

FCC RF Test Report

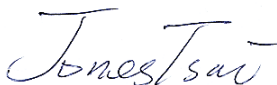
APPLICANT : Telit Communications S.p.A.
EQUIPMENT : Data Card
BRAND NAME : Telit
MODEL NAME : LN930
MARKETING NAME : LN930
FCC ID : RI7LN930
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on May 21, 2013 and completely tested on Oct. 31, 2013. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown 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.



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FCC ID : RI7LN930

Page Number : 1 of 433

Report Issued Date : Nov. 19, 2013

Report Version : Rev. 01



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4) RSS-139(6.4)	Conducted Output Power	Reporting Only	PASS	-
3.2	§24.232(d) 27.53(d)(5)	RSS-133(6.4) RSS-139(6.4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.3	§2.1049 §22.917(a) §24.238(a) §27.53(h)(3)	RSS-GEN(4.6.1) RSS-132 (3.1) RSS-133(3.1) RSS-139 (3.1)	Occupied Bandwidth	Reporting Only	PASS	-
3.4	§2.1049 §22.917(a) §24.238(a) §27.53(c) (g) (h) (m)	RSS-132 (5.5) RSS-133 (6.5.1) RSS-139 (6.5)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 13) (Band 17)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.4	§2.1049 §27.53(m)	-	Conducted Band Edge Measurement (Band 7)	< 43+10log ₁₀ (P[Watts]) < 55+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a) §27.53(c) (g) (h)	RSS-132 (5.5) RSS-133 (6.5.1) RSS-139 (6.5)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 17)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1051 §27.53(m)	-	Conducted Spurious Emission (Band 7)	< 55+10log ₁₀ (P[Watts])	PASS	-



Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.6	§2.1053 §22.917(a) §24.238(a) §27.53(c) (g)(h)	RSS-132 (5.5) RSS-133 (6.5.1) RSS-139 (6.5)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 17)	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 5.34 dB at 5012.000 MHz
3.6	§2.1053 §27.53(m)	-	Radiated Spurious Emission (Band 7)	$< 55+10\log_{10}(P[\text{Watts}])$	PASS	
3.7	§2.1055 §22.355 §24.235 §27.54	RSS-132(5.3) RSS-133(6.3) RSS-139 (6.3)	Frequency Stability Temperature & Voltage	$< 2.5 \text{ ppm}$	PASS	-

1 General Description

1.1 Applicant

Telit Communications S.p.A.

Viale Stazione di Prosecco 5/b, Trieste Italy 34010

1.2 Manufacturer

Foxconn International Holdings Ltd.

No. 4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Data Card
Brand Name	Telit
Model Name	LN930
Marketing Name	LN930
FCC ID	RI7LN930
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The differences between Sample 1 and Sample 2 are as below:
 - (1) Sample 1: EUT with HW version PR3.2; SW version: FIH7160_MODEM_01.1326.00
Sample 2: EUT with HW version PR4.5; SW version: FIH7160_MODEM_01.1338.03
 - (2) Swap auxiliary and main antenna connectors' location.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 7 : 2506.5 MHz ~ 2534.5 MHz and 2556 MHz ~ 2567.5 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz
Rx Frequency	LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 7 : 2626.5MHz ~ 2654.5 MHz and 2676 MHz ~ 2687.5 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz/ 10MHz (Band 5) 1.4MHz / 3MHz / 5MHz/ 10MHz / 15MHz / 20MHz (Band 2) 1.4MHz / 3MHz / 5MHz/ 10MHz / 15MHz / 20MHz (Band 4) 5MHz/ 10MHz / 15MHz / 20MHz (Band 7) 5MHz / 10MHz (Band 13) 5MHz / 10MHz (Band 17)
Maximum Output Power to Antenna	<Sample 1> LTE Band 5 : 23.25 dBm LTE Band 2 : 23.15 dBm LTE Band 4 : 22.83 dBm LTE Band 7 : 23.14 dBm LTE Band 13 : 23.12 dBm LTE Band 17 : 23.32 dBm <Sample 2> LTE Band 5 : 23.22 dBm LTE Band 2 : 22.81 dBm LTE Band 4 : 23.45 dBm LTE Band 7 : 23.30 dBm LTE Band 13 : 23.11 dBm LTE Band 17 : 23.27 dBm
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

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



1.6 Emission Designator

FCC Rule	System	Type of Modulation	BW	Emission Designator	Frequency Tolerance (ppm)
Part 22	LTE Band 5	QPSK	1.4 MHz	1M14G7D	0.007 ppm
Part 22	LTE Band 5	16QAM	1.4 MHz	1M18D7W	0.007 ppm
Part 22	LTE Band 5	QPSK	3 MHz	2M73G7D	0.007 ppm
Part 22	LTE Band 5	16QAM	3 MHz	2M74D7W	0.007 ppm
Part 22	LTE Band 5	QPSK	5 MHz	4M54G7D	0.007 ppm
Part 22	LTE Band 5	16QAM	5 MHz	4M50D7W	0.008 ppm
Part 22	LTE Band 5	QPSK	10 MHz	9M13G7D	0.007 ppm
Part 22	LTE Band 5	16QAM	10 MHz	9M07D7W	0.007 ppm
Part 24	LTE Band 2	QPSK	1.4 MHz	1M12G7D	0.003 ppm
Part 24	LTE Band 2	16QAM	1.4 MHz	1M14D7W	0.003 ppm
Part 24	LTE Band 2	QPSK	3 MHz	2M73G7D	0.004 ppm
Part 24	LTE Band 2	16QAM	3 MHz	2M74D7W	0.003 ppm
Part 24	LTE Band 2	QPSK	5 MHz	4M52G7D	0.004 ppm
Part 24	LTE Band 2	16QAM	5 MHz	4M52D7W	0.004 ppm
Part 24	LTE Band 2	QPSK	10 MHz	9M13G7D	0.003 ppm
Part 24	LTE Band 2	16QAM	10 MHz	9M10D7W	0.003 ppm
Part 24	LTE Band 2	QPSK	15 MHz	13M6G7D	0.003 ppm
Part 24	LTE Band 2	16QAM	15 MHz	13M6D7W	0.003 ppm
Part 24	LTE Band 2	QPSK	20 MHz	18M8G7D	0.004 ppm
Part 24	LTE Band 2	16QAM	20 MHz	18M8D7W	0.003 ppm



FCC Rule	System	Type of Modulation	BW	Emission Designator	Frequency Tolerance (% , Hz, ppm)
Part 27	LTE Band 4	QPSK	1.4 MHz	1M17G7D	0.003 ppm
Part 27	LTE Band 4	16QAM	1.4 MHz	1M13D7W	0.003 ppm
Part 27	LTE Band 4	QPSK	3 MHz	2M75G7D	0.004 ppm
Part 27	LTE Band 4	16QAM	3 MHz	2M75D7W	0.004 ppm
Part 27	LTE Band 4	QPSK	5MHz	4M56G7D	0.003 ppm
Part 27	LTE Band 4	16QAM	5MHz	4M54D7W	0.004 ppm
Part 27	LTE Band 4	QPSK	10MHz	9M20G7D	0.004 ppm
Part 27	LTE Band 4	16QAM	10MHz	9M16D7W	0.003 ppm
Part 27	LTE Band 4	QPSK	15MHz	13M6G7D	0.004 ppm
Part 27	LTE Band 4	16QAM	15MHz	13M6D7W	0.003 ppm
Part 27	LTE Band 4	QPSK	20MHz	18M8G7D	0.003 ppm
Part 27	LTE Band 4	16QAM	20MHz	18M9D7W	0.003 ppm
Part 27	LTE Band 7	QPSK	5MHz	4M55G7D	0.003 ppm
Part 27	LTE Band 7	16QAM	5MHz	4M52D7W	0.003 ppm
Part 27	LTE Band 7	QPSK	10MHz	9M23G7D	0.003 ppm
Part 27	LTE Band 7	16QAM	10MHz	9M13D7W	0.003 ppm
Part 27	LTE Band 7	QPSK	15MHz	13M6G7D	0.003 ppm
Part 27	LTE Band 7	16QAM	15MHz	13M6D7W	0.003 ppm
Part 27	LTE Band 7	QPSK	20MHz	18M1G7D	0.003 ppm
Part 27	LTE Band 7	16QAM	20MHz	18M1D7W	0.003 ppm
Part 27	LTE Band 13	QPSK	5MHz	4M54G7D	0.007 ppm
Part 27	LTE Band 13	16QAM	5MHz	4M52D7W	0.008 ppm
Part 27	LTE Band 13	QPSK	10MHz	9M20G7D	0.007 ppm
Part 27	LTE Band 13	16QAM	10MHz	9M13D7W	0.008 ppm
Part 27	LTE Band 17	QPSK	5MHz	4M54G7D	0.009 ppm
Part 27	LTE Band 17	16QAM	5MHz	4M50D7W	0.009 ppm
Part 27	LTE Band 17	QPSK	10MHz	9M17G7D	0.007 ppm
Part 27	LTE Band 17	16QAM	10MHz	9M10D7W	0.008 ppm

1.7 Testing Site

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.		FCC/IC Registration No.
	TH02-HY	03CH07-HY	722060/4086B-1

1.8 Applied 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

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.

Frequency range investigated for radiated emission: 30MHz to 10th harmonic.

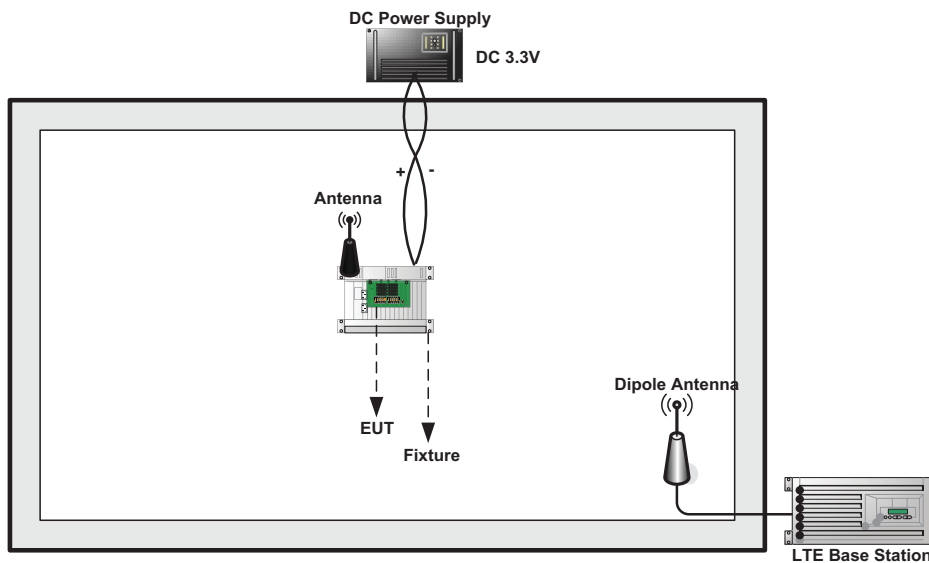
Test Modes				
Band			Radiated TCs	Conducted TCs
LTE Band 5	BW 1.4MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 3) Link for Sample 1 ■ LTE (RB Size 6) Link for Sample 1
	BW 3MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 8) Link for Sample 1 ■ LTE (RB Size 15) Link for Sample 1
	BW 5MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 12) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1
	BW 10MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1 ■ LTE (RB Size 50) Link for Sample 1
LTE Band 2	BW 1.4MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 3) Link for Sample 1 ■ LTE (RB Size 6) Link for Sample 1
	BW 3MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 8) Link for Sample 1 ■ LTE (RB Size 15) Link for Sample 1
	BW 5MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 12) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1
	BW 10MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1 ■ LTE (RB Size 50) Link for Sample 1
	BW 15MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 36) Link for Sample 1 ■ LTE (RB Size 75) Link for Sample 1
	BW 20MHz	■ LTE (RB Size 1) Link for Sample 1	■ LTE (RB Size 1) Link for Sample 1	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 50) Link for Sample 1 ■ LTE (RB Size 100) Link for Sample 1



Test Modes			
Band			
	Radiated TCs	Conducted TCs	
LTE Band 4	BW 1.4MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 3) Link for Sample 1 ■ LTE (RB Size 6) Link for Sample 1
	BW 3MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 1) Link for Sample 2 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 8) Link for Sample 1 ■ LTE (RB Size 15) Link for Sample 1
	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 12) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1 ■ LTE (RB Size 50) Link for Sample 1
	BW 15MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 36) Link for Sample 1 ■ LTE (RB Size 75) Link for Sample 1
	BW 20MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 50) Link for Sample 1 ■ LTE (RB Size 100) Link for Sample 1
LTE Band 7	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 1) Link for Sample 2 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 12) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1 ■ LTE (RB Size 50) Link for Sample 1
	BW 15MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 36) Link for Sample 1 ■ LTE (RB Size 75) Link for Sample 1
	BW 20MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 50) Link for Sample 1 ■ LTE (RB Size 100) Link for Sample 1

Test Modes			
LTE Band 13	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 12) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 1) Link for Sample 2 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1 ■ LTE (RB Size 50) Link for Sample 1
LTE Band 17	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 12) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 1) Link for Sample 2 	<ul style="list-style-type: none"> ■ LTE (RB Size 1) Link for Sample 1 ■ LTE (RB Size 25) Link for Sample 1 ■ LTE (RB Size 50) Link for Sample 1

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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Fixture	INTEL	NGFF Card Carrier	N/A	N/A	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 :

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

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. 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 base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.

3.1.4 Test Setup





3.1.5 Test Result of Conducted Output Power

<LTE Band 5 Conducted Power>

<Sample 1>

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	QPSK	1	0	22.83	23.25	22.91
10	QPSK	1	24	22.57	22.85	22.44
10	QPSK	1	49	23.20	22.84	22.95
10	QPSK	25	0	22.62	23.08	22.62
10	QPSK	25	12	22.58	22.86	22.41
10	QPSK	25	24	22.94	22.86	22.86
10	QPSK	50	0	22.69	23.12	22.80
10	16QAM	1	0	22.15	22.51	22.32
10	16QAM	1	24	22.01	22.21	21.73
10	16QAM	1	49	22.54	22.19	22.35
10	16QAM	25	0	21.80	22.28	21.90
10	16QAM	25	12	21.58	21.89	21.76
10	16QAM	25	24	22.05	21.95	22.12
10	16QAM	50	0	21.84	22.11	22.08
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.67	22.99	22.64
5	QPSK	1	12	23.02	23.21	23.14
5	QPSK	1	24	22.88	22.60	22.51
5	QPSK	12	0	22.87	23.18	22.80
5	QPSK	12	6	22.98	23.20	22.89
5	QPSK	12	11	23.00	22.98	22.90
5	QPSK	25	0	22.85	22.98	22.74
5	16QAM	1	0	21.78	22.26	21.85
5	16QAM	1	12	22.23	22.41	22.41
5	16QAM	1	24	22.10	21.85	21.82
5	16QAM	12	0	21.90	22.38	22.05
5	16QAM	12	6	21.93	22.38	22.26
5	16QAM	12	11	22.17	22.11	22.25
5	16QAM	25	0	21.98	22.15	22.15



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.64	23.12	22.65
3	QPSK	1	7	23.04	23.22	22.84
3	QPSK	1	14	22.62	22.62	22.24
3	QPSK	8	0	22.83	23.11	22.75
3	QPSK	8	4	22.76	23.05	22.79
3	QPSK	8	7	22.71	22.86	22.73
3	QPSK	15	0	22.70	22.92	22.70
3	16QAM	1	0	21.81	22.28	21.94
3	16QAM	1	7	22.20	22.46	22.32
3	16QAM	1	14	21.78	21.79	21.73
3	16QAM	8	0	21.76	22.24	22.04
3	16QAM	8	4	21.79	22.18	22.08
3	16QAM	8	7	21.76	21.94	21.98
3	16QAM	15	0	21.81	22.04	21.93
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.37	22.85	22.57
1.4	QPSK	1	2	22.58	22.89	22.69
1.4	QPSK	1	5	22.17	22.57	22.17
1.4	QPSK	3	0	22.36	22.79	22.60
1.4	QPSK	3	1	22.48	22.82	22.54
1.4	QPSK	3	2	22.55	22.76	22.34
1.4	QPSK	6	0	22.48	22.69	22.33
1.4	16QAM	1	0	21.87	22.22	22.00
1.4	16QAM	1	2	22.14	22.39	22.18
1.4	16QAM	1	5	21.85	22.00	21.63
1.4	16QAM	3	0	21.74	22.17	21.97
1.4	16QAM	3	1	21.80	22.29	21.94
1.4	16QAM	3	2	21.89	22.24	21.75
1.4	16QAM	6	0	21.87	22.25	21.78



<Sample 2>

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	QPSK	1	0	22.74	23.22	22.78
10	QPSK	1	24	22.49	22.74	22.31
10	QPSK	1	49	23.11	22.76	22.76
10	QPSK	25	0	22.59	22.94	22.45
10	QPSK	25	12	22.56	22.71	22.33
10	QPSK	25	24	22.90	22.76	22.71
10	QPSK	50	0	22.61	23.11	22.70
10	16QAM	1	0	22.11	22.47	22.19
10	16QAM	1	24	21.98	22.17	21.67
10	16QAM	1	49	22.47	22.15	22.19
10	16QAM	25	0	21.65	22.19	21.77
10	16QAM	25	12	21.44	21.74	21.60
10	16QAM	25	24	21.99	21.76	22.03
10	16QAM	50	0	21.76	22.03	22.04
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.48	22.79	22.61
5	QPSK	1	12	22.01	23.11	23.04
5	QPSK	1	24	22.76	22.58	22.47
5	QPSK	12	0	22.77	23.02	22.74
5	QPSK	12	6	22.80	23.09	22.83
5	QPSK	12	11	22.91	22.88	22.74
5	QPSK	25	0	22.83	22.91	22.65
5	16QAM	1	0	21.69	22.09	21.80
5	16QAM	1	12	22.14	22.40	22.36
5	16QAM	1	24	22.06	21.81	21.79
5	16QAM	12	0	21.79	22.34	22.00
5	16QAM	12	6	21.77	22.31	22.13
5	16QAM	12	11	22.04	22.01	22.11
5	16QAM	25	0	21.86	22.06	22.12



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.47	23.11	22.48
3	QPSK	1	7	23.01	23.20	22.66
3	QPSK	1	14	22.49	22.57	22.13
3	QPSK	8	0	22.76	22.99	22.59
3	QPSK	8	4	22.68	22.97	22.71
3	QPSK	8	7	22.70	22.76	22.64
3	QPSK	15	0	22.64	22.91	22.59
3	16QAM	1	0	21.73	22.21	21.92
3	16QAM	1	7	22.13	22.40	22.16
3	16QAM	1	14	21.74	21.73	21.60
3	16QAM	8	0	21.65	22.14	21.96
3	16QAM	8	4	21.66	22.16	21.99
3	16QAM	8	7	21.70	21.85	21.86
3	16QAM	15	0	21.64	22.00	21.82
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.31	22.74	22.57
1.4	QPSK	1	2	22.44	22.84	22.62
1.4	QPSK	1	5	22.14	22.49	22.13
1.4	QPSK	3	0	22.29	22.70	22.40
1.4	QPSK	3	1	22.41	22.73	22.51
1.4	QPSK	3	2	22.51	22.61	22.17
1.4	QPSK	6	0	22.39	22.58	22.16
1.4	16QAM	1	0	21.80	22.13	21.98
1.4	16QAM	1	2	22.13	22.29	22.04
1.4	16QAM	1	5	21.80	21.85	21.49
1.4	16QAM	3	0	21.66	21.99	21.83
1.4	16QAM	3	1	21.74	22.14	21.77
1.4	16QAM	3	2	21.69	22.10	21.68
1.4	16QAM	6	0	21.72	22.06	21.65



<LTE Band 2 Conducted Power>

<Sample 1>

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	QPSK	1	0	22.50	22.38	22.12
20	QPSK	1	49	22.55	22.35	22.24
20	QPSK	1	99	21.92	22.16	21.85
20	QPSK	50	0	22.37	22.31	22.01
20	QPSK	50	24	22.34	22.37	22.14
20	QPSK	50	49	22.40	22.19	21.74
20	QPSK	100	0	22.34	22.27	21.85
20	16QAM	1	0	21.74	21.12	20.78
20	16QAM	1	49	21.92	21.68	21.41
20	16QAM	1	99	20.89	20.86	20.62
20	16QAM	50	0	21.41	21.25	21.11
20	16QAM	50	24	21.52	21.30	21.10
20	16QAM	50	49	21.45	21.14	20.81
20	16QAM	100	0	21.38	21.17	20.97
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	21.68	20.94	20.60
15	QPSK	1	37	21.36	21.14	21.15
15	QPSK	1	74	21.08	21.03	20.65
15	QPSK	36	0	21.50	21.06	20.96
15	QPSK	36	18	21.45	21.09	21.13
15	QPSK	36	37	21.29	20.96	20.76
15	QPSK	75	0	21.36	21.13	20.84
15	16QAM	1	0	21.05	20.63	20.13
15	16QAM	1	37	21.05	20.71	20.64
15	16QAM	1	74	20.72	20.20	19.79
15	16QAM	36	0	20.63	20.49	20.30
15	16QAM	36	18	20.70	20.47	20.35
15	16QAM	36	37	20.66	20.25	20.14
15	16QAM	75	0	20.59	20.33	20.20



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	23.15	22.24	21.99
10	QPSK	1	24	22.56	21.61	21.32
10	QPSK	1	49	22.50	21.99	21.82
10	QPSK	25	0	22.72	22.17	21.79
10	QPSK	25	12	22.56	21.84	21.30
10	QPSK	25	24	22.56	22.07	21.57
10	QPSK	50	0	22.70	22.05	21.68
10	16QAM	1	0	22.45	21.40	21.15
10	16QAM	1	24	22.32	20.87	20.34
10	16QAM	1	49	21.73	21.25	21.33
10	16QAM	25	0	21.77	21.05	20.76
10	16QAM	25	12	21.49	20.81	20.38
10	16QAM	25	24	21.72	20.99	20.74
10	16QAM	50	0	22.04	21.04	20.83
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.70	21.34	21.06
5	QPSK	1	12	22.40	21.77	21.38
5	QPSK	1	24	22.16	21.23	20.74
5	QPSK	12	0	22.62	21.66	21.23
5	QPSK	12	6	22.39	21.72	21.32
5	QPSK	12	11	22.14	21.71	21.20
5	QPSK	25	0	22.17	21.62	21.17
5	16QAM	1	0	21.67	20.57	20.30
5	16QAM	1	12	21.74	20.99	20.73
5	16QAM	1	24	21.16	20.46	20.19
5	16QAM	12	0	21.55	20.61	20.37
5	16QAM	12	6	21.38	20.69	20.45
5	16QAM	12	11	21.20	20.58	20.40
5	16QAM	25	0	21.24	20.57	20.28



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.42	20.85	20.64
3	QPSK	1	7	22.34	21.21	20.86
3	QPSK	1	14	21.89	20.74	20.34
3	QPSK	8	0	22.31	21.04	20.73
3	QPSK	8	4	22.14	21.09	20.67
3	QPSK	8	7	21.74	20.99	20.58
3	QPSK	15	0	21.74	21.03	20.65
3	16QAM	1	0	21.30	20.23	20.14
3	16QAM	1	7	21.41	20.70	20.50
3	16QAM	1	14	20.99	20.25	19.98
3	16QAM	8	0	21.34	20.27	20.18
3	16QAM	8	4	21.20	20.40	20.14
3	16QAM	8	7	21.05	20.31	20.03
3	16QAM	15	0	21.06	20.32	20.05
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	21.99	20.74	20.21
1.4	QPSK	1	2	22.07	21.00	20.50
1.4	QPSK	1	5	21.56	20.64	20.18
1.4	QPSK	3	0	21.92	20.91	20.36
1.4	QPSK	3	1	21.96	20.99	20.41
1.4	QPSK	3	2	21.85	20.97	20.43
1.4	QPSK	6	0	21.78	20.89	20.28
1.4	16QAM	1	0	21.18	20.25	19.79
1.4	16QAM	1	2	21.34	20.54	20.20
1.4	16QAM	1	5	20.90	20.22	20.00
1.4	16QAM	3	0	21.01	20.07	19.91
1.4	16QAM	3	1	21.10	20.14	19.98
1.4	16QAM	3	2	21.13	20.14	20.03
1.4	16QAM	6	0	21.11	20.10	19.92



<Sample 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	QPSK	1	0	22.46	22.19	22.03
20	QPSK	1	49	22.54	22.27	22.15
20	QPSK	1	99	21.88	22.08	21.73
20	QPSK	50	0	22.30	22.19	21.89
20	QPSK	50	24	22.19	22.23	21.99
20	QPSK	50	49	22.31	22.04	21.58
20	QPSK	100	0	22.06	22.11	21.66
20	16QAM	1	0	21.66	21.03	20.64
20	16QAM	1	49	21.90	21.49	21.23
20	16QAM	1	99	20.81	20.62	20.44
20	16QAM	50	0	21.32	20.74	20.95
20	16QAM	50	24	21.44	21.14	20.92
20	16QAM	50	49	21.29	21.03	20.76
20	16QAM	100	0	21.20	21.00	20.79
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	21.59	20.79	20.43
15	QPSK	1	37	21.28	21.03	21.05
15	QPSK	1	74	21.00	20.94	20.49
15	QPSK	36	0	21.48	20.89	20.87
15	QPSK	36	18	21.44	21.03	21.02
15	QPSK	36	37	21.22	20.78	20.70
15	QPSK	75	0	21.31	20.99	20.74
15	16QAM	1	0	21.04	20.54	19.98
15	16QAM	1	37	21.00	20.66	20.45
15	16QAM	1	74	20.71	20.11	19.72
15	16QAM	36	0	20.52	20.43	20.15
15	16QAM	36	18	20.58	20.35	20.31
15	16QAM	36	37	20.49	20.11	20.05
15	16QAM	75	0	20.39	20.15	20.13



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.81	22.11	21.79
10	QPSK	1	24	22.47	21.49	21.30
10	QPSK	1	49	22.38	21.79	21.74
10	QPSK	25	0	22.59	22.06	21.66
10	QPSK	25	12	22.41	21.74	21.14
10	QPSK	25	24	22.50	21.89	21.42
10	QPSK	50	0	22.61	21.88	21.60
10	16QAM	1	0	22.31	21.29	21.13
10	16QAM	1	24	22.30	20.79	20.33
10	16QAM	1	49	21.70	21.14	21.30
10	16QAM	25	0	21.64	20.99	20.64
10	16QAM	25	12	21.37	20.68	20.20
10	16QAM	25	24	21.66	20.82	20.71
10	16QAM	50	0	22.01	21.01	20.81
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.52	21.26	20.99
5	QPSK	1	12	22.31	21.65	21.19
5	QPSK	1	24	21.99	21.15	20.71
5	QPSK	12	0	22.48	21.49	21.13
5	QPSK	12	6	22.34	21.58	21.22
5	QPSK	12	11	22.11	21.60	21.06
5	QPSK	25	0	22.13	21.43	21.11
5	16QAM	1	0	21.58	20.44	20.24
5	16QAM	1	12	21.55	20.80	20.59
5	16QAM	1	24	21.14	20.29	20.14
5	16QAM	12	0	21.41	20.45	20.33
5	16QAM	12	6	21.28	20.51	20.41
5	16QAM	12	11	21.05	20.39	20.32
5	16QAM	25	0	21.12	20.44	20.09



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.41	20.72	20.49
3	QPSK	1	7	22.30	21.13	20.77
3	QPSK	1	14	21.77	20.58	20.31
3	QPSK	8	0	22.24	20.85	20.70
3	QPSK	8	4	22.12	20.97	20.58
3	QPSK	8	7	21.58	20.80	20.52
3	QPSK	15	0	21.63	20.91	20.61
3	16QAM	1	0	21.27	20.17	20.07
3	16QAM	1	7	21.30	20.64	20.39
3	16QAM	1	14	20.84	20.15	19.90
3	16QAM	8	0	21.22	20.16	20.11
3	16QAM	8	4	21.05	20.23	20.03
3	16QAM	8	7	21.01	20.17	19.97
3	16QAM	15	0	20.99	20.13	19.99
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	21.84	20.62	20.04
1.4	QPSK	1	2	22.00	20.89	20.39
1.4	QPSK	1	5	21.42	20.49	20.04
1.4	QPSK	3	0	21.76	20.72	20.23
1.4	QPSK	3	1	21.77	20.81	20.35
1.4	QPSK	3	2	21.77	20.88	20.34
1.4	QPSK	6	0	21.62	20.80	20.11
1.4	16QAM	1	0	21.10	20.07	19.68
1.4	16QAM	1	2	21.27	20.39	20.13
1.4	16QAM	1	5	20.77	20.05	19.85
1.4	16QAM	3	0	20.86	20.00	19.76
1.4	16QAM	3	1	20.97	19.98	19.82
1.4	16QAM	3	2	21.03	20.02	20.01
1.4	16QAM	6	0	21.07	19.99	19.84



<LTE Band 4 Conducted Power>

<Sample 1>

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	22.12	22.52	22.05
20	QPSK	1	49	22.66	22.83	22.60
20	QPSK	1	99	22.03	22.23	22.01
20	QPSK	50	0	22.47	22.58	22.59
20	QPSK	50	24	22.65	22.74	22.57
20	QPSK	50	49	22.65	22.54	22.15
20	QPSK	100	0	22.54	22.54	22.51
20	16QAM	1	0	21.38	21.85	21.46
20	16QAM	1	49	21.85	22.01	21.80
20	16QAM	1	99	21.50	21.80	21.35
20	16QAM	50	0	21.33	21.52	21.74
20	16QAM	50	24	21.53	21.79	21.59
20	16QAM	50	49	21.52	21.76	21.30
20	16QAM	100	0	21.46	21.67	21.53
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.30	22.15	22.58
15	QPSK	1	37	22.45	22.64	22.44
15	QPSK	1	74	22.02	22.02	22.00
15	QPSK	36	0	22.24	22.47	22.57
15	QPSK	36	18	22.35	22.63	22.52
15	QPSK	36	37	22.27	22.63	22.30
15	QPSK	75	0	22.25	22.59	22.52
15	16QAM	1	0	21.41	21.64	21.89
15	16QAM	1	37	21.74	22.23	21.76
15	16QAM	1	74	21.38	21.72	21.22
15	16QAM	36	0	21.34	21.83	21.69
15	16QAM	36	18	21.50	21.95	21.56
15	16QAM	36	37	21.46	21.80	21.33
15	16QAM	75	0	21.47	21.87	21.57



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	22.59	22.38	22.37
10	QPSK	1	24	22.11	22.00	22.02
10	QPSK	1	49	22.19	22.41	22.25
10	QPSK	25	0	22.17	22.25	22.23
10	QPSK	25	12	22.00	22.03	22.00
10	QPSK	25	24	22.03	22.29	22.16
10	QPSK	50	0	22.08	22.26	22.24
10	16QAM	1	0	21.99	21.84	21.64
10	16QAM	1	24	21.06	21.35	21.07
10	16QAM	1	49	21.78	22.07	21.60
10	16QAM	25	0	21.52	21.66	21.31
10	16QAM	25	12	21.15	21.47	21.08
10	16QAM	25	24	21.51	21.70	21.23
10	16QAM	50	0	21.48	21.70	21.30
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.38	22.17	22.06
5	QPSK	1	12	22.45	22.55	22.37
5	QPSK	1	24	22.01	22.08	22.07
5	QPSK	12	0	22.40	22.39	22.25
5	QPSK	12	6	22.38	22.46	22.35
5	QPSK	12	11	22.21	22.46	22.31
5	QPSK	25	0	22.26	22.32	22.32
5	16QAM	1	0	21.57	21.57	21.30
5	16QAM	1	12	21.65	22.00	21.64
5	16QAM	1	24	21.15	21.49	21.28
5	16QAM	12	0	21.46	21.65	21.33
5	16QAM	12	6	21.42	21.74	21.40
5	16QAM	12	11	21.25	21.75	21.31
5	16QAM	25	0	21.30	21.78	21.28



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	22.55	22.29	22.11
3	QPSK	1	7	22.69	22.60	22.40
3	QPSK	1	14	22.04	22.24	22.09
3	QPSK	8	0	22.36	22.41	22.19
3	QPSK	8	4	22.30	22.47	22.27
3	QPSK	8	7	22.20	22.42	22.14
3	QPSK	15	0	22.25	22.33	22.13
3	16QAM	1	0	21.48	21.63	21.28
3	16QAM	1	7	21.66	21.99	21.56
3	16QAM	1	14	21.28	21.66	21.24
3	16QAM	8	0	21.57	21.66	21.28
3	16QAM	8	4	21.54	21.69	21.37
3	16QAM	8	7	21.45	21.68	21.26
3	16QAM	15	0	21.46	21.62	21.21
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.31	22.32	22.05
1.4	QPSK	1	2	22.51	22.51	22.27
1.4	QPSK	1	5	22.21	22.23	22.03
1.4	QPSK	3	0	22.37	22.32	22.13
1.4	QPSK	3	1	22.43	22.41	22.17
1.4	QPSK	3	2	22.41	22.40	22.21
1.4	QPSK	6	0	22.29	22.27	22.11
1.4	16QAM	1	0	21.61	21.70	21.25
1.4	16QAM	1	2	21.82	21.98	21.49
1.4	16QAM	1	5	21.50	21.74	21.25
1.4	16QAM	3	0	21.57	21.58	21.22
1.4	16QAM	3	1	21.58	21.69	21.29
1.4	16QAM	3	2	21.59	21.71	21.33
1.4	16QAM	6	0	21.53	21.67	21.30



<Sample 2>

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	22.04	22.44	22.01
20	QPSK	1	49	22.49	22.79	22.55
20	QPSK	1	99	21.94	22.18	22.00
20	QPSK	50	0	22.28	22.44	22.47
20	QPSK	50	24	22.48	22.60	22.50
20	QPSK	50	49	22.51	22.43	22.13
20	QPSK	100	0	22.41	22.38	22.47
20	16QAM	1	0	21.30	21.79	21.40
20	16QAM	1	49	21.67	21.95	21.75
20	16QAM	1	99	21.44	21.70	21.31
20	16QAM	50	0	21.30	21.44	21.66
20	16QAM	50	24	21.41	21.73	21.50
20	16QAM	50	49	21.47	21.64	21.28
20	16QAM	100	0	21.40	21.62	21.44
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.17	22.11	23.45
15	QPSK	1	37	22.30	22.49	22.42
15	QPSK	1	74	22.01	22.00	23.08
15	QPSK	36	0	22.28	22.38	22.10
15	QPSK	36	18	22.31	22.44	21.71
15	QPSK	36	37	22.21	22.47	21.86
15	QPSK	75	0	22.19	22.41	22.02
15	16QAM	1	0	21.38	21.60	21.76
15	16QAM	1	37	21.59	22.23	21.61
15	16QAM	1	74	21.30	21.70	21.13
15	16QAM	36	0	21.33	21.90	21.51
15	16QAM	36	18	21.47	21.88	21.44
15	16QAM	36	37	21.40	21.79	21.19
15	16QAM	75	0	21.44	21.83	21.50



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	22.51	22.31	22.29
10	QPSK	1	24	22.03	21.91	21.97
10	QPSK	1	49	22.09	22.37	22.17
10	QPSK	25	0	22.10	21.96	22.13
10	QPSK	25	12	21.98	21.88	21.96
10	QPSK	25	24	21.90	22.21	22.11
10	QPSK	50	0	21.99	22.17	22.10
10	16QAM	1	0	21.88	21.77	21.59
10	16QAM	1	24	20.97	21.30	21.03
10	16QAM	1	49	21.75	21.89	21.54
10	16QAM	25	0	21.44	21.55	21.22
10	16QAM	25	12	21.09	21.40	21.06
10	16QAM	25	24	21.38	21.63	21.22
10	16QAM	50	0	21.40	21.65	21.24
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.21	22.13	22.04
5	QPSK	1	12	22.31	22.34	22.26
5	QPSK	1	24	21.97	22.03	22.00
5	QPSK	12	0	22.28	22.19	22.21
5	QPSK	12	6	22.19	22.40	22.19
5	QPSK	12	11	22.13	22.41	22.16
5	QPSK	25	0	22.09	22.13	22.11
5	16QAM	1	0	21.44	21.44	21.18
5	16QAM	1	12	21.49	21.96	21.49
5	16QAM	1	24	21.08	21.44	21.11
5	16QAM	12	0	21.29	21.59	21.26
5	16QAM	12	6	21.28	21.66	21.23
5	16QAM	12	11	21.20	21.67	21.18
5	16QAM	25	0	21.27	21.70	21.25



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	22.41	22.14	22.07
3	QPSK	1	7	22.60	22.41	22.27
3	QPSK	1	14	22.01	22.14	22.06
3	QPSK	8	0	22.33	22.34	22.07
3	QPSK	8	4	22.18	22.39	22.14
3	QPSK	8	7	22.16	22.26	22.03
3	QPSK	15	0	22.19	22.17	22.00
3	16QAM	1	0	21.40	21.44	21.09
3	16QAM	1	7	21.66	21.87	21.44
3	16QAM	1	14	21.23	21.59	21.16
3	16QAM	8	0	21.44	21.50	21.27
3	16QAM	8	4	21.48	21.58	21.31
3	16QAM	8	7	21.33	21.63	21.09
3	16QAM	15	0	21.40	21.55	21.14
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.21	22.17	22.03
1.4	QPSK	1	2	22.43	22.47	22.14
1.4	QPSK	1	5	22.11	22.14	21.99
1.4	QPSK	3	0	22.19	22.16	21.97
1.4	QPSK	3	1	22.29	22.19	22.02
1.4	QPSK	3	2	22.25	22.33	22.11
1.4	QPSK	6	0	22.25	22.15	22.04
1.4	16QAM	1	0	21.52	21.51	21.13
1.4	16QAM	1	2	21.77	21.79	21.44
1.4	16QAM	1	5	21.38	21.70	21.20
1.4	16QAM	3	0	21.42	21.55	21.15
1.4	16QAM	3	1	21.50	21.63	21.17
1.4	16QAM	3	2	21.44	21.70	21.20
1.4	16QAM	6	0	21.39	21.64	21.29



<LTE Band 7 Conducted Power>

<Sample 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20890	21020	
Frequency (MHz)				2514	2527	
20	QPSK	1	0	22.62	22.05	
20	QPSK	1	49	23.14	22.63	
20	QPSK	1	99	22.56	22.05	
20	QPSK	50	0	22.91	22.50	
20	QPSK	50	24	22.97	22.59	
20	QPSK	50	49	22.98	22.39	
20	QPSK	100	0	22.85	22.34	
20	16QAM	1	0	21.57	21.15	
20	16QAM	1	49	22.08	22.30	
20	16QAM	1	99	21.66	21.46	
20	16QAM	50	0	21.77	21.54	
20	16QAM	50	24	21.88	21.91	
20	16QAM	50	49	21.77	21.68	
20	16QAM	100	0	21.78	21.71	
Channel				20865	21045	21375
Frequency (MHz)				2511.5	2529.5	2562.5
15	QPSK	1	0	22.32	22.28	22.10
15	QPSK	1	37	23.02	22.66	22.54
15	QPSK	1	74	22.35	22.03	22.01
15	QPSK	36	0	22.72	22.48	22.48
15	QPSK	36	18	22.82	22.56	22.48
15	QPSK	36	37	22.56	22.42	22.17
15	QPSK	75	0	22.58	22.34	22.33
15	16QAM	1	0	21.58	21.21	21.57
15	16QAM	1	37	22.13	21.96	21.91
15	16QAM	1	74	21.48	21.36	21.21
15	16QAM	36	0	21.68	21.53	21.65
15	16QAM	36	18	21.80	21.58	21.67
15	16QAM	36	37	21.59	21.42	21.51
15	16QAM	75	0	21.58	21.36	21.59



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20840	21070	21400
Frequency (MHz)				2509	2532	2565
10	QPSK	1	0	22.65	22.64	22.64
10	QPSK	1	24	22.20	22.07	22.11
10	QPSK	1	49	22.57	22.39	22.10
10	QPSK	25	0	22.55	22.31	22.33
10	QPSK	25	12	22.27	22.07	22.02
10	QPSK	25	24	22.45	22.17	22.03
10	QPSK	50	0	22.49	22.00	22.15
10	16QAM	1	0	21.46	21.66	21.82
10	16QAM	1	24	21.10	21.29	21.34
10	16QAM	1	49	21.57	21.72	21.57
10	16QAM	25	0	21.44	21.49	21.58
10	16QAM	25	12	21.15	21.17	21.23
10	16QAM	25	24	21.34	21.40	21.40
10	16QAM	50	0	21.35	21.35	21.46
Channel				20815	21095	21425
Frequency (MHz)				2506.5	2534.5	2567.5
5	QPSK	1	0	22.39	22.37	22.56
5	QPSK	1	12	22.96	22.56	22.75
5	QPSK	1	24	22.56	22.14	22.10
5	QPSK	12	0	22.62	22.38	22.45
5	QPSK	12	6	22.80	22.44	22.45
5	QPSK	12	11	22.75	22.37	22.36
5	QPSK	25	0	22.59	22.37	22.31
5	16QAM	1	0	21.59	21.48	21.85
5	16QAM	1	12	21.97	21.82	22.24
5	16QAM	1	24	21.59	21.42	21.73
5	16QAM	12	0	21.67	21.49	21.90
5	16QAM	12	6	21.88	21.56	21.97
5	16QAM	12	11	21.84	21.51	21.84
5	16QAM	25	0	21.65	21.44	21.83



<Sample 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20890	21020	
Frequency (MHz)				2514	2527	
20	QPSK	1	0	22.49	22.04	
20	QPSK	1	49	23.11	22.61	
20	QPSK	1	99	22.47	22.00	
20	QPSK	50	0	22.76	22.43	
20	QPSK	50	24	22.81	22.51	
20	QPSK	50	49	22.90	22.33	
20	QPSK	100	0	22.73	22.21	
20	16QAM	1	0	21.44	21.13	
20	16QAM	1	49	22.08	22.16	
20	16QAM	1	99	21.60	21.42	
20	16QAM	50	0	21.72	21.46	
20	16QAM	50	24	21.77	21.80	
20	16QAM	50	49	21.68	21.49	
20	16QAM	100	0	21.75	21.66	
Channel				20865	21045	21375
Frequency (MHz)				2511.5	2529.5	2562.5
15	QPSK	1	0	22.17	22.21	22.07
15	QPSK	1	37	22.95	22.47	22.39
15	QPSK	1	74	22.16	22.00	22.01
15	QPSK	36	0	22.60	22.46	22.44
15	QPSK	36	18	22.71	22.39	22.41
15	QPSK	36	37	22.52	22.41	22.07
15	QPSK	75	0	22.51	22.33	22.26
15	16QAM	1	0	21.46	21.03	21.50
15	16QAM	1	37	22.08	21.88	21.91
15	16QAM	1	74	21.36	21.25	21.13
15	16QAM	36	0	21.49	21.50	21.60
15	16QAM	36	18	21.75	21.51	21.49
15	16QAM	36	37	21.56	21.36	21.44
15	16QAM	75	0	21.43	21.27	21.56



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20840	21070	21400
Frequency (MHz)				2509	2532	2565
10	QPSK	1	0	22.44	22.47	22.48
10	QPSK	1	24	22.17	22.04	21.96
10	QPSK	1	49	22.48	22.28	22.01
10	QPSK	25	0	22.40	22.17	22.26
10	QPSK	25	12	22.17	22.00	22.00
10	QPSK	25	24	22.33	22.01	21.96
10	QPSK	50	0	22.49	21.99	22.02
10	16QAM	1	0	21.46	21.56	21.77
10	16QAM	1	24	21.00	21.17	21.30
10	16QAM	1	49	21.56	21.66	21.40
10	16QAM	25	0	21.43	21.43	21.44
10	16QAM	25	12	21.11	21.00	21.20
10	16QAM	25	24	21.30	21.35	21.33
10	16QAM	50	0	21.28	21.32	21.45
Channel				20815	21095	21425
Frequency (MHz)				2506.5	2534.5	2567.5
5	QPSK	1	0	23.30	22.19	22.46
5	QPSK	1	12	22.87	22.40	22.70
5	QPSK	1	24	22.51	22.06	22.10
5	QPSK	12	0	22.59	22.19	22.44
5	QPSK	12	6	22.74	22.33	22.43
5	QPSK	12	11	22.63	22.30	22.30
5	QPSK	25	0	22.46	22.28	22.19
5	16QAM	1	0	21.45	21.47	21.84
5	16QAM	1	12	21.77	21.81	22.06
5	16QAM	1	24	21.50	21.33	21.70
5	16QAM	12	0	21.66	21.40	21.77
5	16QAM	12	6	21.83	21.50	21.96
5	16QAM	12	11	21.80	21.43	21.76
5	16QAM	25	0	21.61	21.36	21.76



<LTE Band 13 Conducted Power>

<Sample 1>

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	QPSK	1	0		22.98	
10	QPSK	1	24		22.64	
10	QPSK	1	49		23.12	
10	QPSK	25	0		22.98	
10	QPSK	25	12		22.62	
10	QPSK	25	24		22.70	
10	QPSK	50	0		22.76	
10	16QAM	1	0		22.51	
10	16QAM	1	24		21.65	
10	16QAM	1	49		22.73	
10	16QAM	25	0		21.97	
10	16QAM	25	12		21.64	
10	16QAM	25	24		21.73	
10	16QAM	50	0		21.82	
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	22.97	22.72	22.65
5	QPSK	1	12	22.99	22.67	22.75
5	QPSK	1	24	22.80	22.31	22.77
5	QPSK	12	0	22.94	22.62	22.56
5	QPSK	12	6	22.95	22.45	22.58
5	QPSK	12	11	22.91	22.45	22.70
5	QPSK	25	0	22.97	22.57	22.52
5	16QAM	1	0	22.28	22.10	21.86
5	16QAM	1	12	22.55	22.07	22.14
5	16QAM	1	24	22.20	22.03	22.30
5	16QAM	12	0	22.44	22.09	22.04
5	16QAM	12	6	22.23	21.98	21.96
5	16QAM	12	11	22.08	21.97	22.20
5	16QAM	25	0	22.12	21.62	21.95



<Sample 2>

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	QPSK	1	0		22.94	
10	QPSK	1	24		22.60	
10	QPSK	1	49		23.11	
10	QPSK	25	0		22.96	
10	QPSK	25	12		22.57	
10	QPSK	25	24		22.54	
10	QPSK	50	0		22.70	
10	16QAM	1	0		22.50	
10	16QAM	1	24		21.63	
10	16QAM	1	49		22.70	
10	16QAM	25	0		21.88	
10	16QAM	25	12		21.58	
10	16QAM	25	24		21.66	
10	16QAM	50	0		21.76	
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	22.90	22.71	22.49
5	QPSK	1	12	22.79	22.60	22.65
5	QPSK	1	24	22.68	22.28	22.71
5	QPSK	12	0	22.83	22.48	22.44
5	QPSK	12	6	22.77	22.40	22.46
5	QPSK	12	11	22.80	22.41	22.56
5	QPSK	25	0	22.84	22.56	22.40
5	16QAM	1	0	22.20	22.08	21.79
5	16QAM	1	12	22.54	22.00	22.03
5	16QAM	1	24	22.16	21.91	22.17
5	16QAM	12	0	22.37	22.00	21.95
5	16QAM	12	6	22.16	21.86	21.79
5	16QAM	12	11	22.00	21.79	22.03
5	16QAM	25	0	22.12	21.55	21.90



<LTE Band 17 Conducted Power>

<Sample 1>

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	23.00	23.02	23.10
10	QPSK	1	24	22.36	22.49	22.69
10	QPSK	1	49	23.05	23.16	23.32
10	QPSK	25	0	22.97	23.02	23.02
10	QPSK	25	12	22.69	22.87	22.80
10	QPSK	25	24	23.04	23.02	23.27
10	QPSK	50	0	22.95	23.04	23.20
10	16QAM	1	0	22.29	22.30	22.38
10	16QAM	1	24	21.75	21.86	21.83
10	16QAM	1	49	22.54	22.76	22.78
10	16QAM	25	0	22.04	22.01	22.08
10	16QAM	25	12	21.80	21.85	21.85
10	16QAM	25	24	22.16	22.10	22.30
10	16QAM	50	0	22.08	22.21	22.27
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	22.91	22.78	22.77
5	QPSK	1	12	23.30	23.22	23.27
5	QPSK	1	24	22.80	22.79	23.23
5	QPSK	12	0	23.15	22.98	23.02
5	QPSK	12	6	23.28	23.20	23.15
5	QPSK	12	11	23.20	23.18	23.20
5	QPSK	25	0	23.12	23.12	23.09
5	16QAM	1	0	22.21	21.92	22.04
5	16QAM	1	12	22.63	22.57	22.69
5	16QAM	1	24	22.15	22.23	22.49
5	16QAM	12	0	22.22	22.14	22.17
5	16QAM	12	6	22.31	22.33	22.40
5	16QAM	12	11	22.23	22.31	22.64
5	16QAM	25	0	22.25	22.26	22.49



<Sample 2>

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	22.96	22.98	23.01
10	QPSK	1	24	22.19	22.44	22.58
10	QPSK	1	49	23.00	23.10	23.27
10	QPSK	25	0	22.94	22.99	23.00
10	QPSK	25	12	22.65	22.80	22.74
10	QPSK	25	24	22.99	22.97	23.15
10	QPSK	50	0	22.83	23.01	23.11
10	16QAM	1	0	22.16	22.30	22.19
10	16QAM	1	24	21.66	21.81	21.80
10	16QAM	1	49	22.49	22.70	22.76
10	16QAM	25	0	21.93	22.01	22.00
10	16QAM	25	12	21.68	21.72	21.83
10	16QAM	25	24	22.00	22.07	22.24
10	16QAM	50	0	21.99	22.13	22.20
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	22.88	22.73	22.77
5	QPSK	1	12	23.27	23.16	23.25
5	QPSK	1	24	22.71	22.76	23.14
5	QPSK	12	0	23.11	22.89	23.00
5	QPSK	12	6	23.16	23.13	23.08
5	QPSK	12	11	23.14	23.04	23.14
5	QPSK	25	0	23.00	23.07	23.00
5	16QAM	1	0	22.20	21.88	22.01
5	16QAM	1	12	22.61	22.57	22.60
5	16QAM	1	24	22.11	22.16	22.43
5	16QAM	12	0	22.21	22.10	22.04
5	16QAM	12	6	22.27	22.29	22.35
5	16QAM	12	11	22.15	22.17	22.58
5	16QAM	25	0	22.19	22.20	22.40

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.

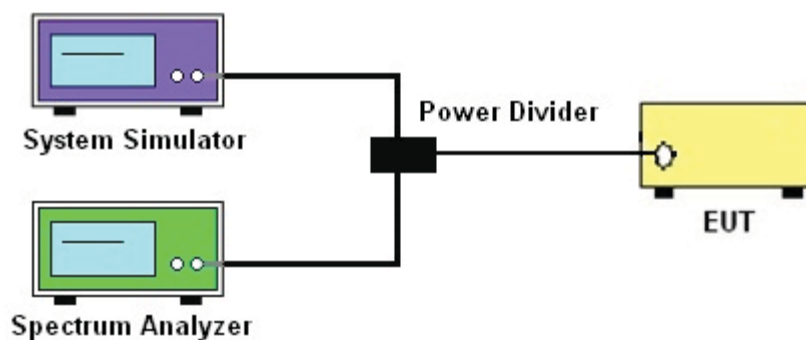
3.2.2 Measuring Instruments

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 Analyzer and Base Station via power divider.
2. For LTE operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
3. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



3.2.5 Test Result of Peak-to-Average Ratio

Modes	LTE Band 5			
BW / Mod.	1.4MHz / QPSK	1.4MHz / 16QAM	3MHz / QPSK	3MHz / 16QAM
Peak-to-Average Ratio (dB)	5.10	5.74	5.45	6.06
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
Peak-to-Average Ratio (dB)	5.35	5.83	5.71	6.03

Modes	LTE Band 2			
BW / Mod.	1.4MHz / QPSK	1.4MHz / 16QAM	3MHz / QPSK	3MHz / 16QAM
Peak-to-Average Ratio (dB)	5.06	5.45	5.48	5.96
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
Peak-to-Average Ratio (dB)	5.32	5.74	5.51	5.87
BW / Mod.	15MHz / QPSK	15MHz / 16QAM	20MHz / QPSK	20MHz / 16QAM
Peak-to-Average Ratio (dB)	5.19	5.58	5.32	5.80

Modes	LTE Band 4			
BW / Mod.	1.4MHz / QPSK	1.4MHz / 16QAM	3MHz / QPSK	3MHz / 16QAM
Peak-to-Average Ratio (dB)	4.87	4.58	5.22	5.32
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
Peak-to-Average Ratio (dB)	4.81	4.74	5.32	5.51
BW / Mod.	15MHz / QPSK	15MHz / 16QAM	20MHz / QPSK	20MHz / 16QAM
Peak-to-Average Ratio (dB)	4.90	5.10	5.06	5.32



Modes	LTE Band 7			
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
Peak-to-Average Ratio (dB)	5.10	5.71	5.54	5.96
BW / Mod.	15MHz / QPSK	15MHz / 16QAM	20MHz / QPSK	20MHz / 16QAM
Peak-to-Average Ratio (dB)	5.10	5.80	5.42	6.03

Modes	LTE Band 13			
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
Peak-to-Average Ratio (dB)	5.19	5.74	5.54	6.09

Modes	LTE Band 17			
BW / Mod.	5MHz / QPSK	5MHz / 16QAM	10MHz / QPSK	10MHz / 16QAM
Peak-to-Average Ratio (dB)	5.48	5.93	5.67	6.09

Note:

The maximum RB configurations of the PAPR summary as below:

BW1.4M RB setting : RB Size 6, RB offset 0

BW3.0M RB setting : RB Size 15, RB offset 0

BW5.0M RB setting : RB Size 25, RB offset 0

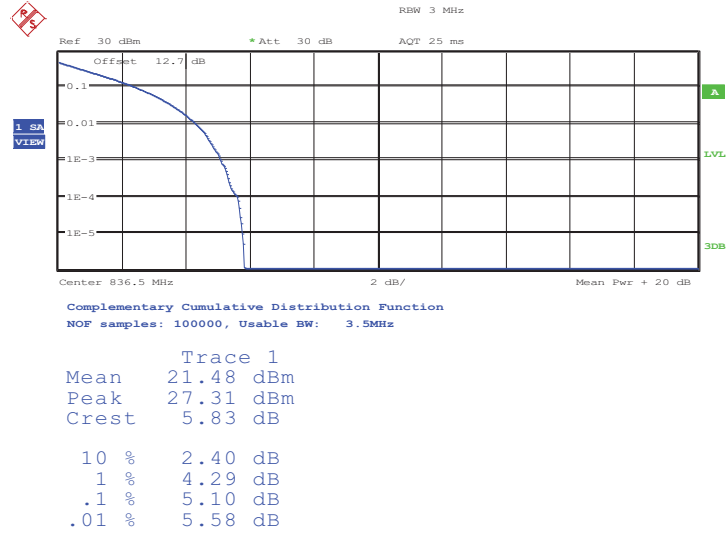
BW10M RB setting : RB Size 50, RB offset 0

BW15M RB setting : RB Size 75, RB offset 0

BW20M RB setting : RB Size 100, RB offset 0

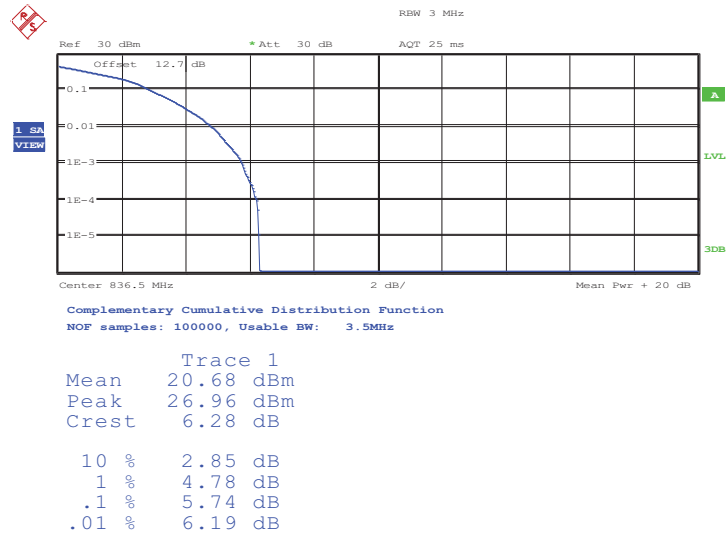
3.2.6 Peak to Average Power Ratio

Peak-to-Average Ratio on LTE Band 5 1.4MHz / QPSK



Date: 17.JUN.2013 14:09:54

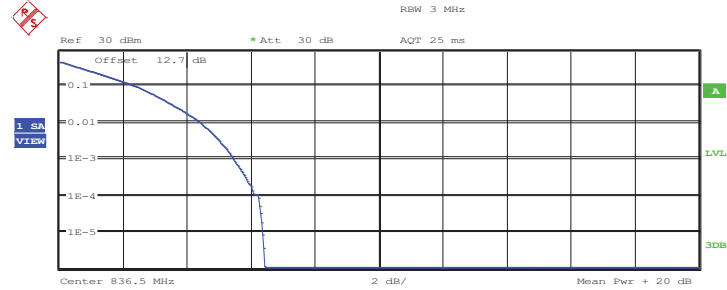
Peak-to-Average Ratio on LTE Band 5 1.4MHz / 16QAM



Date: 17.JUN.2013 14:09:22



Peak-to-Average Ratio on LTE Band 5 3MHz / QPSK

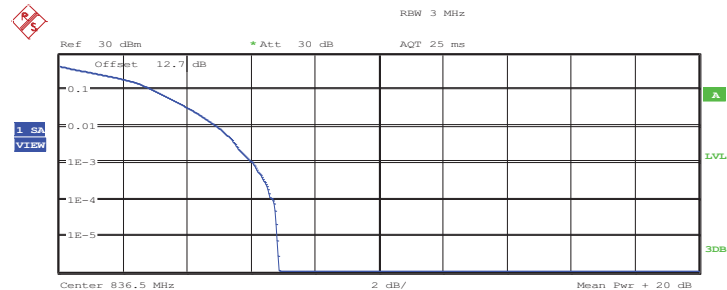


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 3.5MHz

Trace 1	
Mean	21.45 dBm
Peak	27.87 dBm
Crest	6.42 dB
10 %	2.40 dB
1 %	4.39 dB
.1 %	5.45 dB
.01 %	6.22 dB

Date: 17.JUN.2013 14:11:11

Peak-to-Average Ratio on LTE Band 5 3MHz / 16QAM



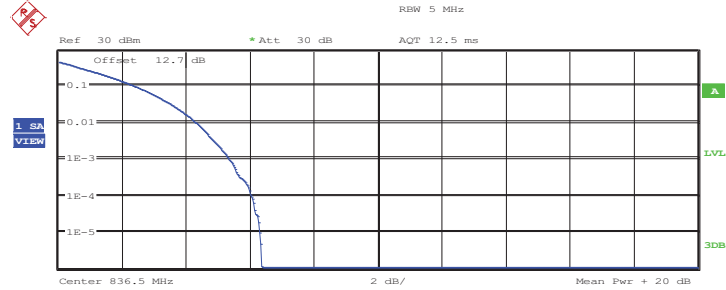
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 3.5MHz

Trace 1	
Mean	20.80 dBm
Peak	27.66 dBm
Crest	6.87 dB
10 %	2.92 dB
1 %	4.94 dB
.1 %	6.06 dB
.01 %	6.70 dB

Date: 17.JUN.2013 14:11:47



Peak-to-Average Ratio on LTE Band 5 5MHz / QPSK

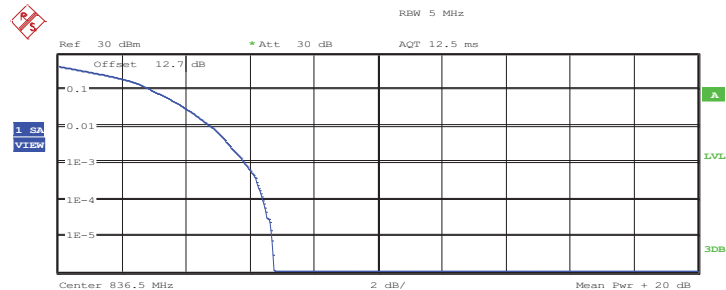


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 7.1MHz

Trace 1	
Mean	21.51 dBm
Peak	27.87 dBm
Crest	6.37 dB
10 %	2.40 dB
1 %	4.29 dB
.1 %	5.35 dB
.01 %	6.03 dB

Date: 17.JUN.2013 14:14:12

Peak-to-Average Ratio on LTE Band 5 5MHz / 16QAM



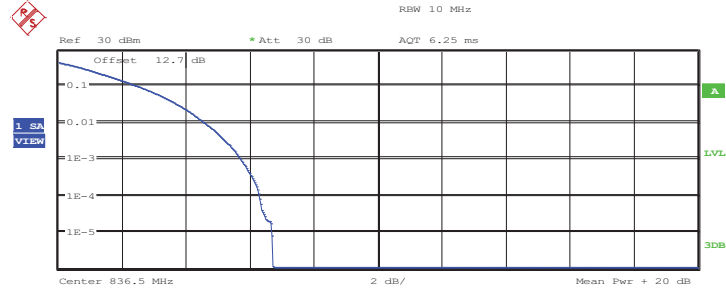
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 7.1MHz

Trace 1	
Mean	20.78 dBm
Peak	27.52 dBm
Crest	6.74 dB
10 %	2.92 dB
1 %	4.78 dB
.1 %	5.83 dB
.01 %	6.41 dB

Date: 17.JUN.2013 14:13:46



Peak-to-Average Ratio on LTE Band 5 10MHz / QPSK

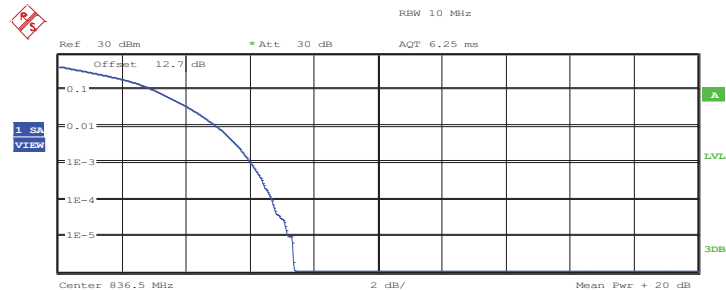


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	21.16 dBm
Peak	27.87 dBm
Crest	6.72 dB
10 %	2.50 dB
1 %	4.55 dB
.1 %	5.71 dB
.01 %	6.28 dB

Date: 17.JUN.2013 14:15:20

Peak-to-Average Ratio on LTE Band 5 10MHz / 16QAM



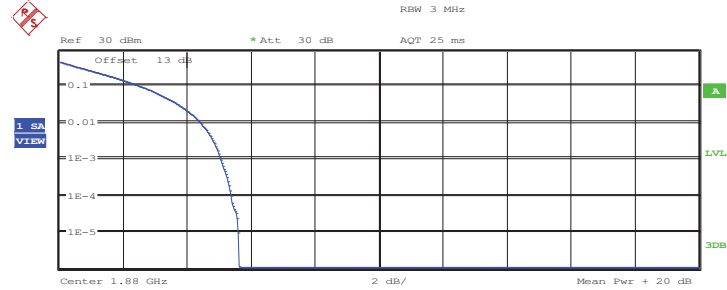
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	20.64 dBm
Peak	28.01 dBm
Crest	7.37 dB
10 %	2.98 dB
1 %	4.94 dB
.1 %	6.03 dB
.01 %	6.67 dB

Date: 17.JUN.2013 14:15:49



Peak-to-Average Ratio on LTE Band 2 1.4MHz / QPSK

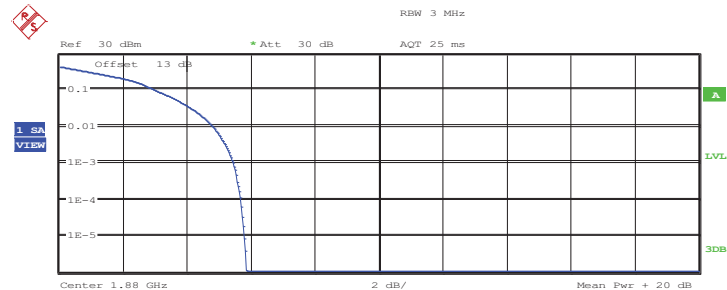


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 3.5MHz

Trace 1	
Mean	20.49 dBm
Peak	26.11 dBm
Crest	5.62 dB
10 %	2.53 dB
1 %	4.39 dB
.1 %	5.06 dB
.01 %	5.38 dB

Date: 15.JUN.2013 04:40:56

Peak-to-Average Ratio on LTE Band 2 1.4MHz / 16QAM



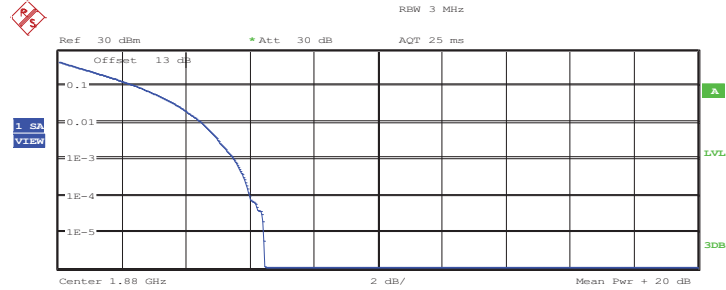
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 3.5MHz

Trace 1	
Mean	19.98 dBm
Peak	25.83 dBm
Crest	5.85 dB
10 %	2.98 dB
1 %	4.81 dB
.1 %	5.45 dB
.01 %	5.67 dB

Date: 15.JUN.2013 04:41:34



Peak-to-Average Ratio on LTE Band 2 3MHz / QPSK

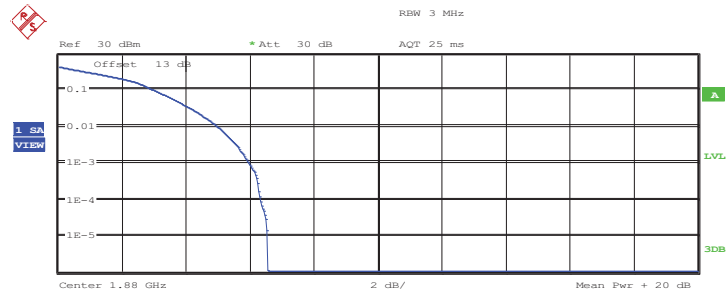


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 3.5MHz

Trace 1	
Mean	20.44 dBm
Peak	26.89 dBm
Crest	6.45 dB
10 %	2.44 dB
1 %	4.46 dB
.1 %	5.48 dB
.01 %	5.99 dB

Date: 15.JUN.2013 04:42:14

Peak-to-Average Ratio on LTE Band 2 3MHz / 16QAM



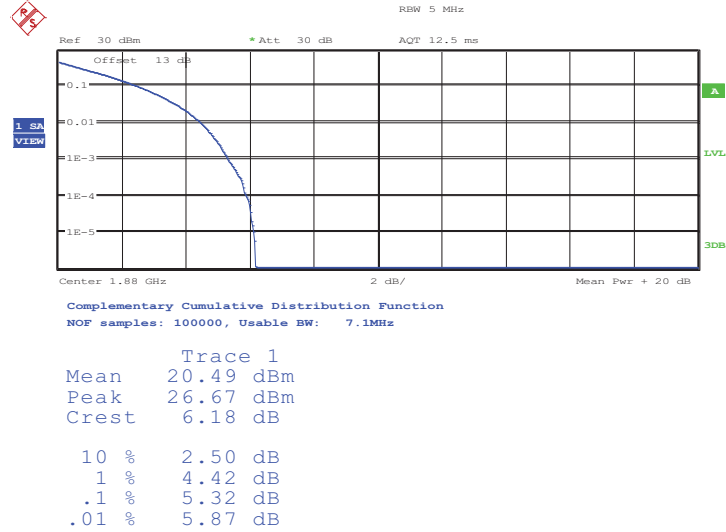
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 3.5MHz

Trace 1	
Mean	19.97 dBm
Peak	26.53 dBm
Crest	6.56 dB
10 %	2.98 dB
1 %	4.97 dB
.1 %	5.96 dB
.01 %	6.31 dB

Date: 15.JUN.2013 04:42:33

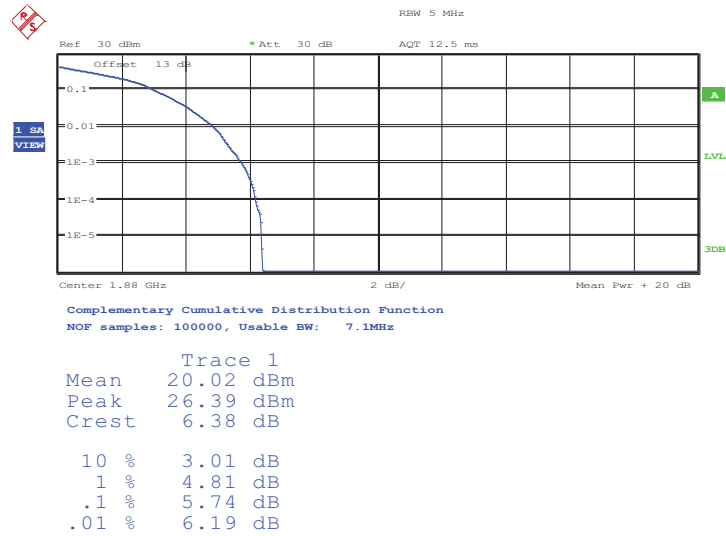


Peak-to-Average Ratio on LTE Band 2 5MHz / QPSK



Date: 15.JUN.2013 04:47:05

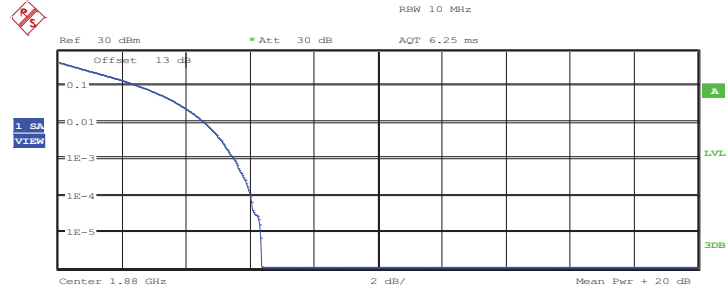
Peak-to-Average Ratio on LTE Band 2 5MHz / 16QAM



Date: 15.JUN.2013 04:47:21



Peak-to-Average Ratio on LTE Band 2 10MHz / QPSK

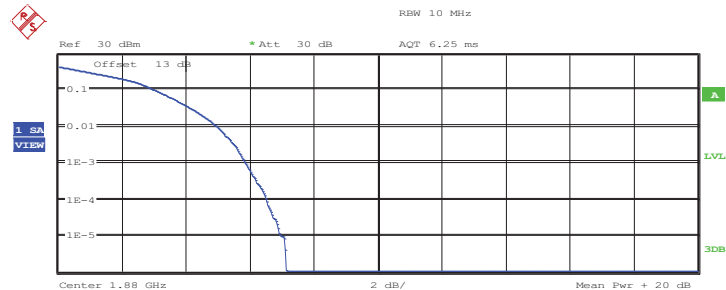


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	20.55 dBm
Peak	26.91 dBm
Crest	6.36 dB
10 %	2.53 dB
1 %	4.58 dB
.1 %	5.51 dB
.01 %	6.03 dB

Date: 15.JUN.2013 04:45:58

Peak-to-Average Ratio on LTE Band 2 10MHz / 16QAM



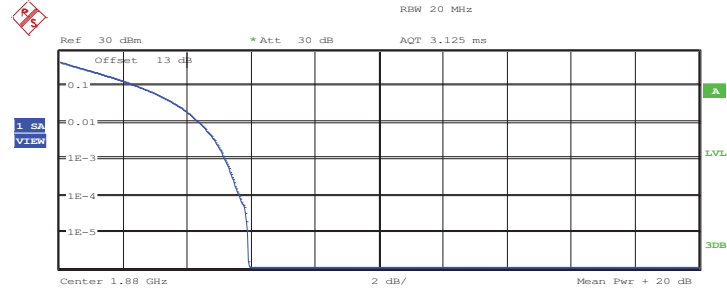
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	19.99 dBm
Peak	27.12 dBm
Crest	7.13 dB
10 %	3.01 dB
1 %	4.94 dB
.1 %	5.87 dB
.01 %	6.51 dB

Date: 15.JUN.2013 04:46:11



Peak-to-Average Ratio on LTE Band 2 15MHz / QPSK

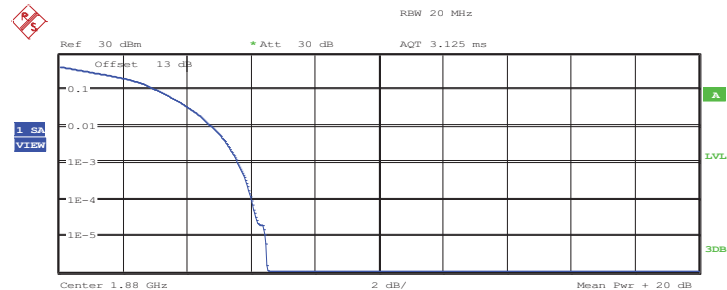


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	20.83 dBm
Peak	26.75 dBm
Crest	5.93 dB
10 %	2.47 dB
1 %	4.36 dB
.1 %	5.19 dB
.01 %	5.64 dB

Date: 15.JUN.2013 04:48:35

Peak-to-Average Ratio on LTE Band 2 15MHz / 16QAM



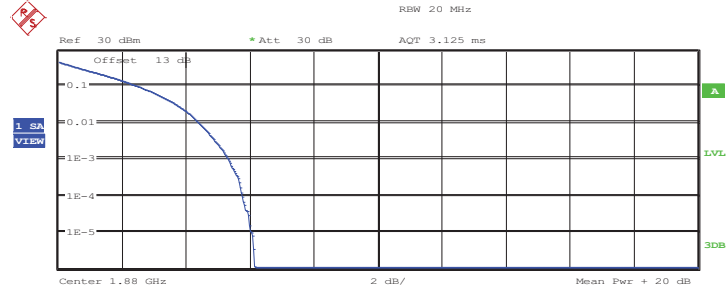
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	20.18 dBm
Peak	26.68 dBm
Crest	6.51 dB
10 %	3.04 dB
1 %	4.74 dB
.1 %	5.58 dB
.01 %	6.03 dB

Date: 15.JUN.2013 04:48:47



Peak-to-Average Ratio on LTE Band 2 20MHz / QPSK

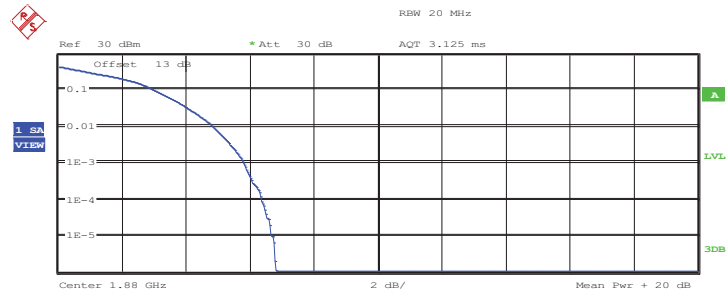


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	20.76 dBm
Peak	26.89 dBm
Crest	6.14 dB
10 %	2.50 dB
1 %	4.39 dB
.1 %	5.32 dB
.01 %	5.77 dB

Date: 15.JUN.2013 04:49:16

Peak-to-Average Ratio on LTE Band 2 20MHz / 16QAM



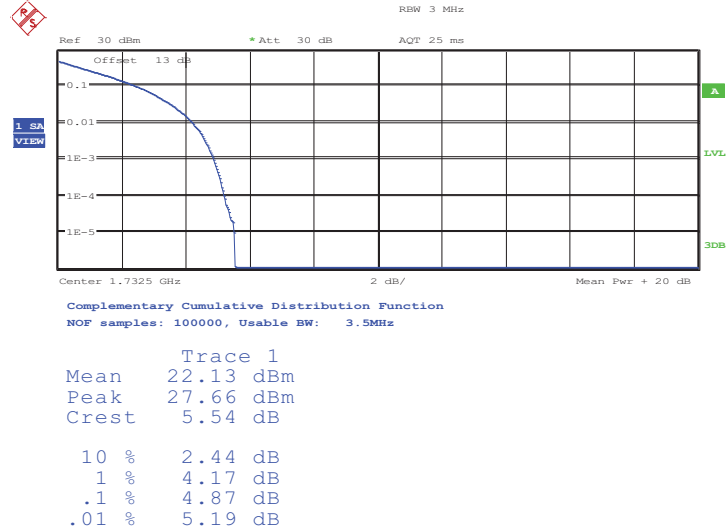
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	20.17 dBm
Peak	26.97 dBm
Crest	6.80 dB
10 %	3.01 dB
1 %	4.81 dB
.1 %	5.80 dB
.01 %	6.38 dB

Date: 15.JUN.2013 04:49:32

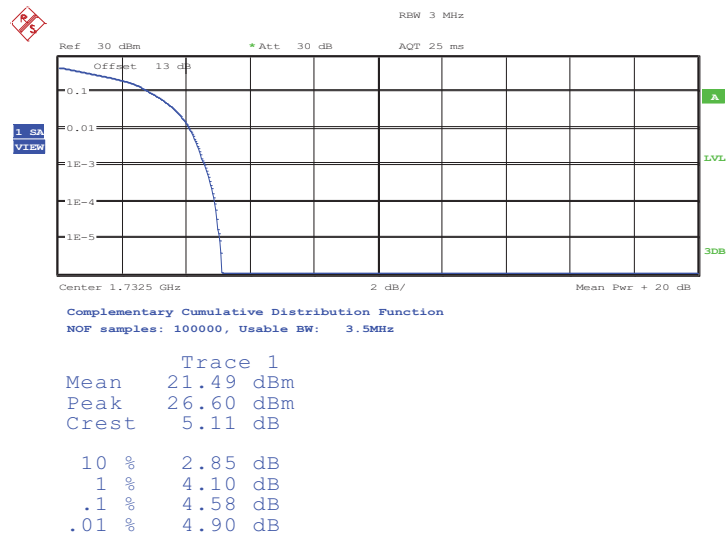


Peak-to-Average Ratio on LTE Band 4 1.4MHz / QPSK



Date: 16.JUN.2013 12:53:59

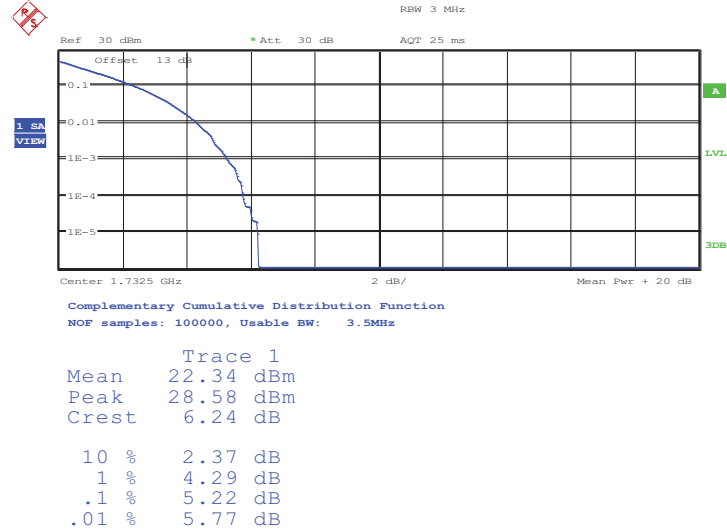
Peak-to-Average Ratio on LTE Band 4 1.4MHz / 16QAM



Date: 16.JUN.2013 12:54:20

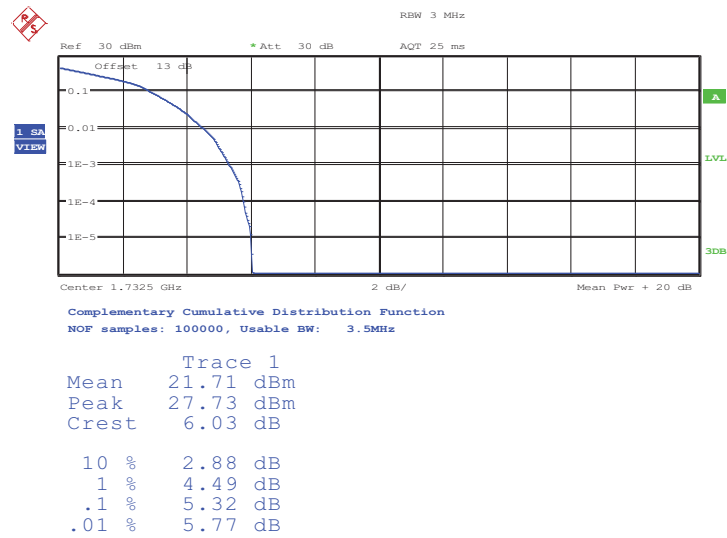


Peak-to-Average Ratio on LTE Band 4 3MHz / QPSK



Date: 16.JUN.2013 12:53:40

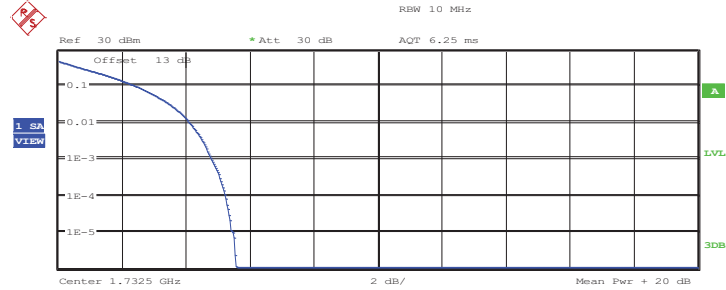
Peak-to-Average Ratio on LTE Band 4 3MHz / 16QAM



Date: 16.JUN.2013 12:53:28



Peak-to-Average Ratio on LTE Band 4 5MHz / QPSK

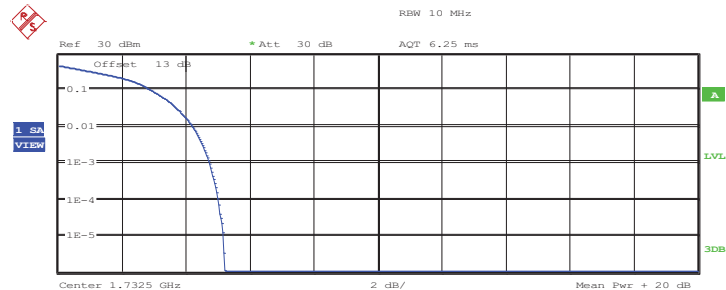


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	22.86 dBm
Peak	28.41 dBm
Crest	5.55 dB
10 %	2.44 dB
1 %	4.10 dB
.1 %	4.81 dB
.01 %	5.22 dB

Date: 16.JUN.2013 12:52:05

Peak-to-Average Ratio on LTE Band 4 5MHz / 16QAM



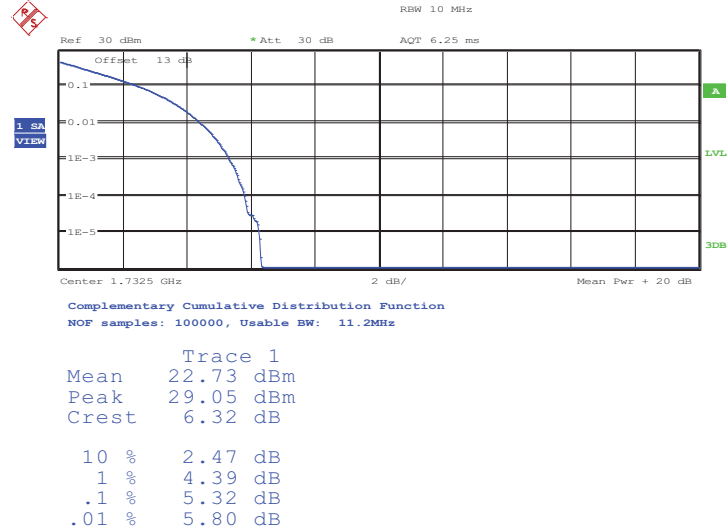
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	22.23 dBm
Peak	27.43 dBm
Crest	5.20 dB
10 %	2.88 dB
1 %	4.20 dB
.1 %	4.74 dB
.01 %	5.00 dB

Date: 16.JUN.2013 12:52:54

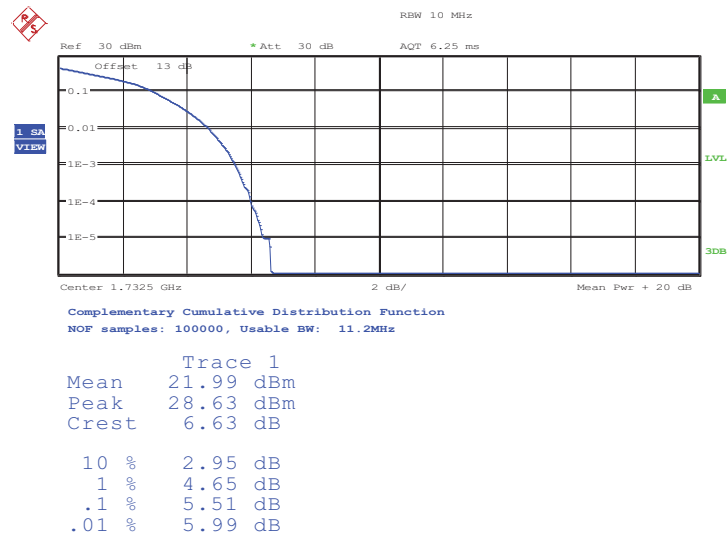


Peak-to-Average Ratio on LTE Band 4 10MHz / QPSK



Date: 16.JUN.2013 12:50:35

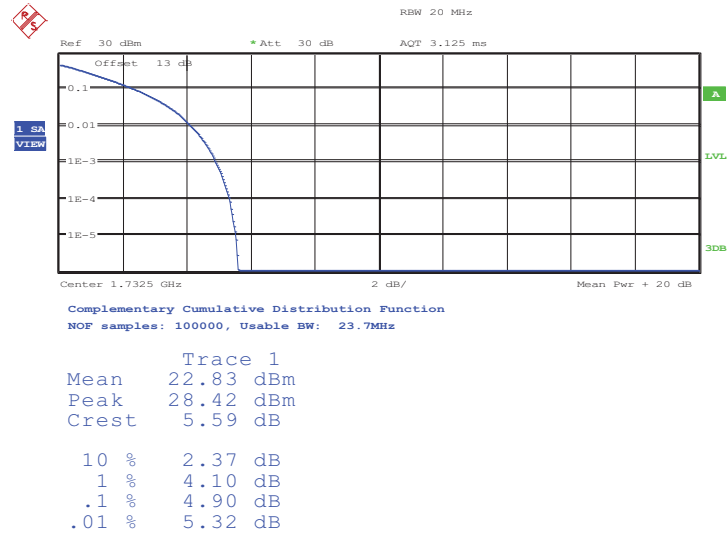
Peak-to-Average Ratio on LTE Band 4 10MHz / 16QAM



Date: 16.JUN.2013 12:50:24

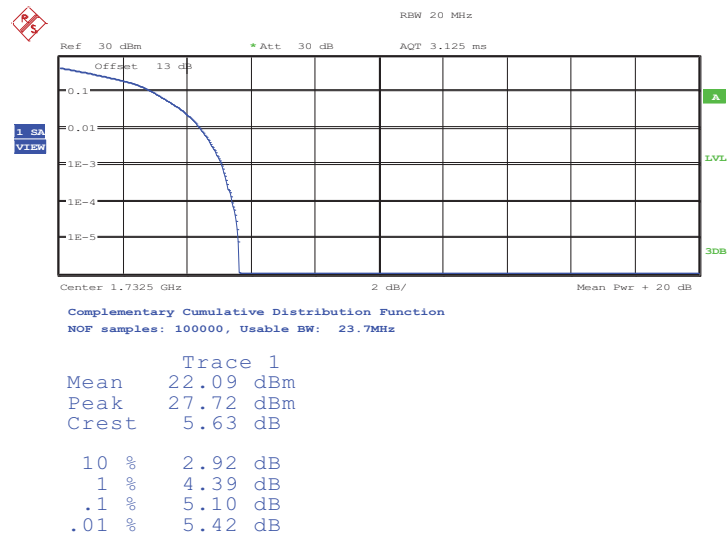


Peak-to-Average Ratio on LTE Band 4 15MHz / QPSK



Date: 16.JUN.2013 12:49:38

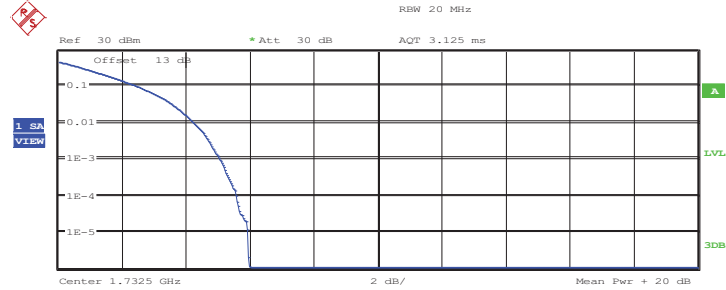
Peak-to-Average Ratio on LTE Band 4 15MHz / 16QAM



Date: 16.JUN.2013 12:49:27



Peak-to-Average Ratio on LTE Band 4 20MHz / QPSK

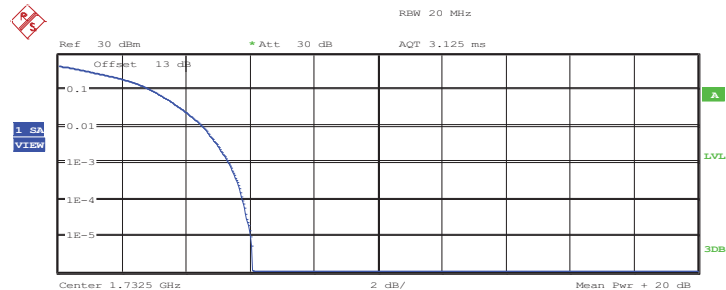


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	22.74 dBm
Peak	28.70 dBm
Crest	5.96 dB
10 %	2.47 dB
1 %	4.23 dB
.1 %	5.06 dB
.01 %	5.58 dB

Date: 16.JUN.2013 12:48:28

Peak-to-Average Ratio on LTE Band 4 20MHz / 16QAM



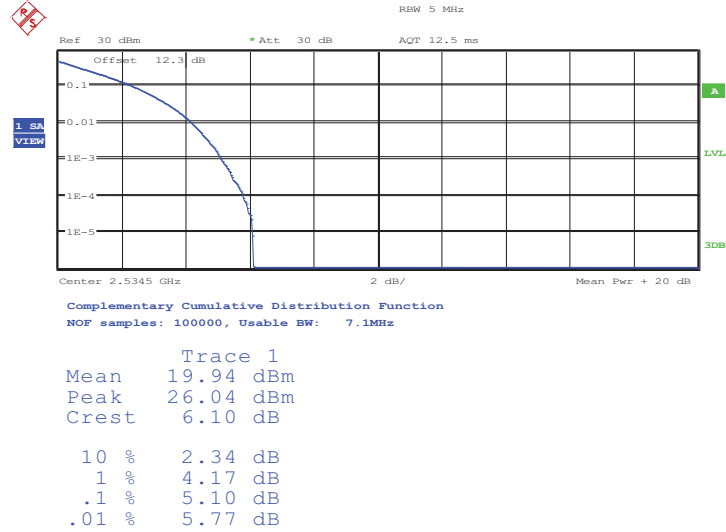
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	21.98 dBm
Peak	28.07 dBm
Crest	6.08 dB
10 %	2.92 dB
1 %	4.49 dB
.1 %	5.32 dB
.01 %	5.77 dB

Date: 16.JUN.2013 12:48:54

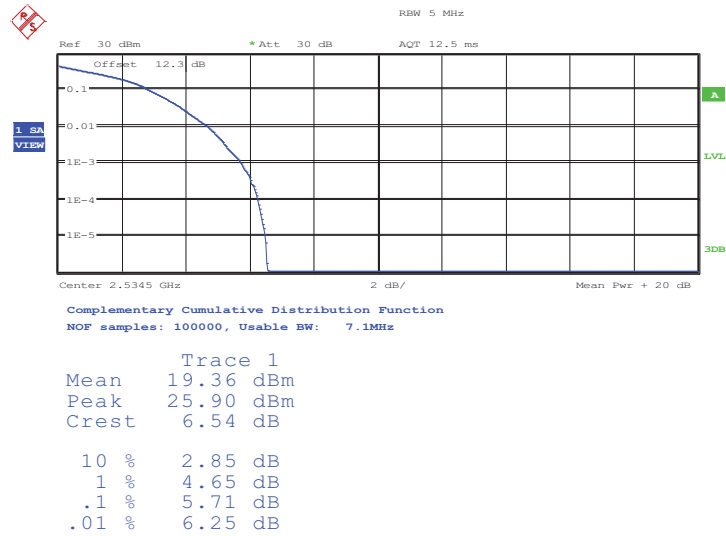


Peak-to-Average Ratio on LTE Band 7 5MHz / QPSK



Date: 18.JUN.2013 17:56:38

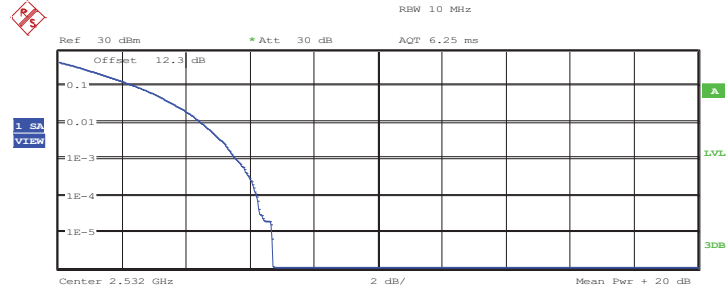
Peak-to-Average Ratio on LTE Band 7 5MHz / 16QAM



Date: 18.JUN.2013 17:56:20



Peak-to-Average Ratio on LTE Band 7 10MHz / QPSK

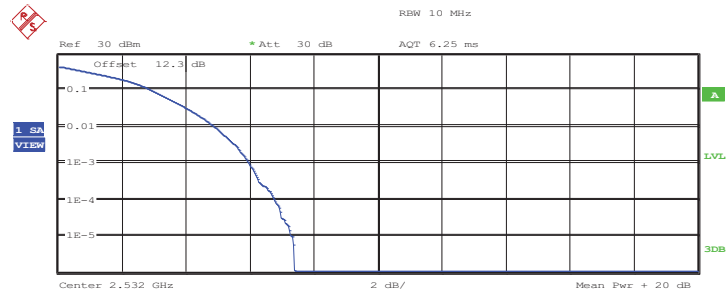


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	20.05 dBm
Peak	26.76 dBm
Crest	6.71 dB
10 %	2.40 dB
1 %	4.46 dB
.1 %	5.54 dB
.01 %	6.22 dB

Date: 18.JUN.2013 17:54:27

Peak-to-Average Ratio on LTE Band 7 10MHz / 16QAM



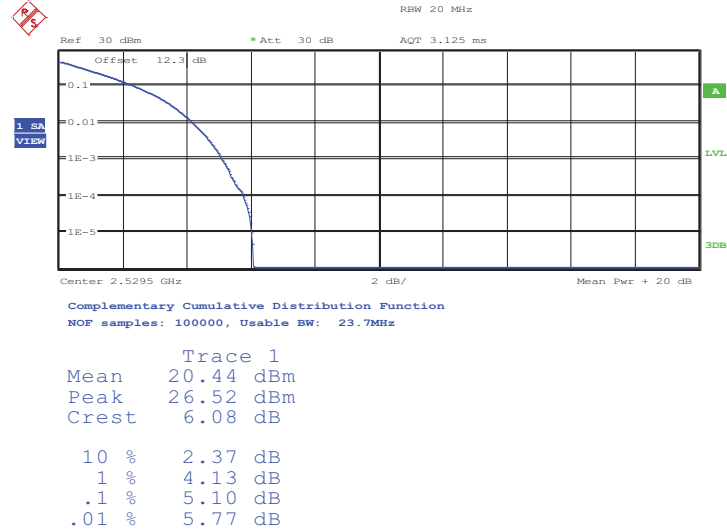
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	19.65 dBm
Peak	27.05 dBm
Crest	7.40 dB
10 %	2.88 dB
1 %	4.87 dB
.1 %	5.96 dB
.01 %	6.76 dB

Date: 18.JUN.2013 17:54:48

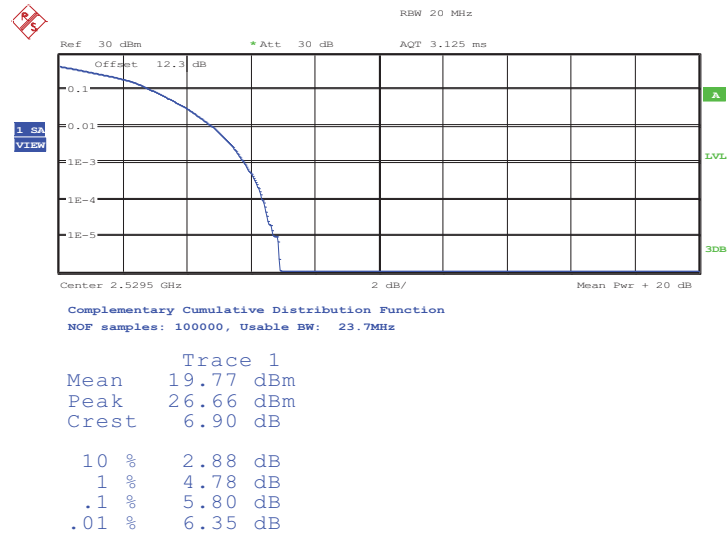


Peak-to-Average Ratio on LTE Band 7 15MHz / QPSK



Date: 18.JUN.2013 17:52:48

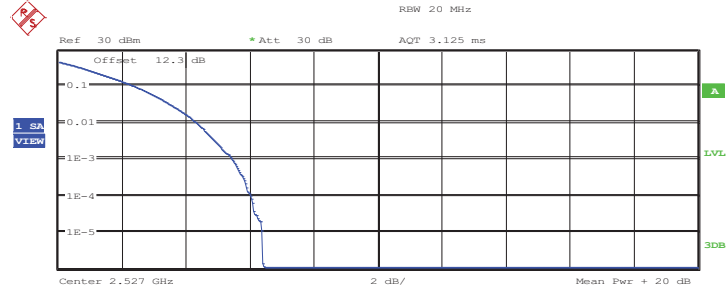
Peak-to-Average Ratio on LTE Band 7 15MHz / 16QAM



Date: 18.JUN.2013 17:52:33



Peak-to-Average Ratio on LTE Band 7 20MHz / QPSK

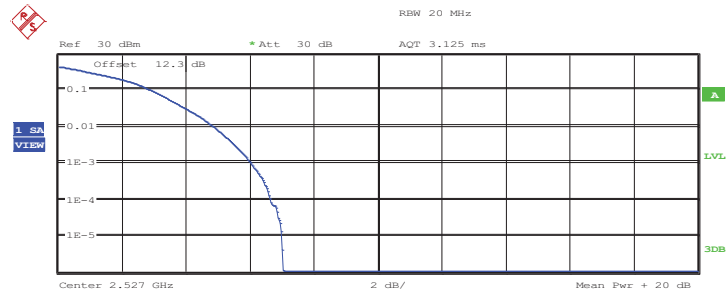


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	20.10 dBm
Peak	26.50 dBm
Crest	6.40 dB
10 %	2.37 dB
1 %	4.29 dB
.1 %	5.42 dB
.01 %	6.03 dB

Date: 18.JUN.2013 17:50:11

Peak-to-Average Ratio on LTE Band 7 20MHz / 16QAM



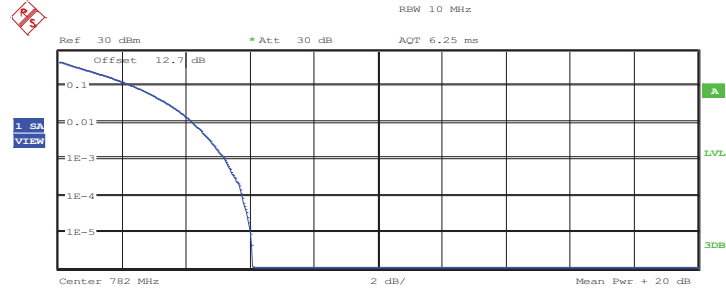
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	19.62 dBm
Peak	26.65 dBm
Crest	7.02 dB
10 %	2.88 dB
1 %	4.84 dB
.1 %	6.03 dB
.01 %	6.63 dB

Date: 18.JUN.2013 17:50:34



Peak-to-Average Ratio on LTE Band 13 5MHz / QPSK

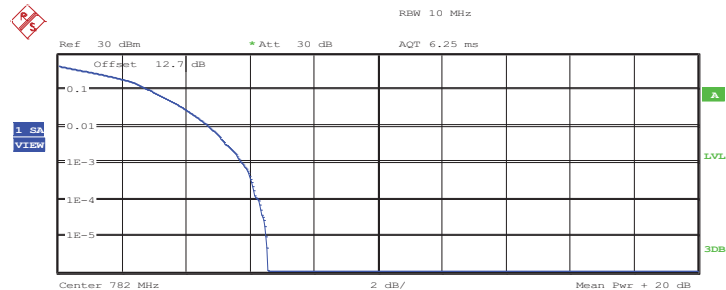


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	21.25 dBm
Peak	27.33 dBm
Crest	6.08 dB
10 %	2.34 dB
1 %	4.20 dB
.1 %	5.19 dB
.01 %	5.74 dB

Date: 17.JUN.2013 15:46:46

Peak-to-Average Ratio on LTE Band 13 5MHz / 16QAM



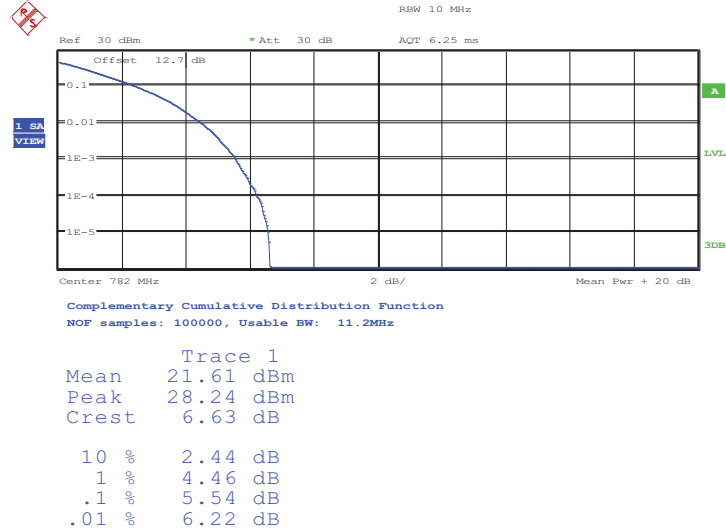
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	20.62 dBm
Peak	27.19 dBm
Crest	6.56 dB
10 %	2.85 dB
1 %	4.71 dB
.1 %	5.74 dB
.01 %	6.22 dB

Date: 17.JUN.2013 15:45:24

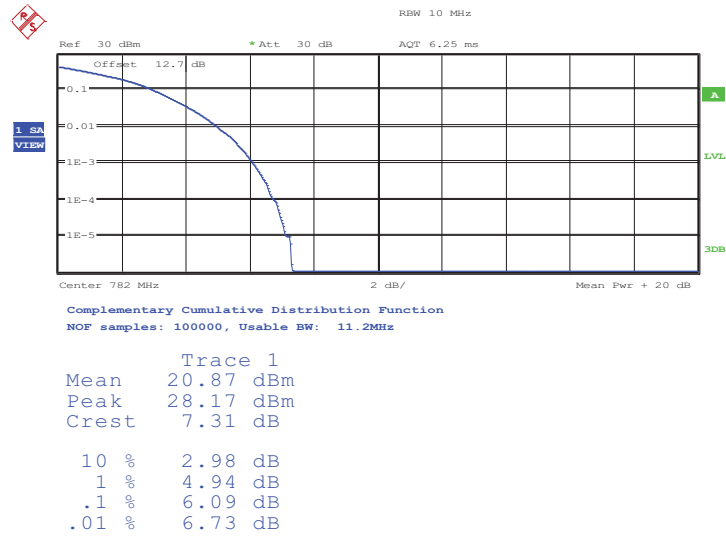


Peak-to-Average Ratio on LTE Band 13 10MHz / QPSK



Date: 17.JUN.2013 15:43:51

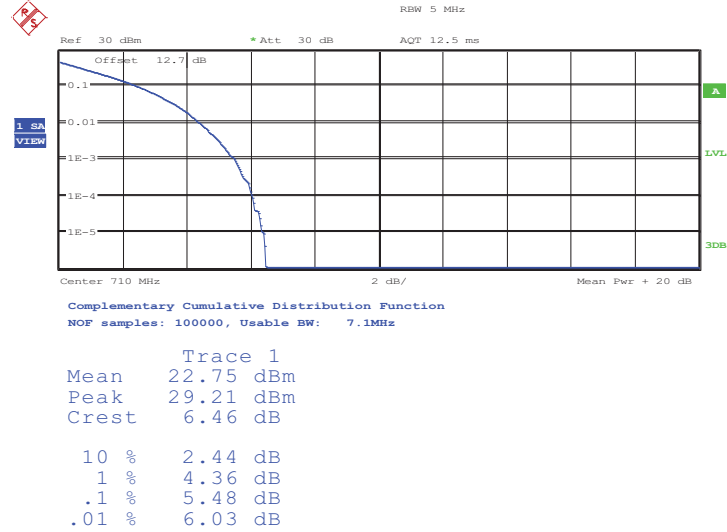
Peak-to-Average Ratio on LTE Band 13 10MHz / 16QAM



Date: 17.JUN.2013 15:44:21

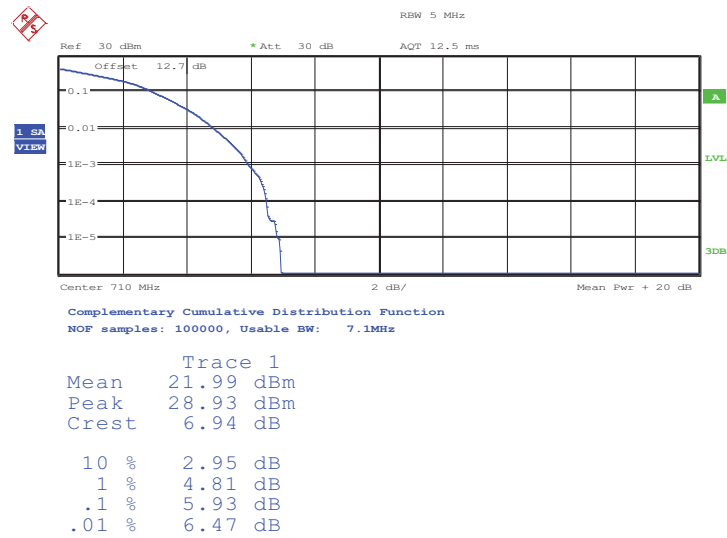


Peak-to-Average Ratio on LTE Band 17 5MHz / QPSK



Date: 18.JUN.2013 16:03:11

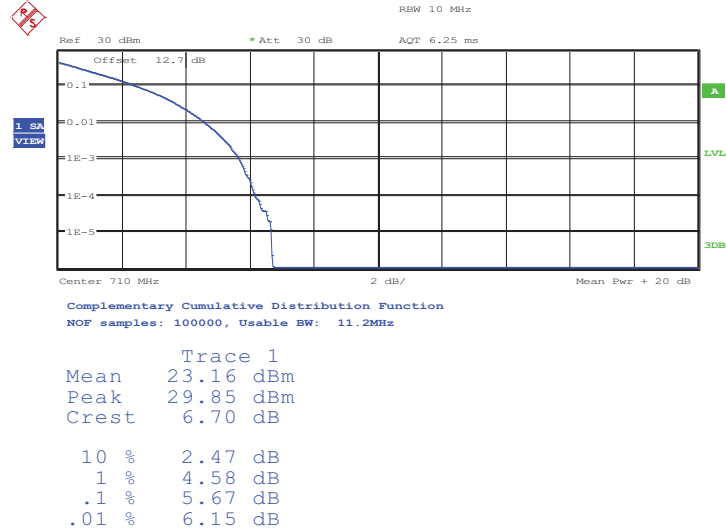
Peak-to-Average Ratio on LTE Band 17 5MHz / 16QAM



Date: 18.JUN.2013 16:03:39

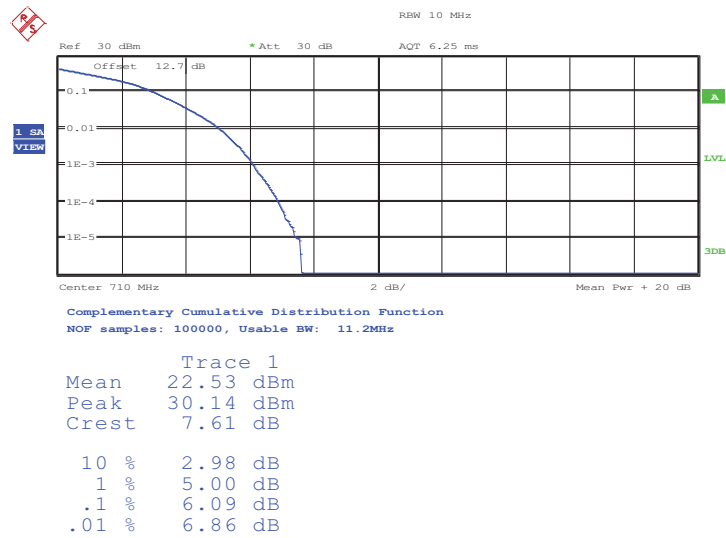


Peak-to-Average Ratio on LTE Band 17 10MHz / QPSK



Date: 18.JUN.2013 16:04:50

Peak-to-Average Ratio on LTE Band 17 10MHz / 16QAM



Date: 18.JUN.2013 16:04:27

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 26dB 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 26 dB.

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.

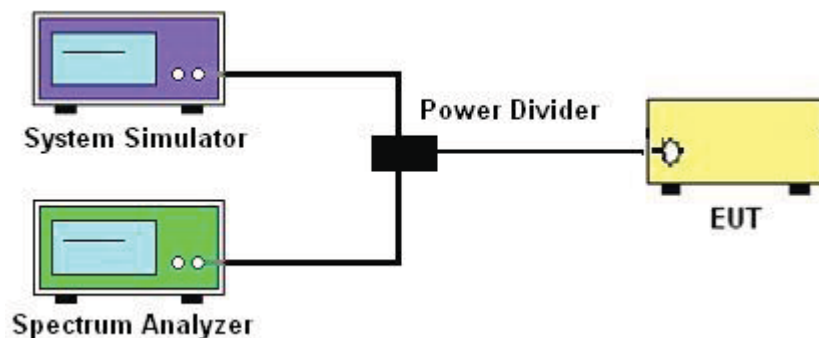
3.3.2 Measuring Instruments

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 Base Station via power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF powers with full RB sizes were measured.

3.3.4 Test Setup

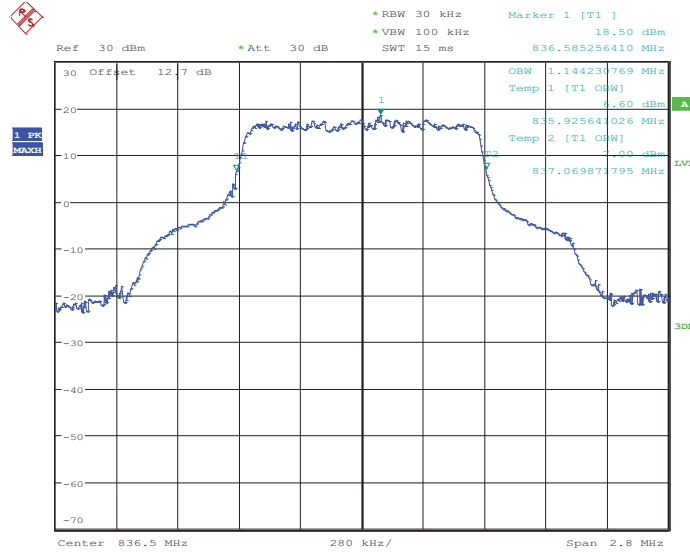




3.3.5 Test Result (Plots) of Occupied Bandwidth

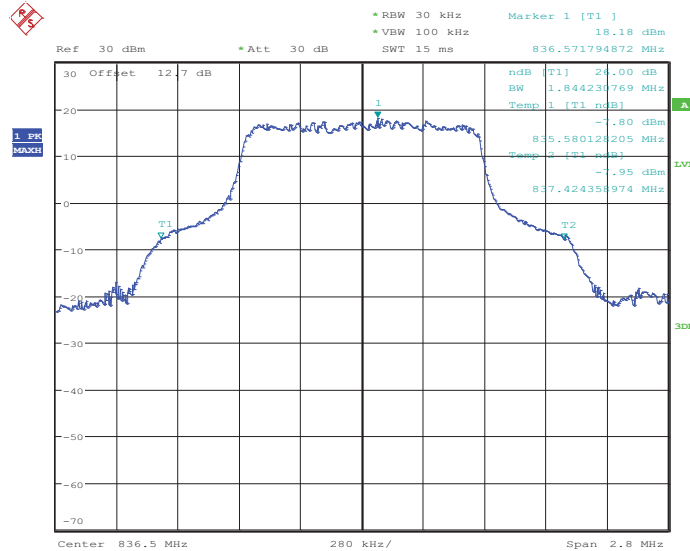
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20525



Date: 17.JUN.2013 10:32:23

26dB Bandwidth Plot on Channel 20525

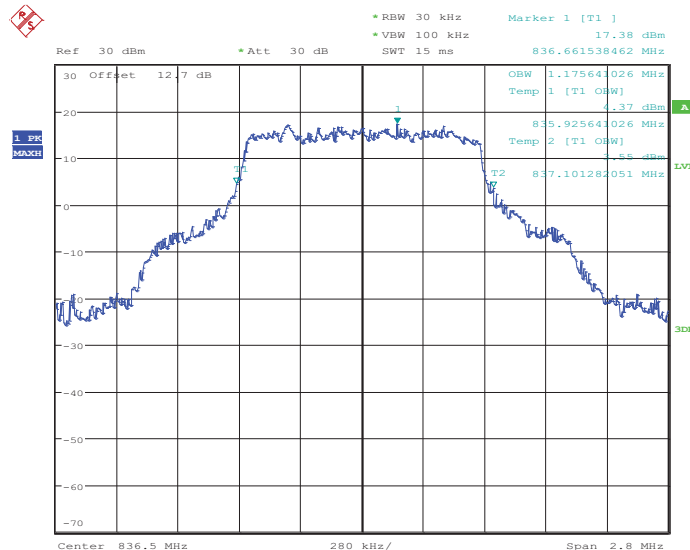


Date: 17.JUN.2013 11:18:53



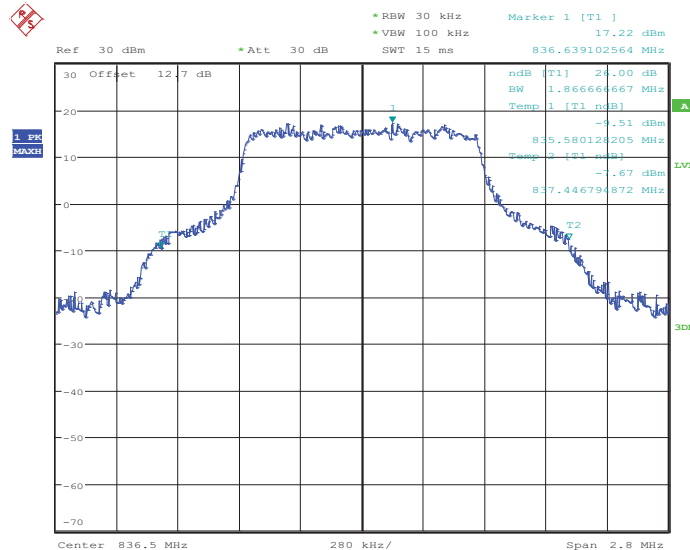
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20525



Date: 17.JUN.2013 10:33:04

26dB Bandwidth Plot on Channel 20525

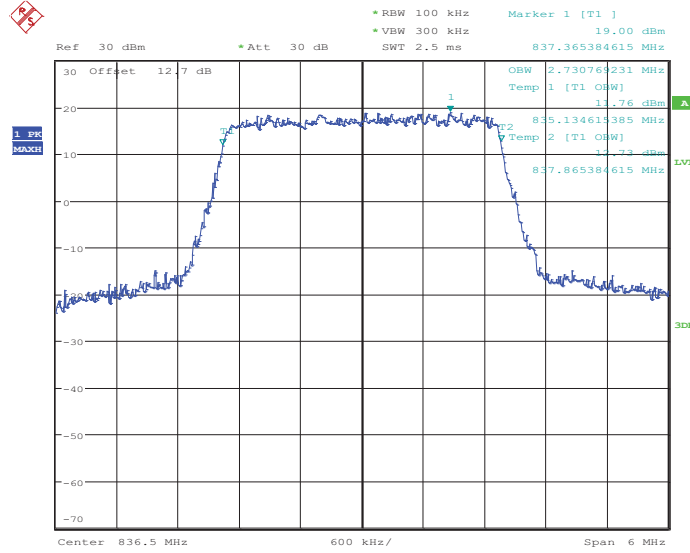


Date: 17.JUN.2013 11:22:41



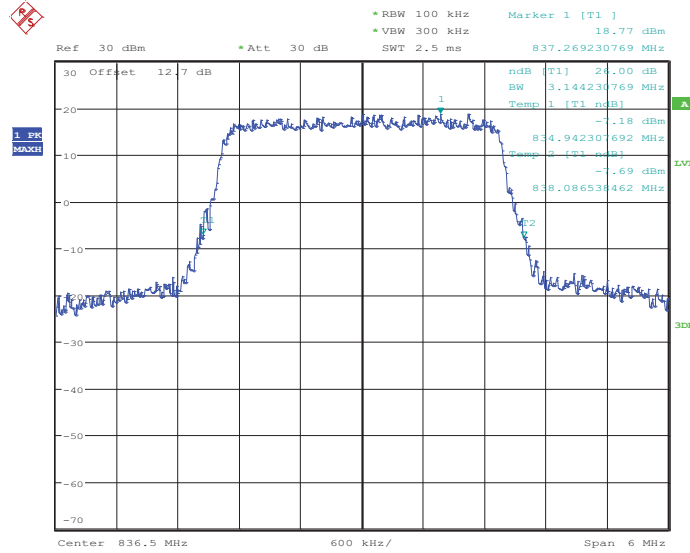
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20525



Date: 17.JUN.2013 10:37:08

26dB Bandwidth Plot on Channel 20525

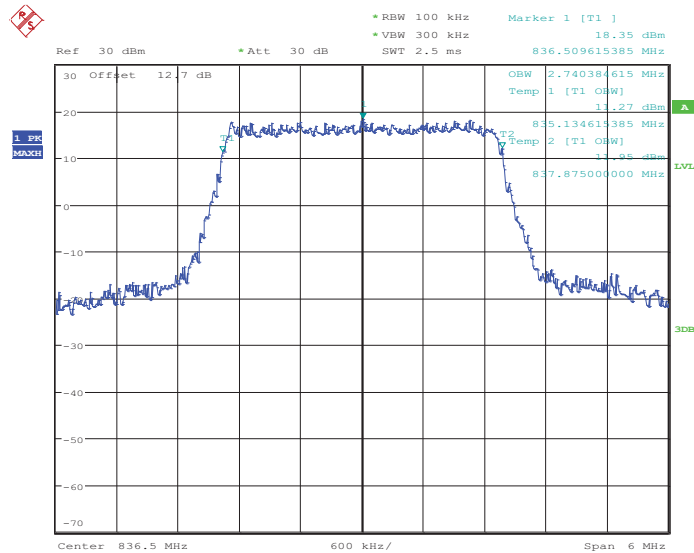


Date: 17.JUN.2013 11:23:53



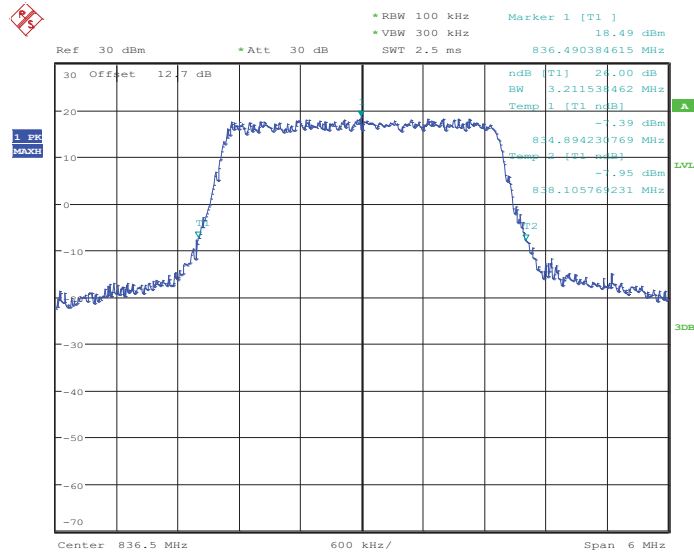
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20525



Date: 17.JUN.2013 10:37:26

26dB Bandwidth Plot on Channel 20525

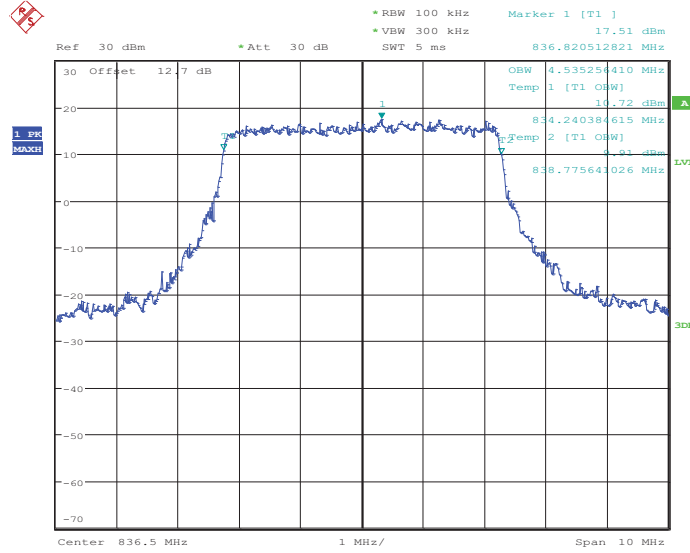


Date: 17.JUN.2013 11:23:38



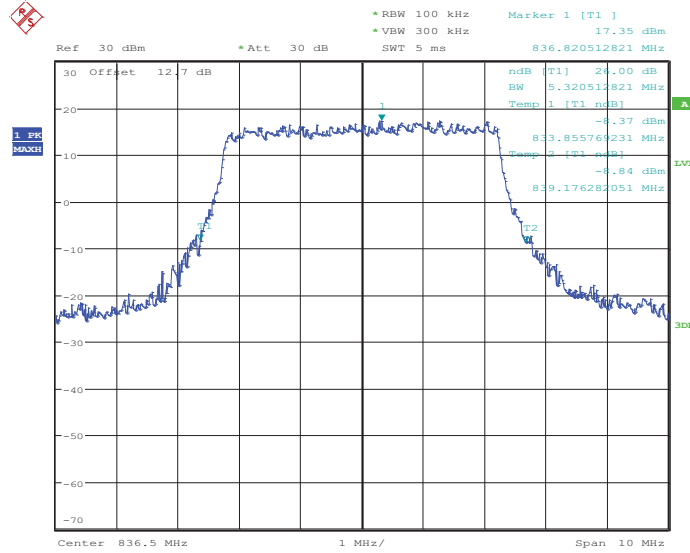
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20525



Date: 17.JUN.2013 10:43:14

26dB Bandwidth Plot on Channel 20525

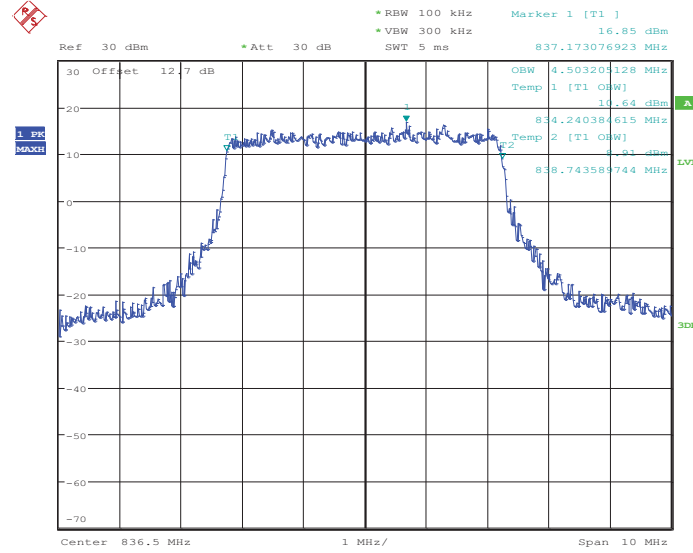


Date: 17.JUN.2013 11:24:39



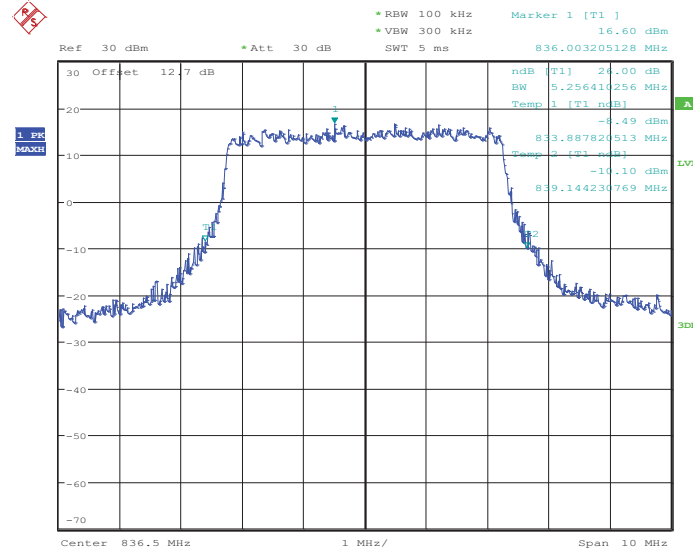
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20525



Date: 17.JUN.2013 10:43:30

26dB Bandwidth Plot on Channel 20525

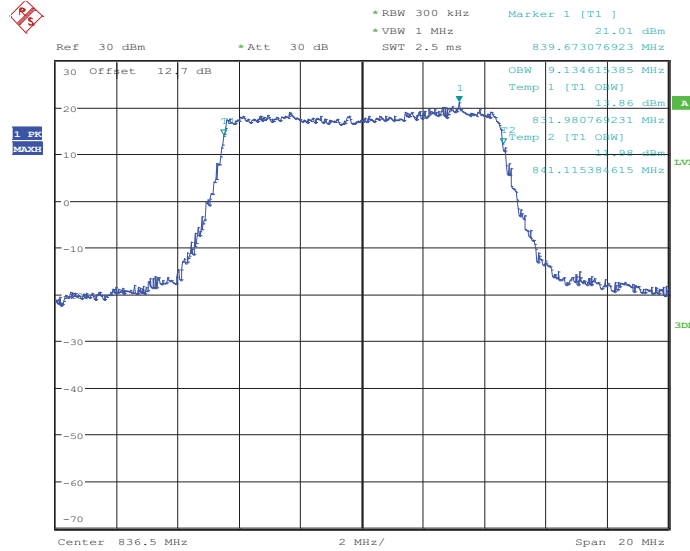


Date: 17.JUN.2013 11:25:08



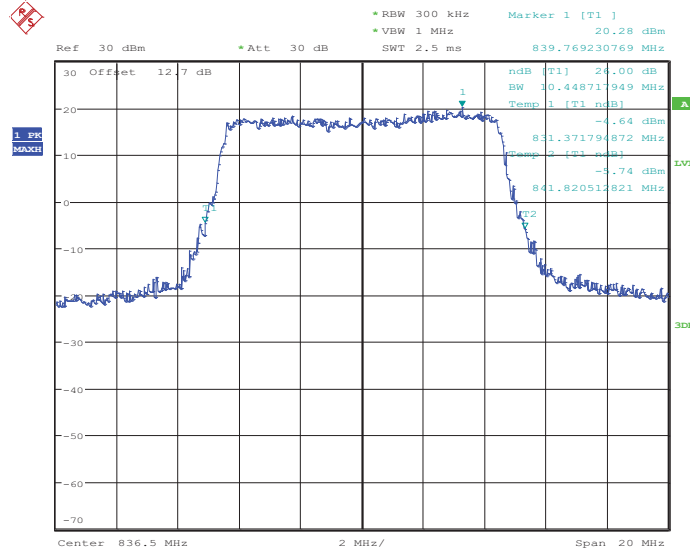
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20525



Date: 17.JUN.2013 10:47:52

26dB Bandwidth Plot on Channel 20525

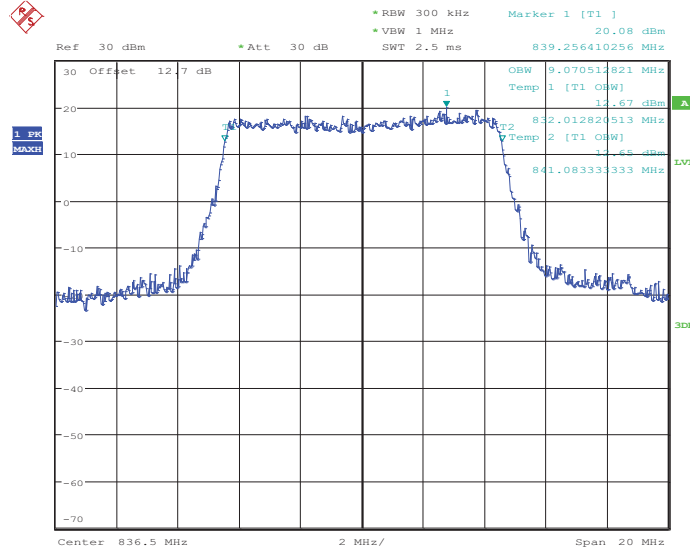


Date: 17.JUN.2013 11:27:37



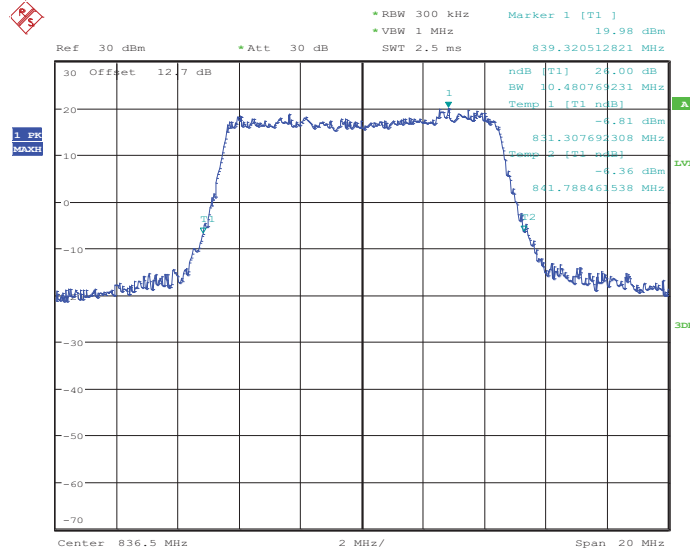
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20525



Date: 17.JUN.2013 10:48:05

26dB Bandwidth Plot on Channel 20525

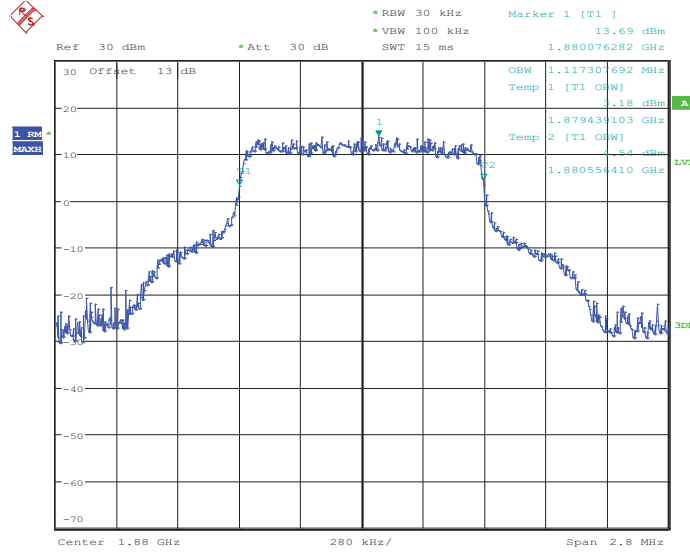


Date: 17.JUN.2013 11:27:21



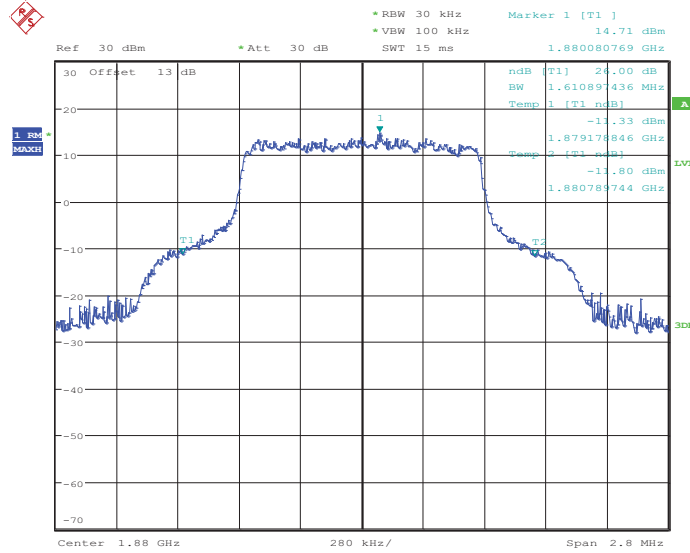
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:35:29

26dB Bandwidth Plot on Channel 18900

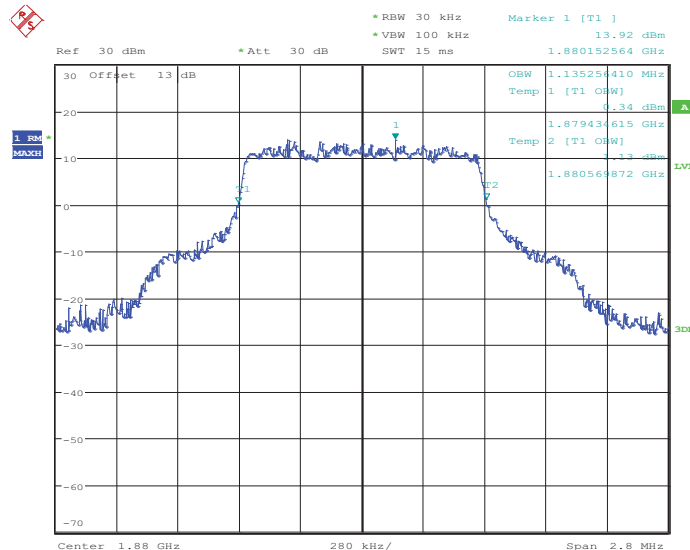


Date: 15.JUN.2013 03:47:31



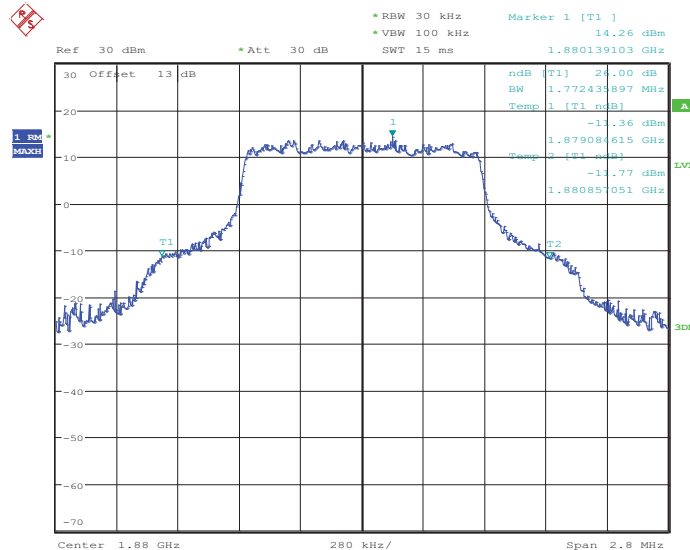
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:37:32

26dB Bandwidth Plot on Channel 18900

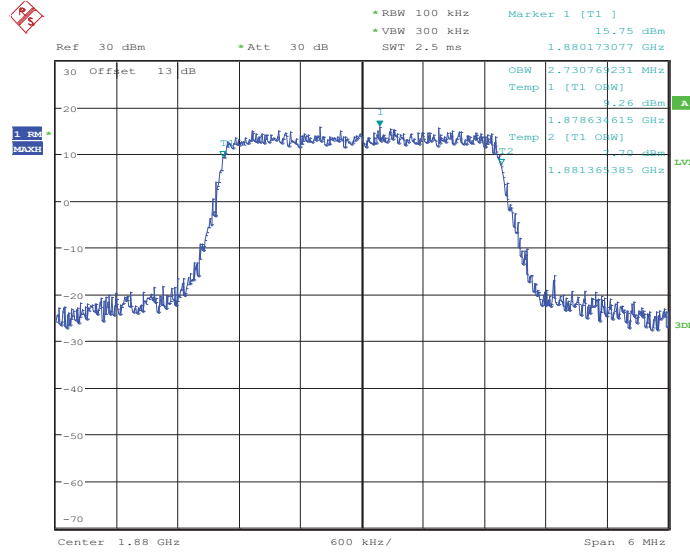


Date: 15.JUN.2013 03:47:08



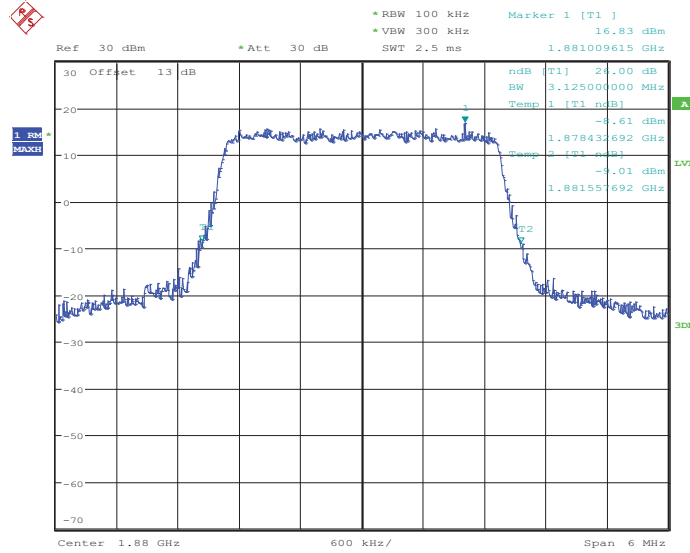
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:31:09

26dB Bandwidth Plot on Channel 18900

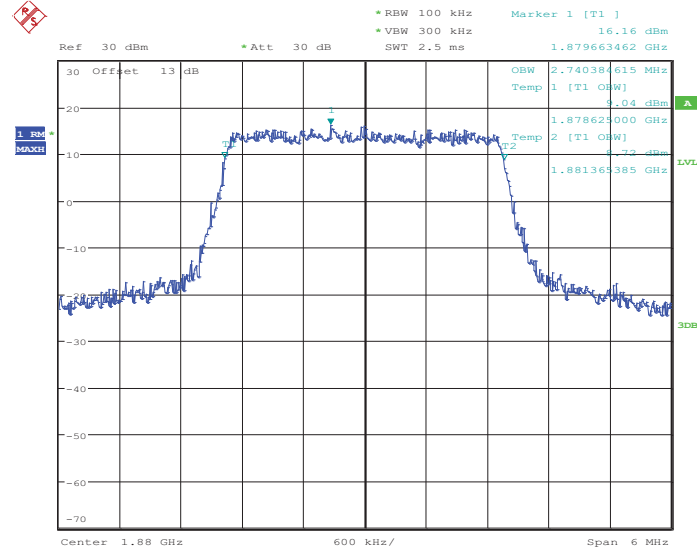


Date: 15.JUN.2013 03:51:25



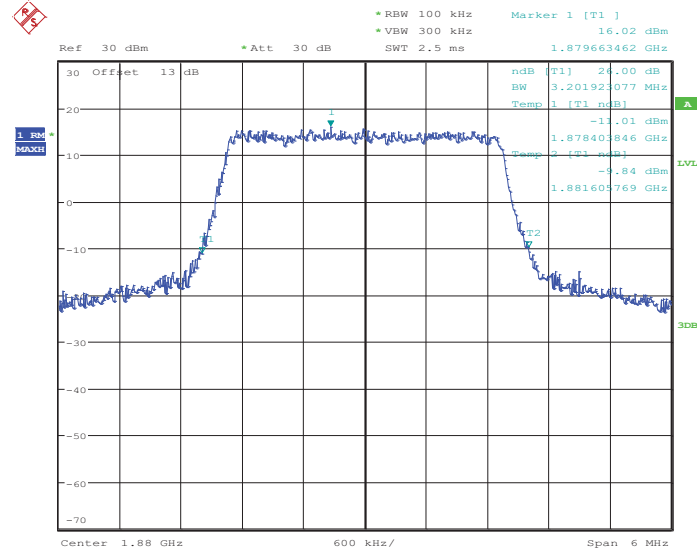
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:33:27

26dB Bandwidth Plot on Channel 18900

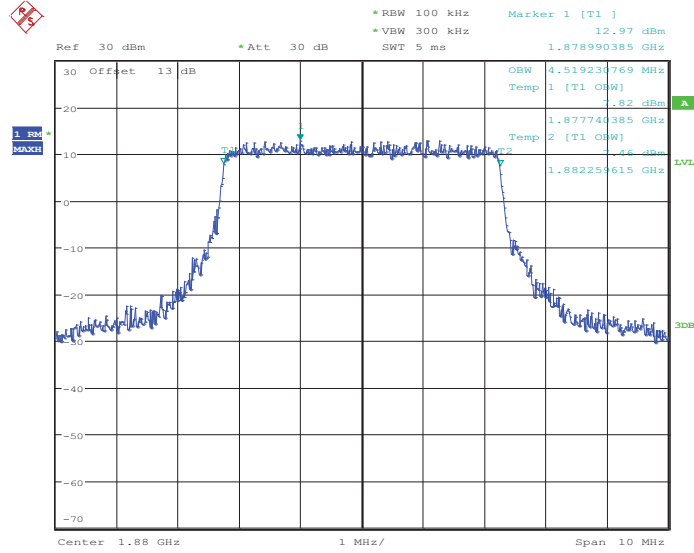


Date: 15.JUN.2013 03:49:04



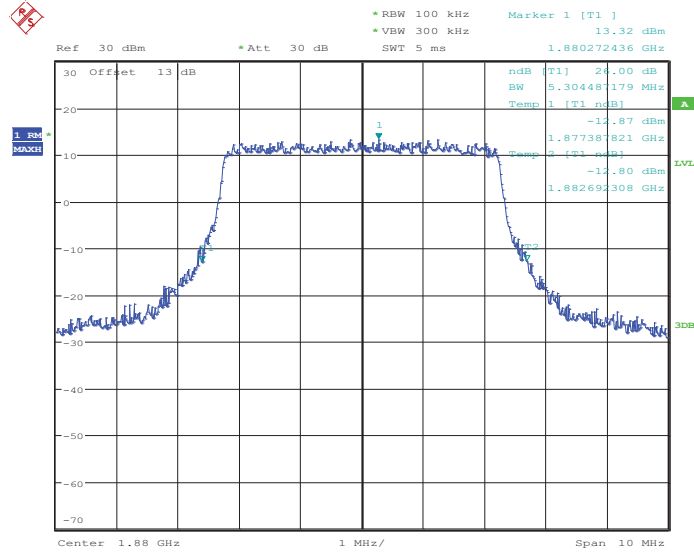
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:24:03

26dB Bandwidth Plot on Channel 18900

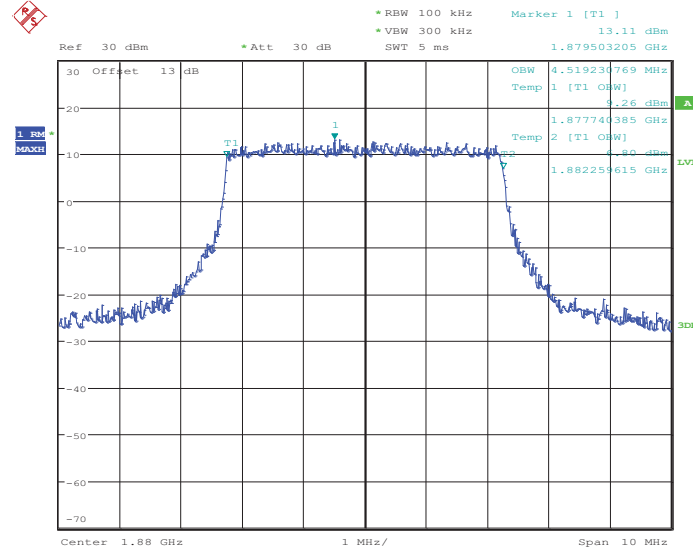


Date: 15.JUN.2013 03:50:04



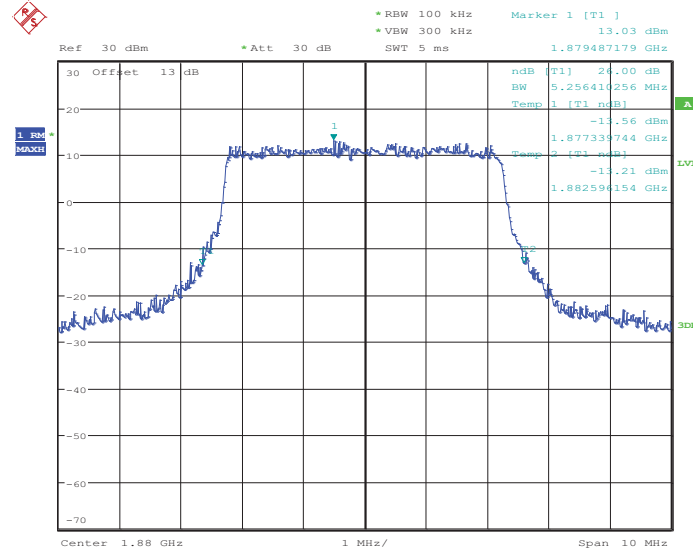
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:28:45

26dB Bandwidth Plot on Channel 18900

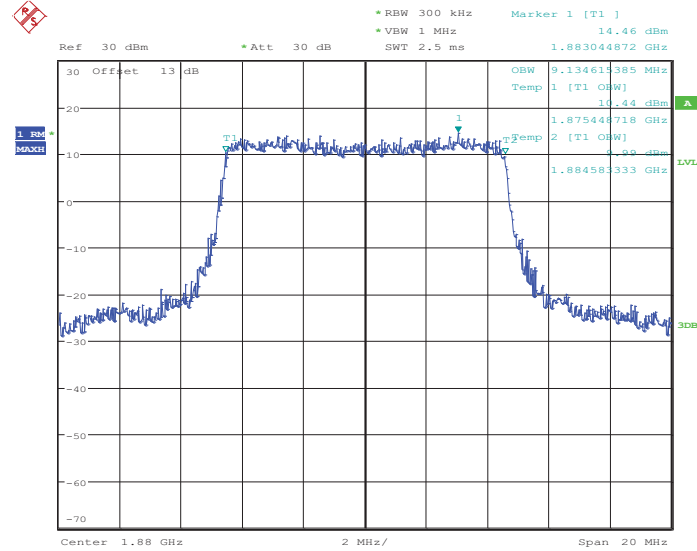


Date: 15.JUN.2013 03:50:37



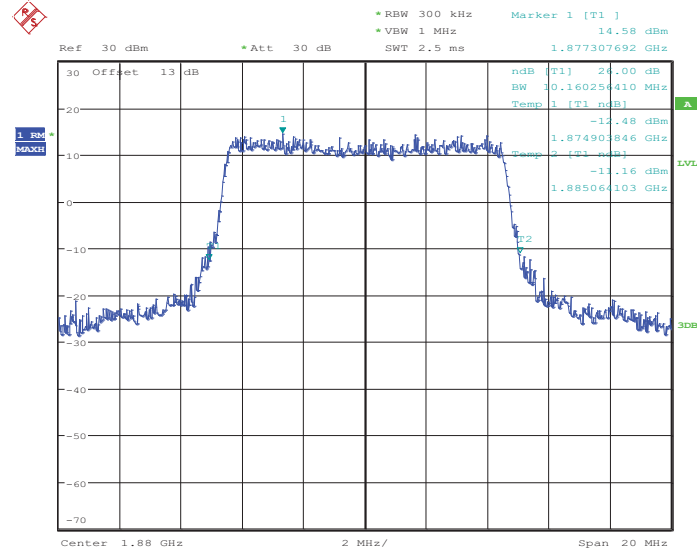
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:17:28

26dB Bandwidth Plot on Channel 18900

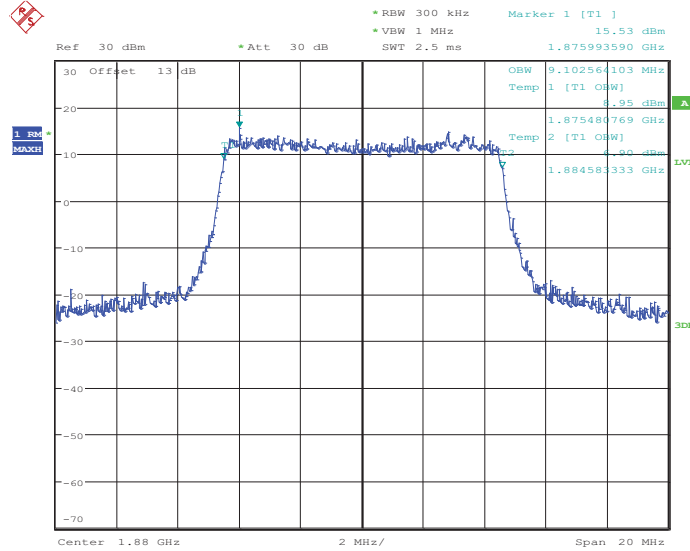


Date: 15.JUN.2013 03:53:37



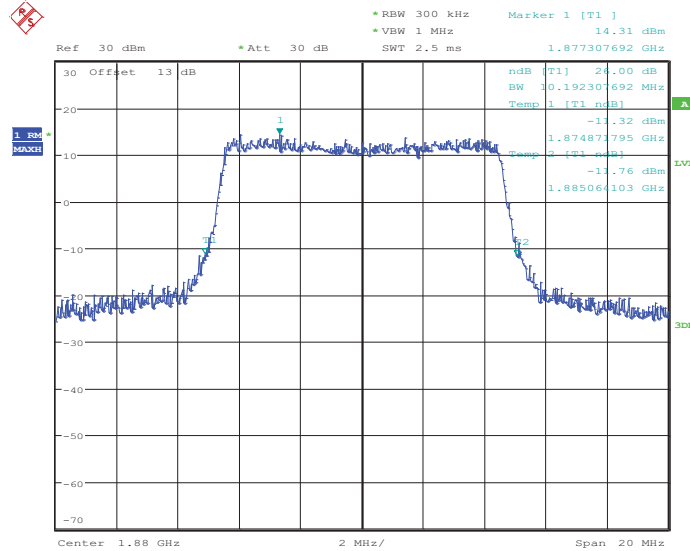
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:21:55

26dB Bandwidth Plot on Channel 18900

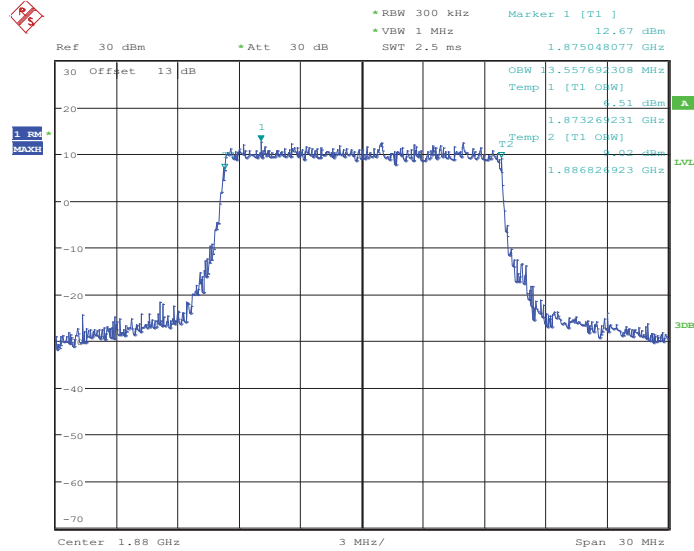


Date: 15.JUN.2013 03:53:53



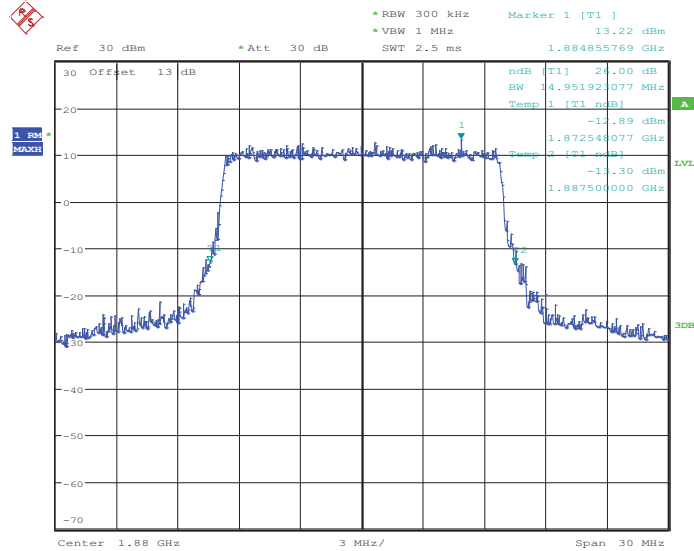
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:14:37

26dB Bandwidth Plot on Channel 18900

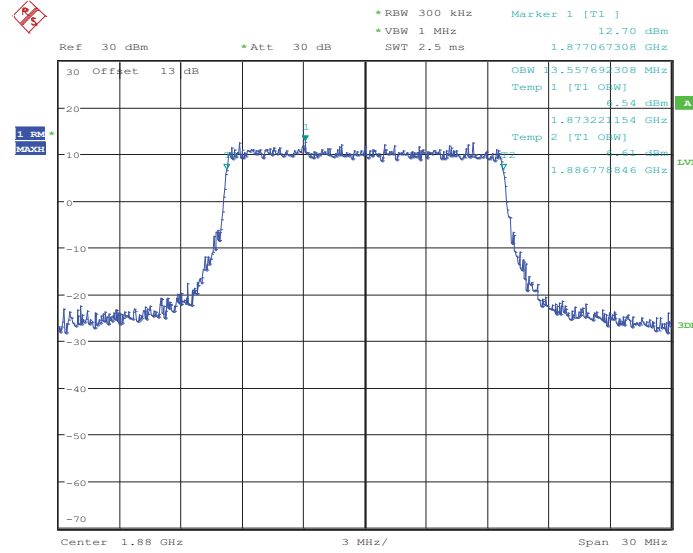


Date: 15.JUN.2013 03:54:43



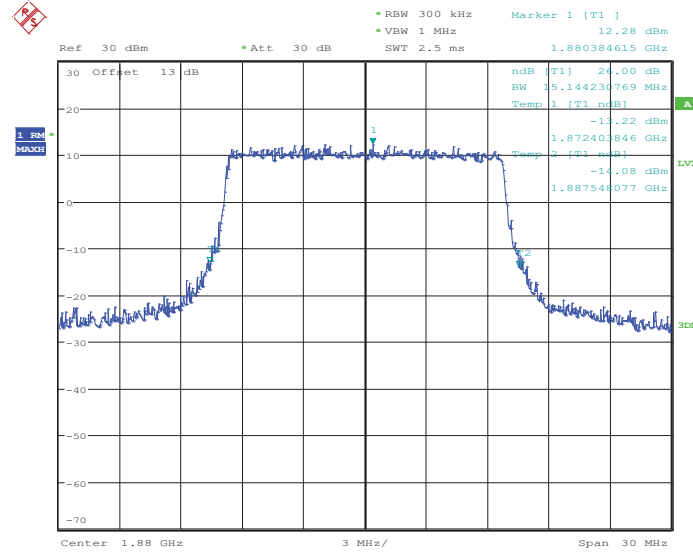
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:16:20

26dB Bandwidth Plot on Channel 18900

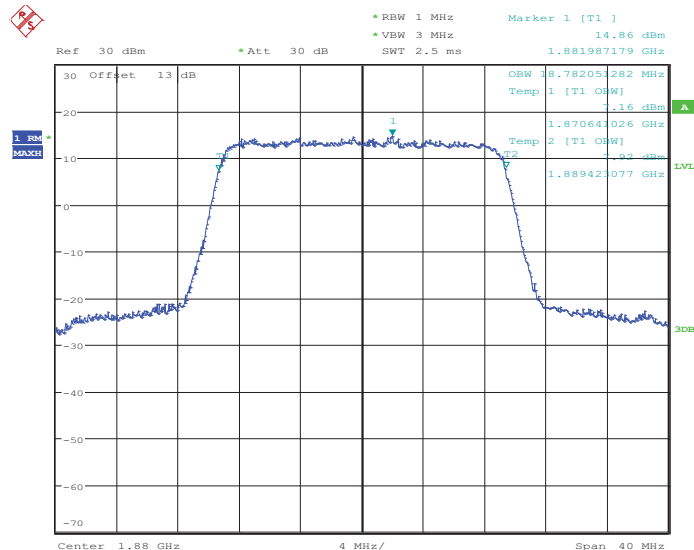


Date: 15.JUN.2013 03:54:55



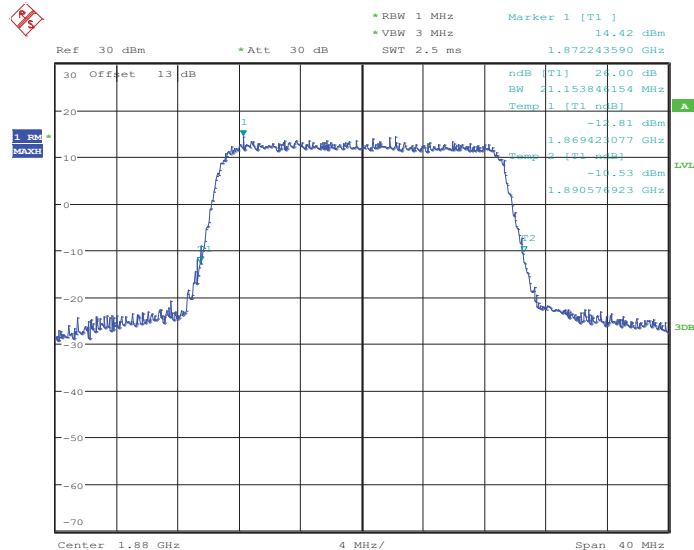
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:10:22

26dB Bandwidth Plot on Channel 18900

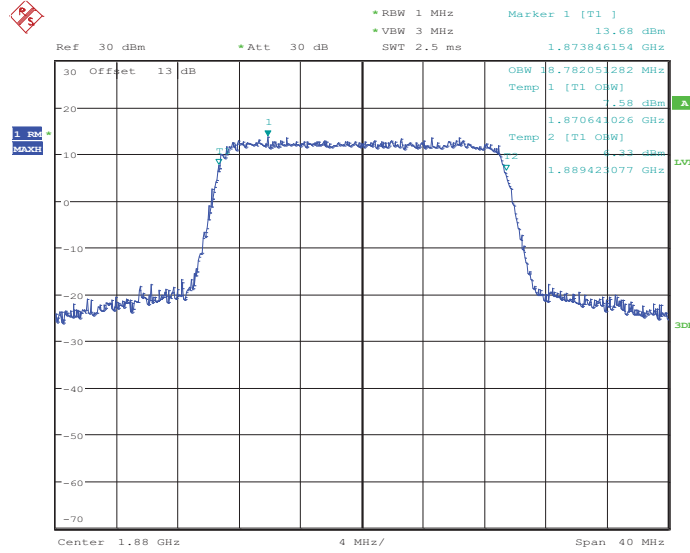


Date: 15.JUN.2013 03:56:44



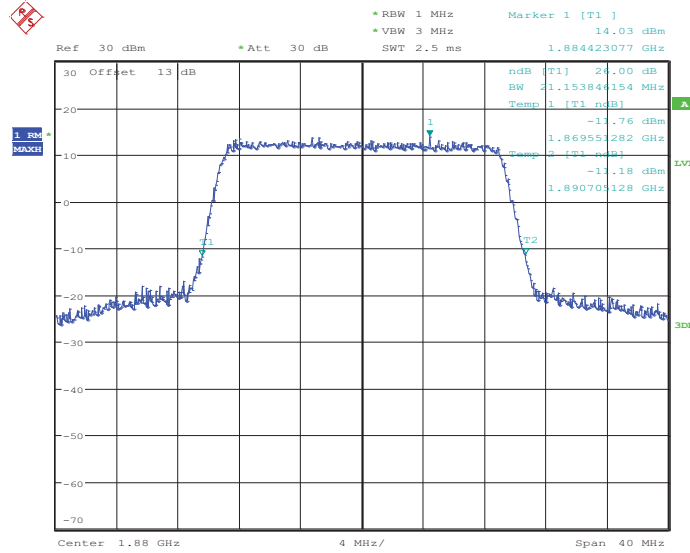
Band :	LTE Band 2	BW / Mod. :	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18900



Date: 15.JUN.2013 04:10:33

26dB Bandwidth Plot on Channel 18900

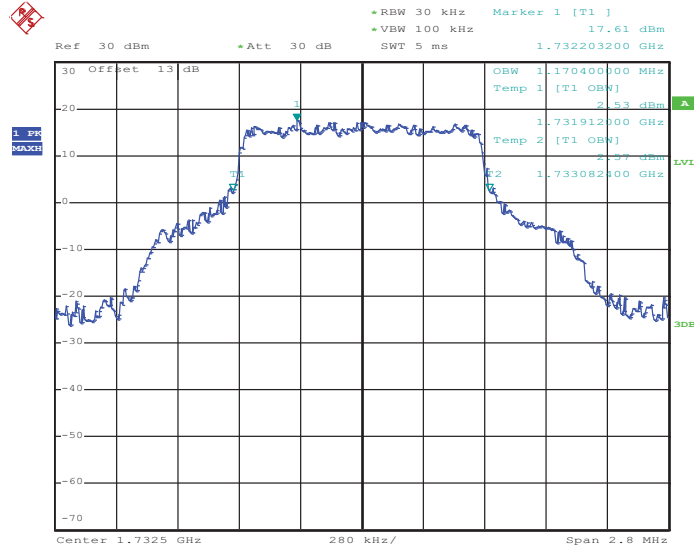


Date: 15.JUN.2013 03:59:02



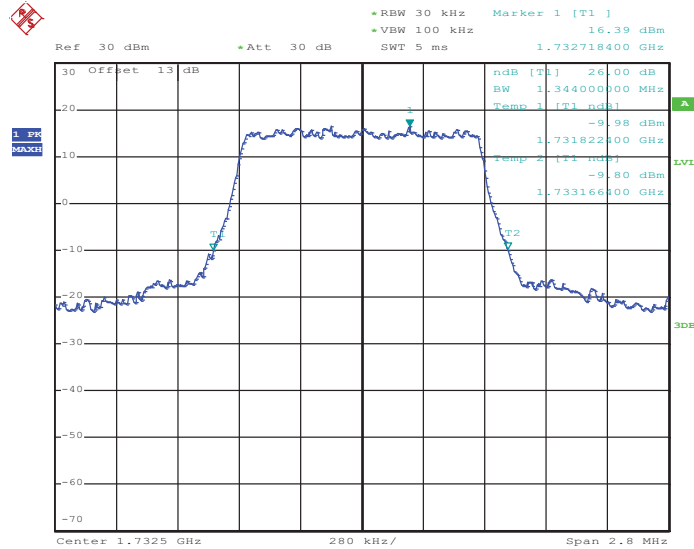
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:25:15

26dB Bandwidth Plot on Channel 20175

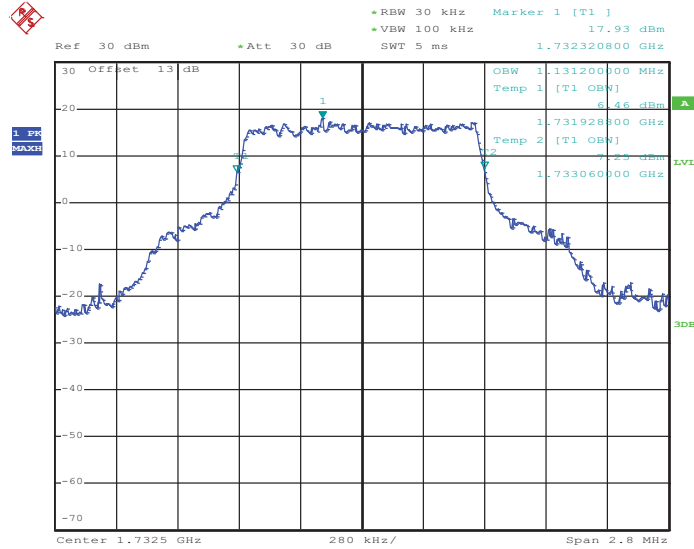


Date: 27.JUN.2013 09:42:14



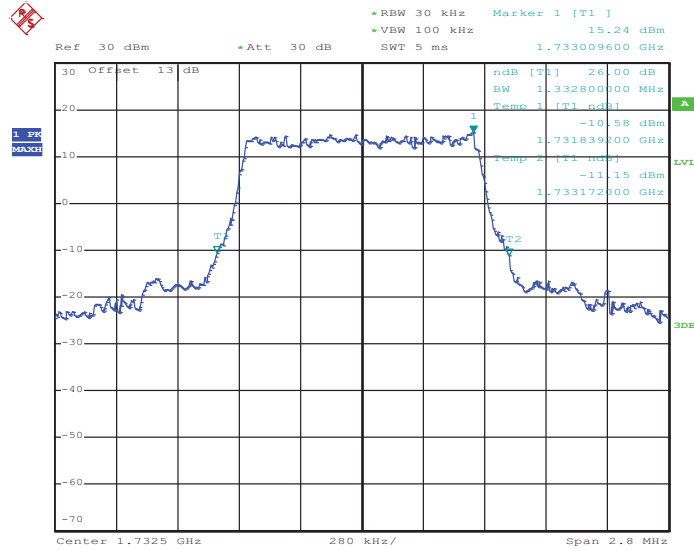
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:25:01

26dB Bandwidth Plot on Channel 20175

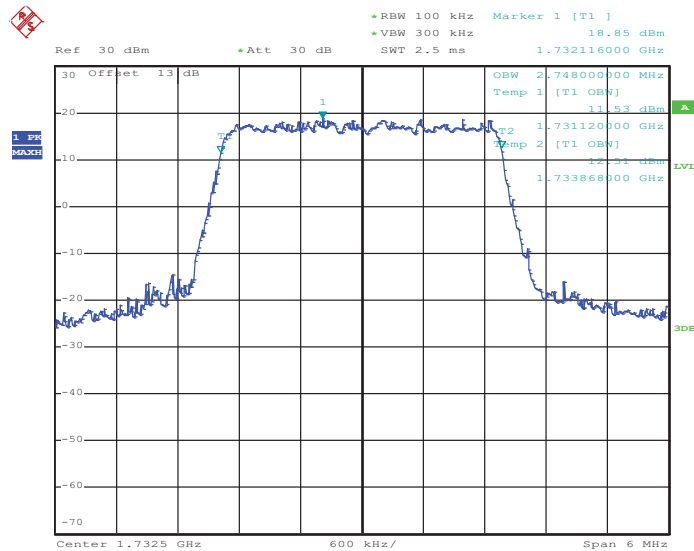


Date: 27.JUN.2013 09:42:29



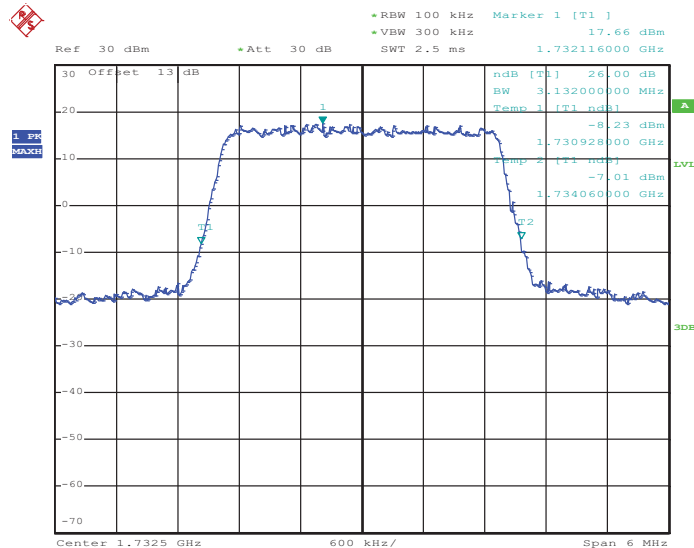
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:22:15

26dB Bandwidth Plot on Channel 20175

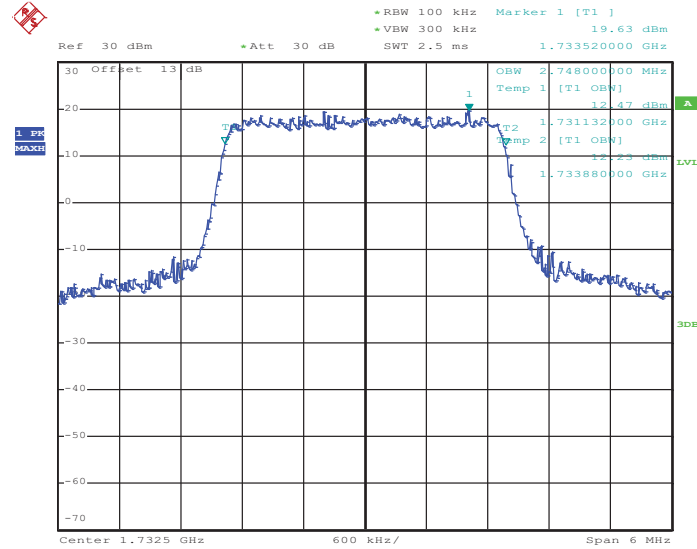


Date: 27.JUN.2013 09:43:24



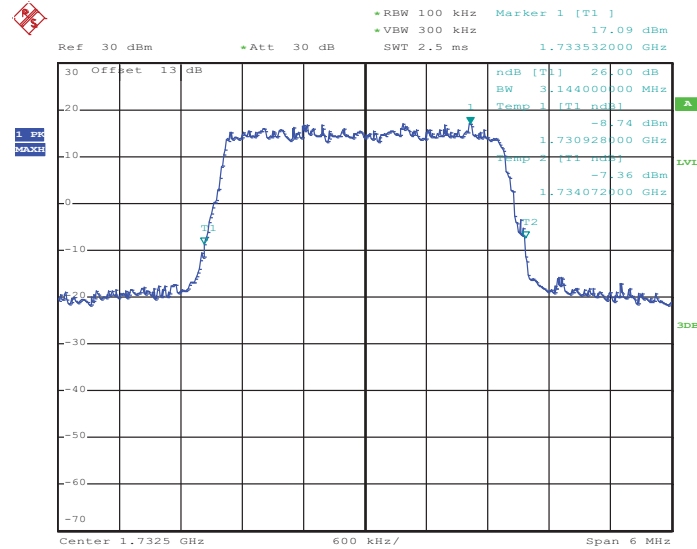
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:22:30

26dB Bandwidth Plot on Channel 20175

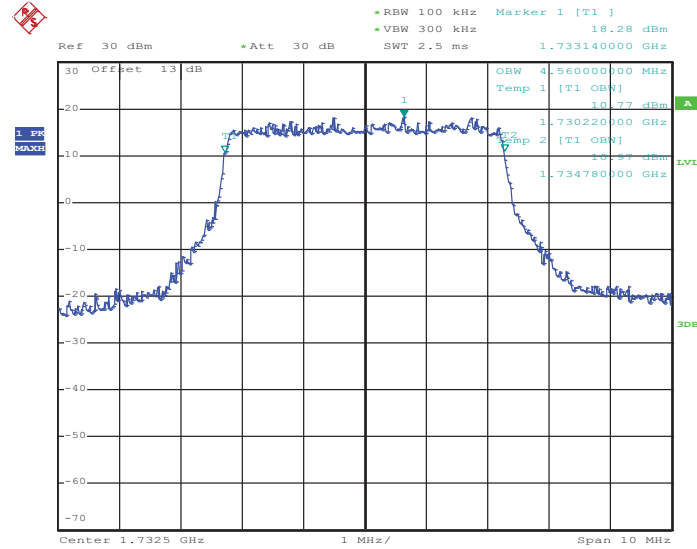


Date: 27.JUN.2013 09:43:47



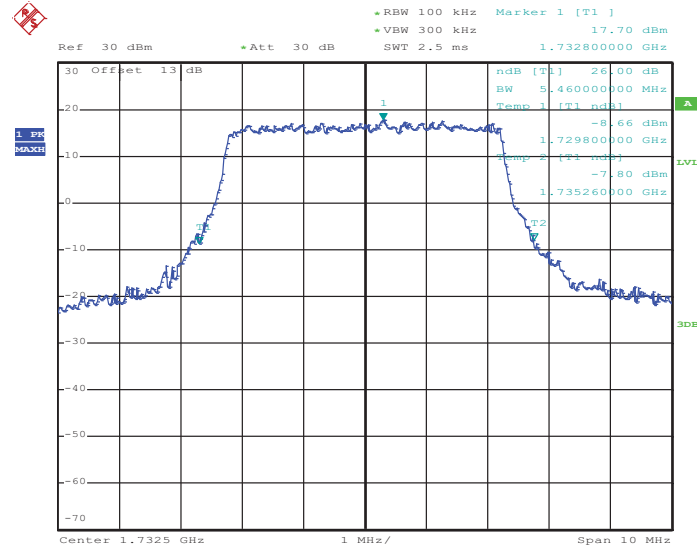
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:20:58

26dB Bandwidth Plot on Channel 20175

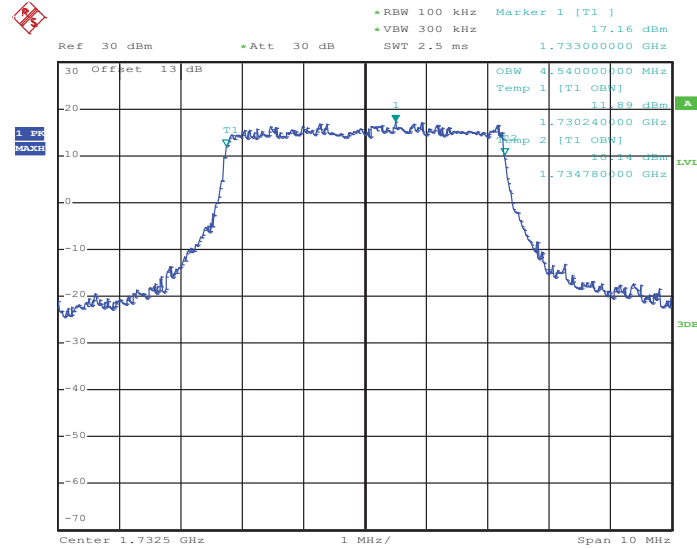


Date: 16.JUN.2013 11:07:47



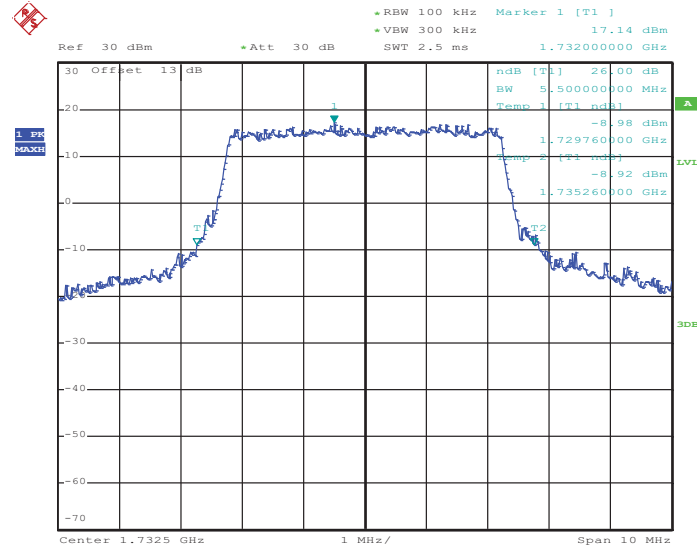
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:20:41

26dB Bandwidth Plot on Channel 20175

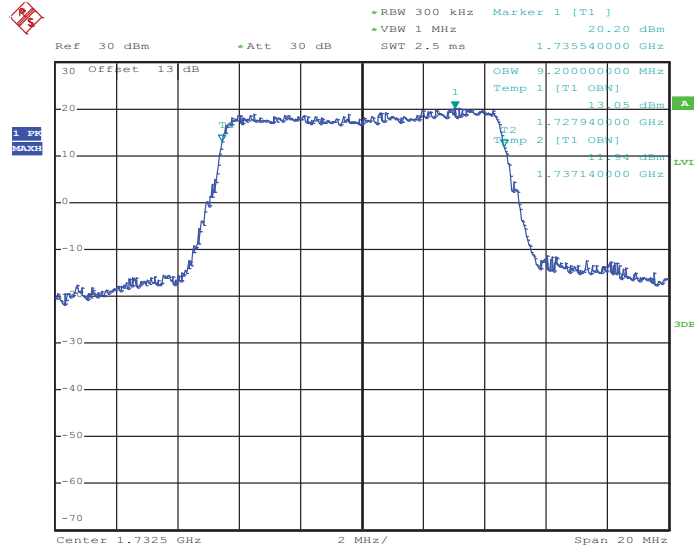


Date: 16.JUN.2013 11:07:11



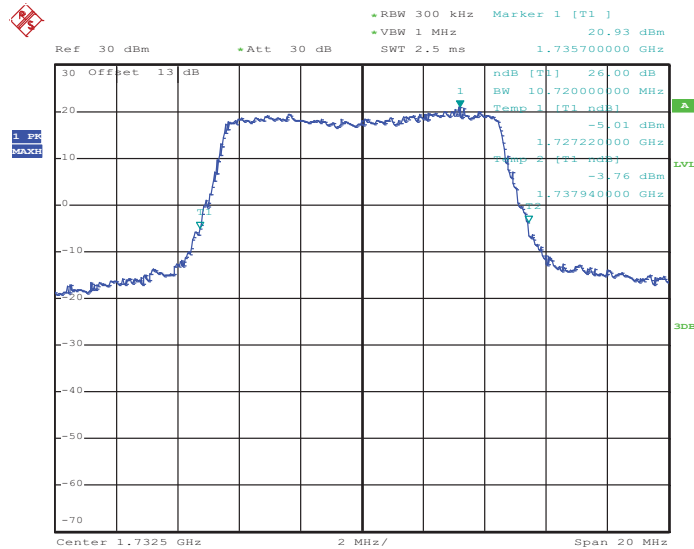
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:17:05

26dB Bandwidth Plot on Channel 20175

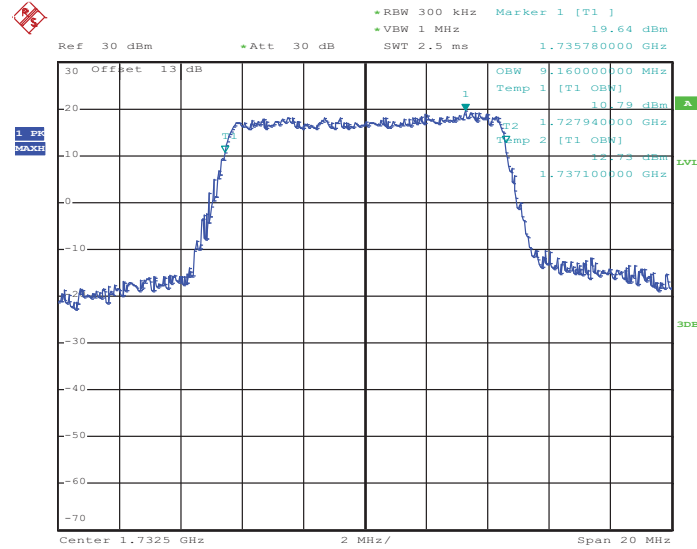


Date: 16.JUN.2013 10:53:41



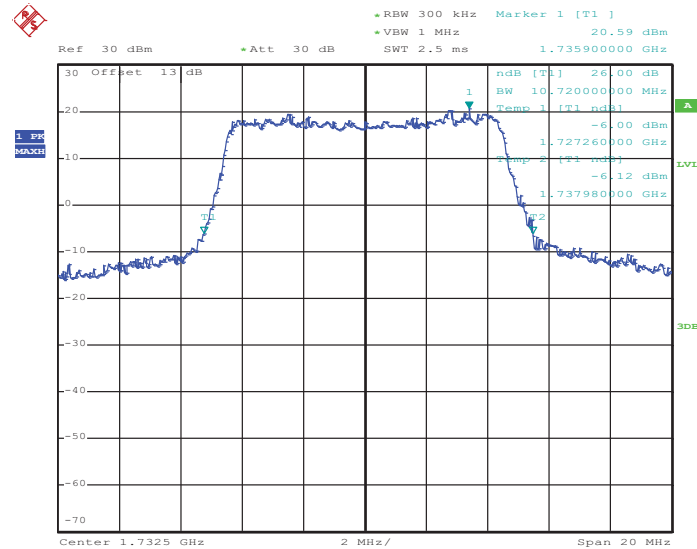
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:17:20

26dB Bandwidth Plot on Channel 20175

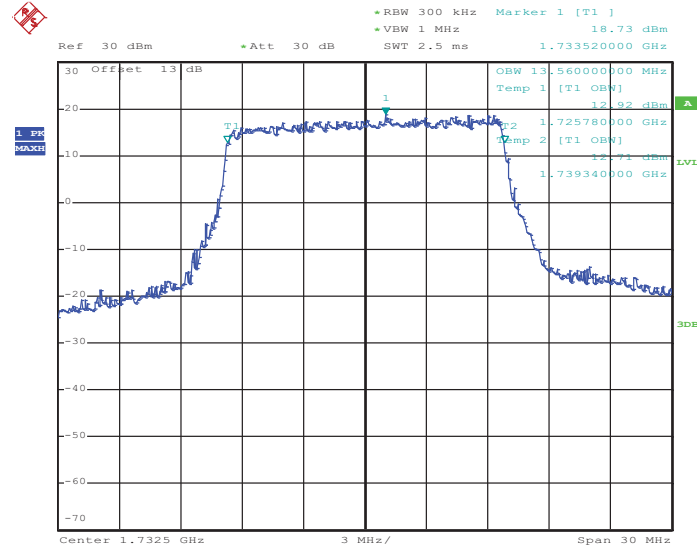


Date: 16.JUN.2013 10:54:02



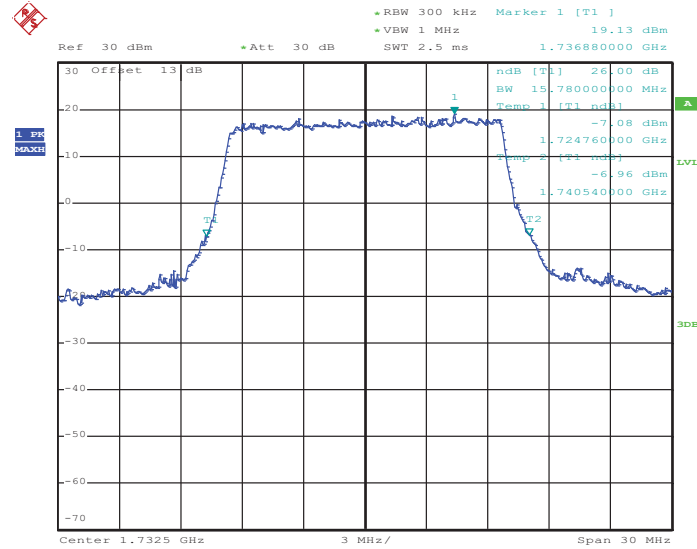
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:15:33

26dB Bandwidth Plot on Channel 20175

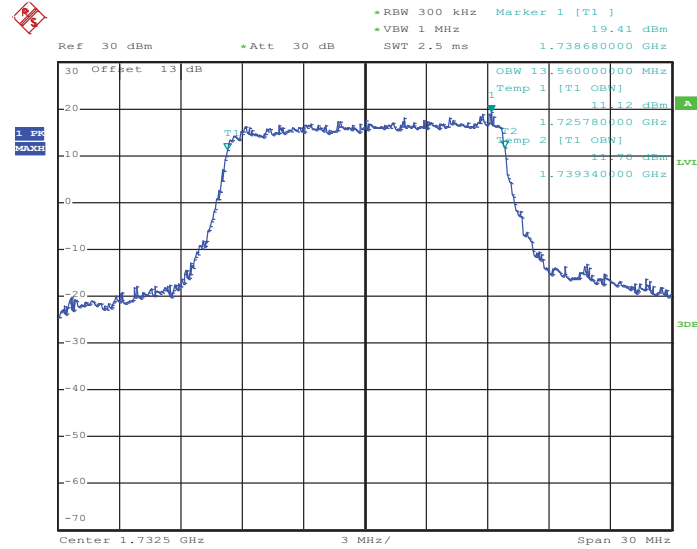


Date: 16.JUN.2013 10:22:48



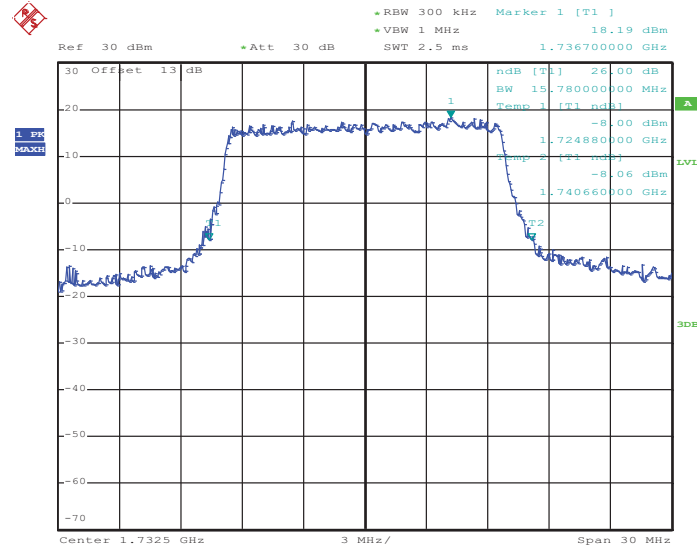
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:15:14

26dB Bandwidth Plot on Channel 20175

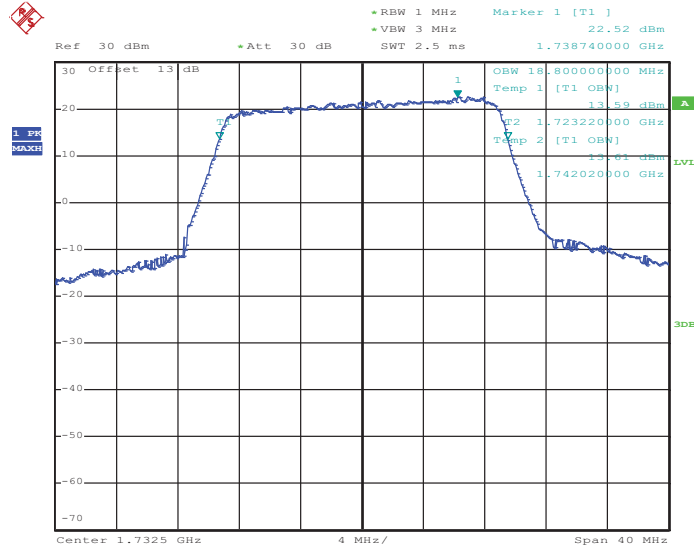


Date: 16.JUN.2013 10:24:11



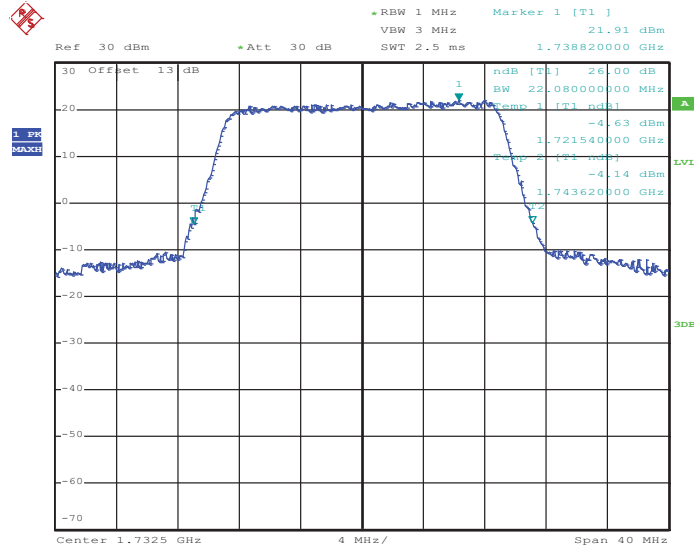
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:12:06

26dB Bandwidth Plot on Channel 20175

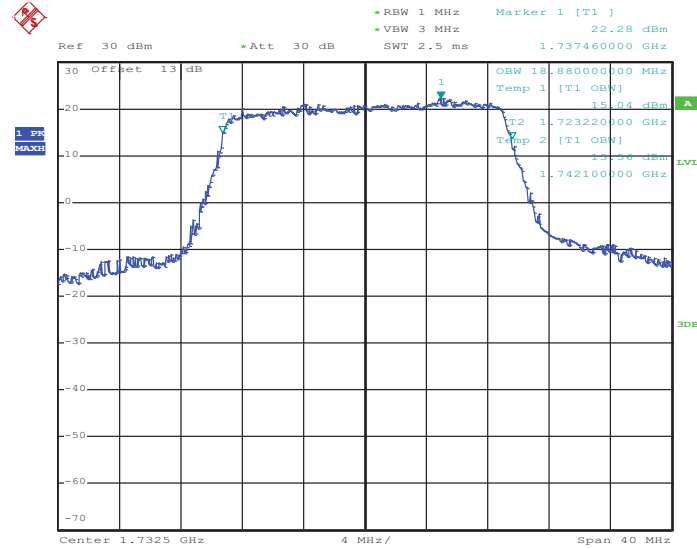


Date: 16.JUN.2013 10:14:22



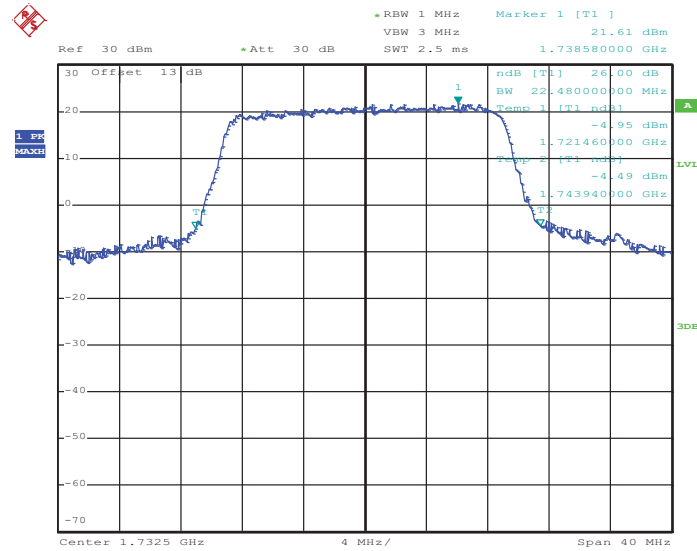
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2013 14:12:40

26dB Bandwidth Plot on Channel 20175

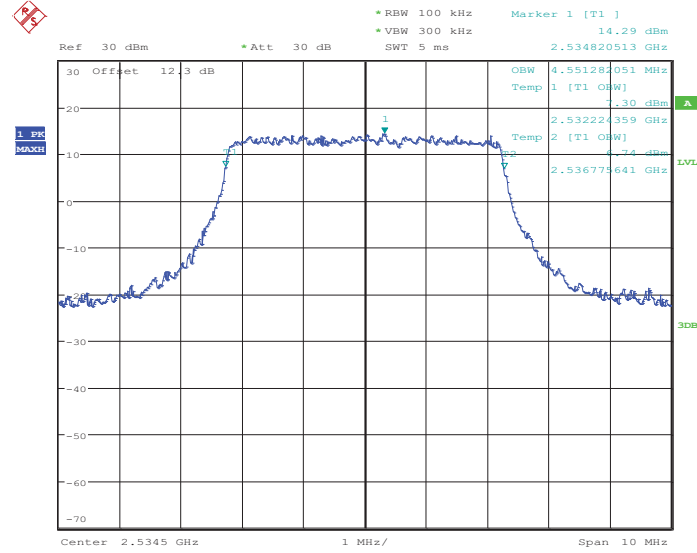


Date: 16.JUN.2013 10:15:46



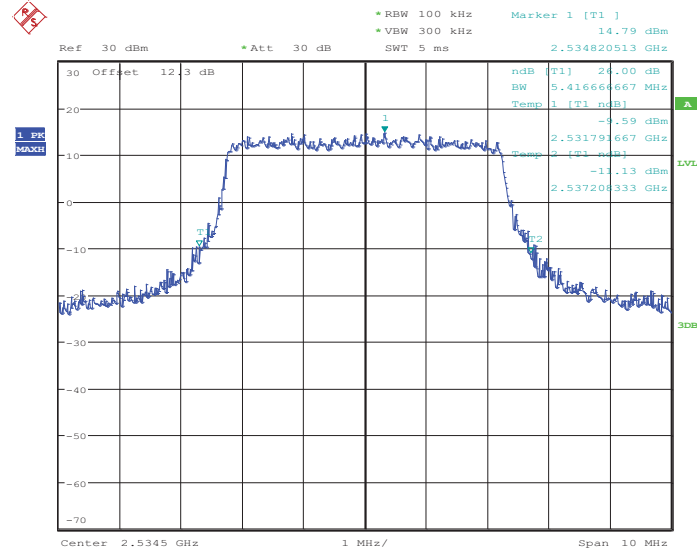
Band :	LTE Band 7	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 21095



Date: 18.JUN.2013 17:18:16

26dB Bandwidth Plot on Channel 21095

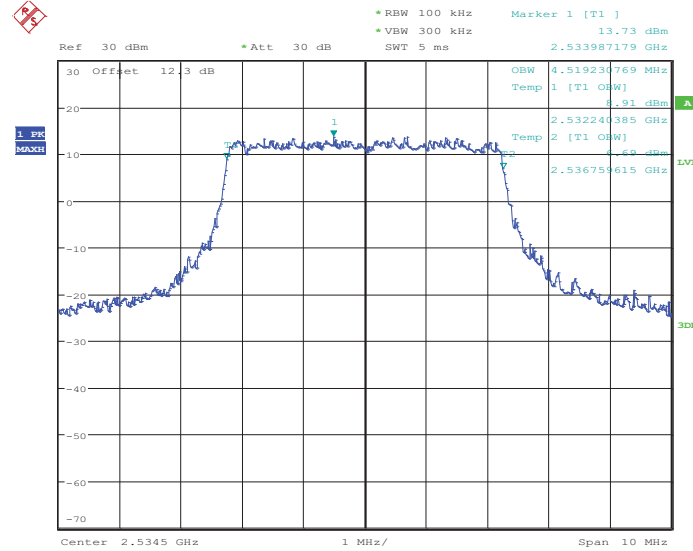


Date: 18.JUN.2013 17:16:11



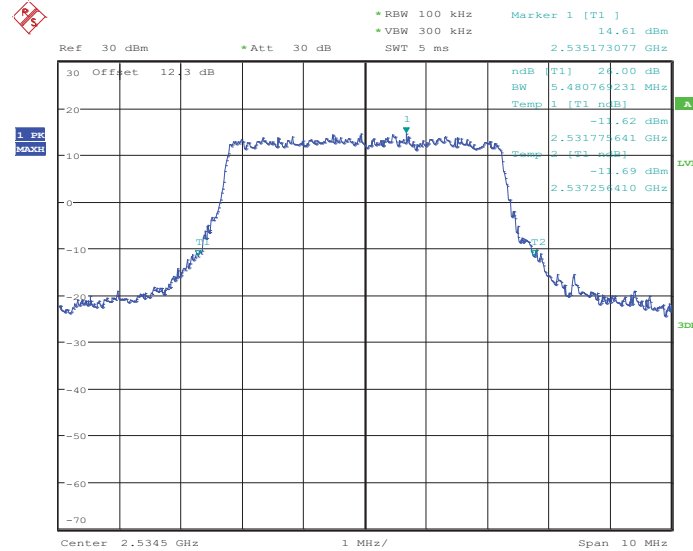
Band :	LTE Band 7	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 21095



Date: 18.JUN.2013 17:18:37

26dB Bandwidth Plot on Channel 21095

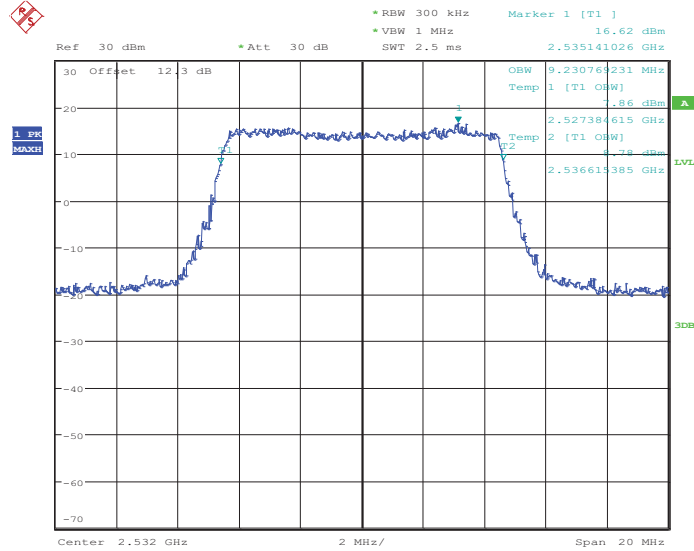


Date: 18.JUN.2013 17:16:01



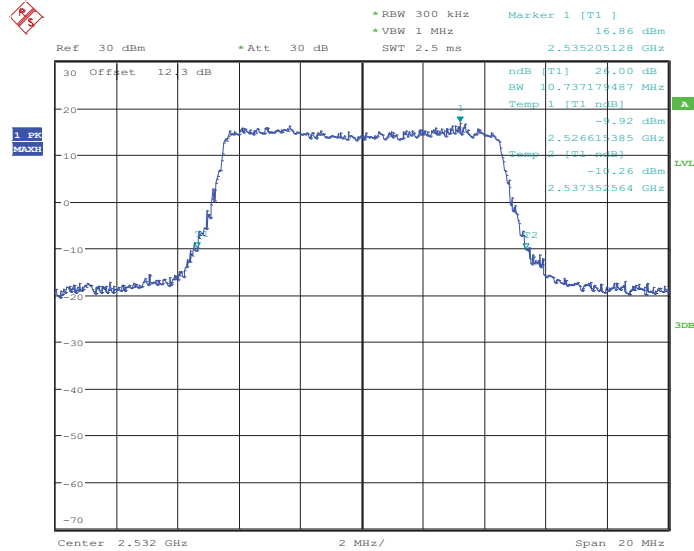
Band :	LTE Band 7	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 21070



Date: 18.JUN.2013 17:25:23

26dB Bandwidth Plot on Channel 21070

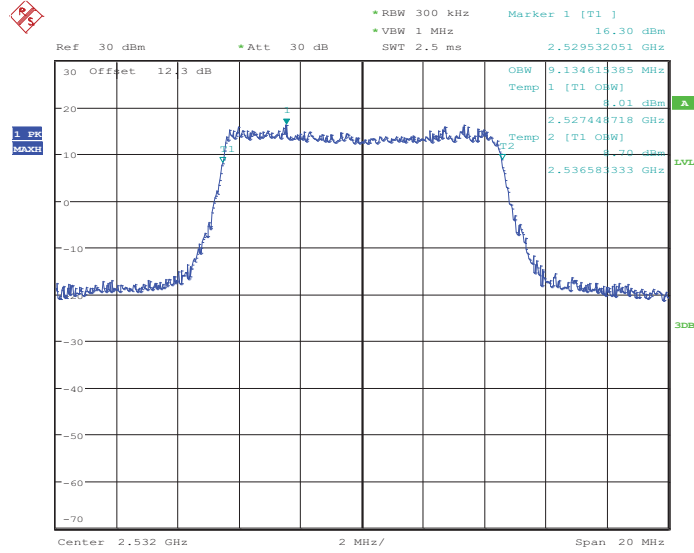


Date: 18.JUN.2013 17:11:12



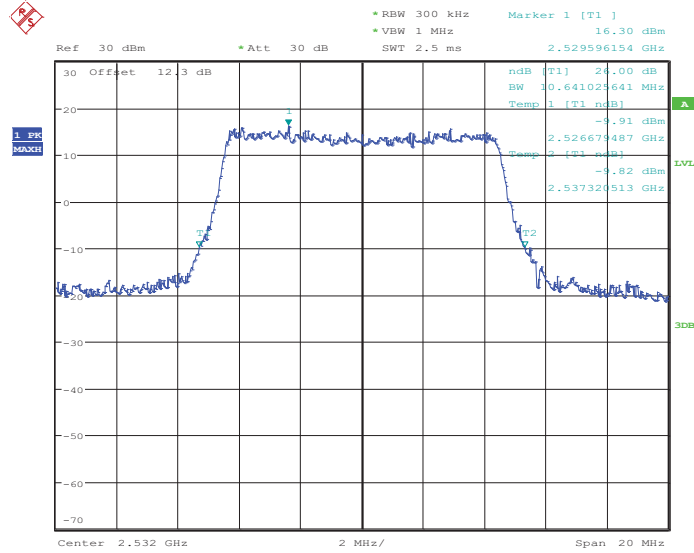
Band :	LTE Band 7	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 21070



Date: 18.JUN.2013 17:25:42

26dB Bandwidth Plot on Channel 21070

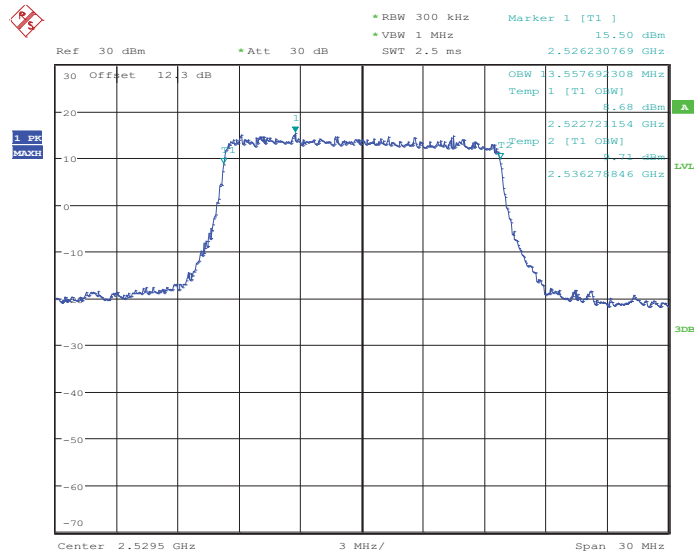


Date: 18.JUN.2013 17:11:27



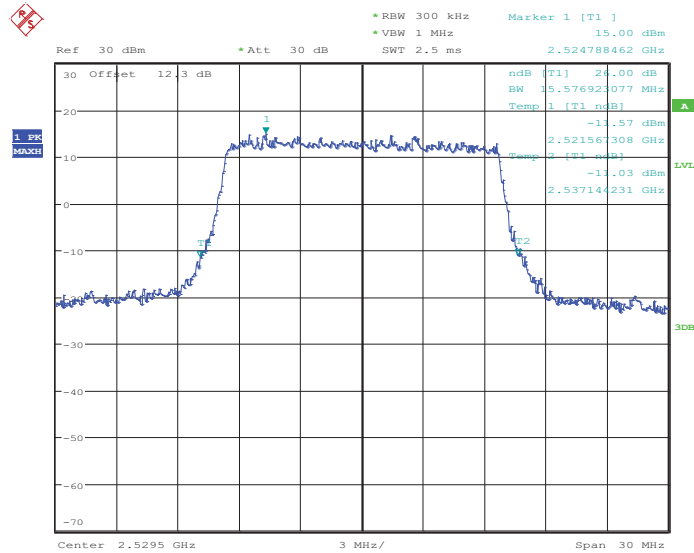
Band :	LTE Band 7	BW / Mod. :	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 21045



Date: 18.JUN.2013 17:30:42

26dB Bandwidth Plot on Channel 21045

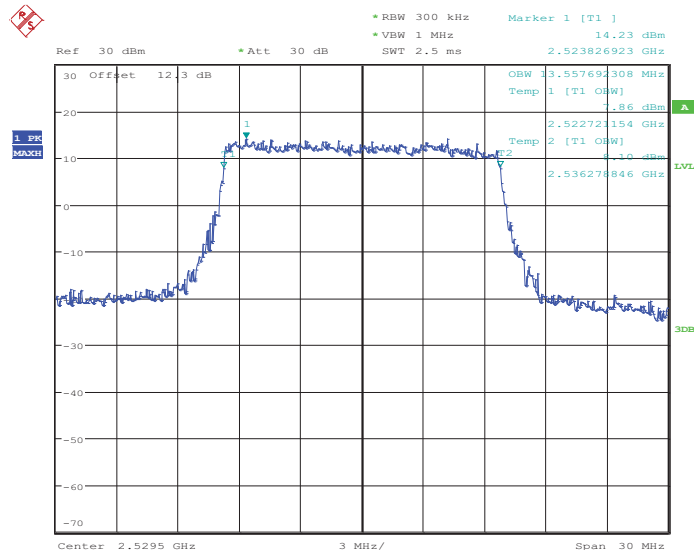


Date: 18.JUN.2013 17:09:49



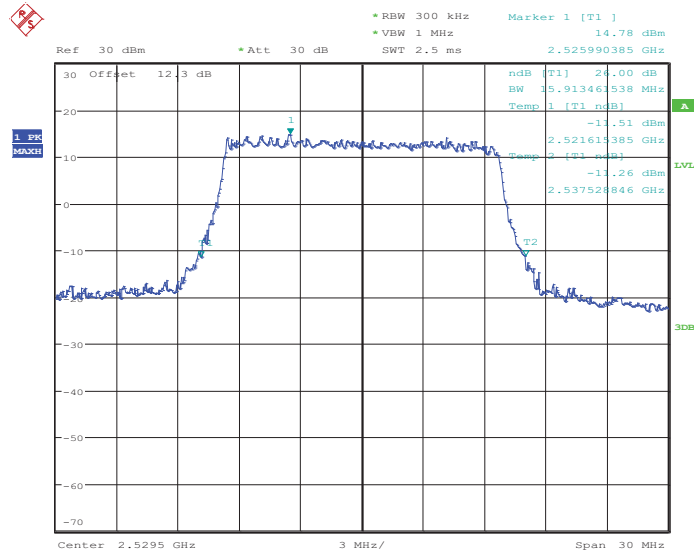
Band :	LTE Band 7	BW / Mod. :	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 21045



Date: 18.JUN.2013 17:30:55

26dB Bandwidth Plot on Channel 21045

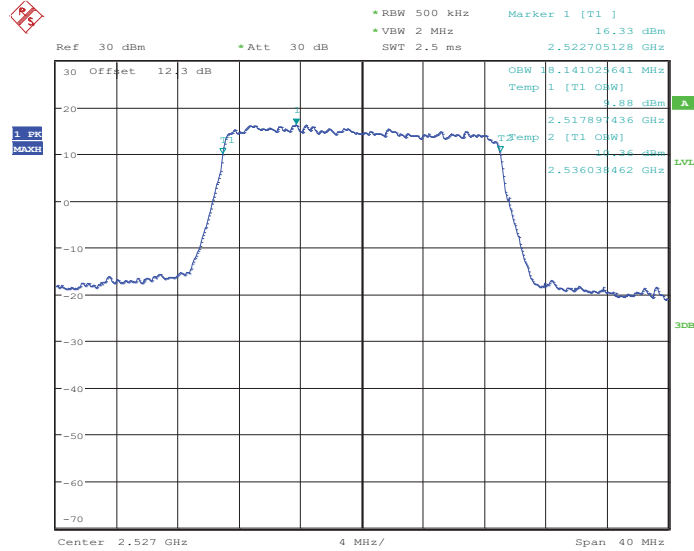


Date: 18.JUN.2013 17:09:17



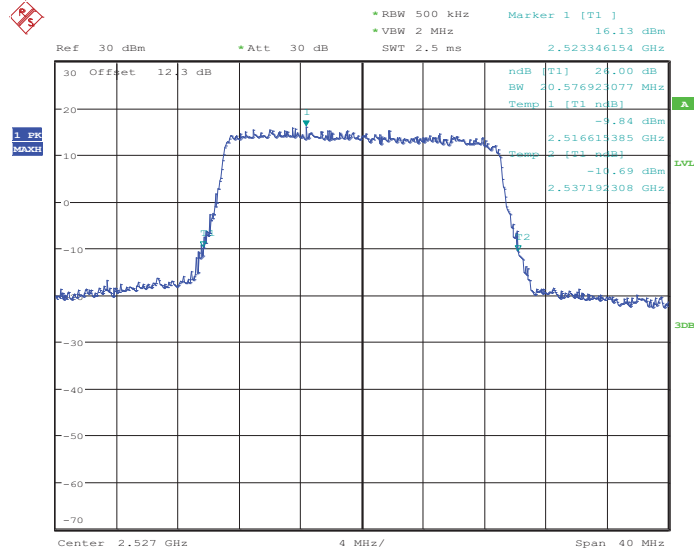
Band :	LTE Band 7	BW / Mod. :	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 21020



Date: 18.JUN.2013 17:41:51

26dB Bandwidth Plot on Channel 21020

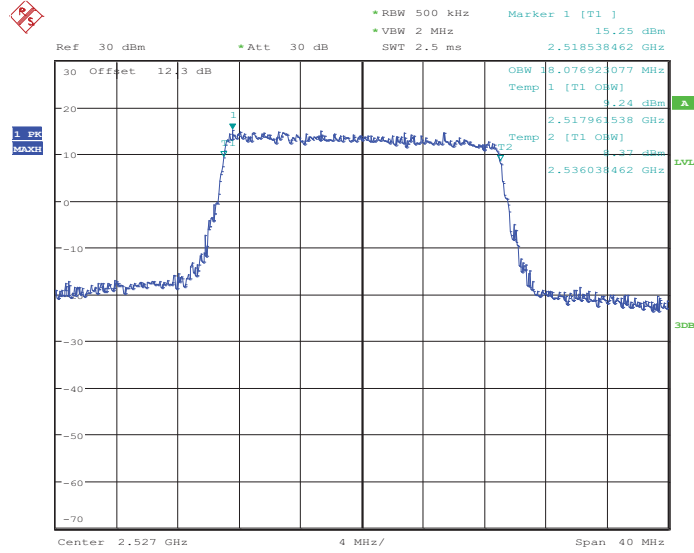


Date: 18.JUN.2013 17:06:24



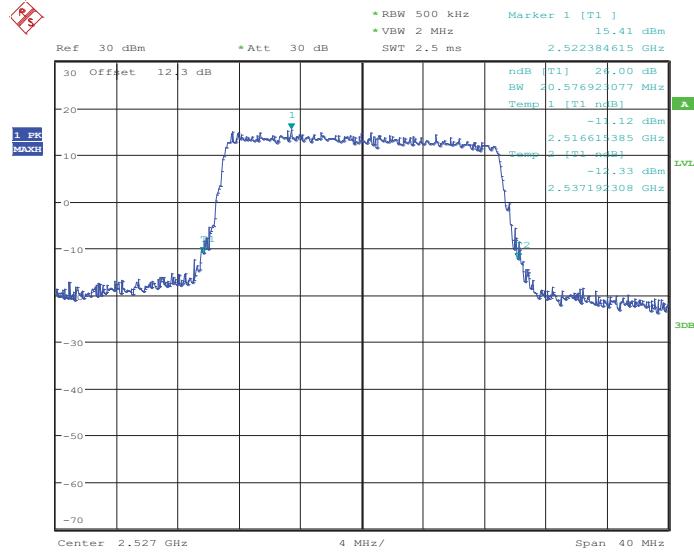
Band :	LTE Band 7	BW / Mod. :	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 21020



Date: 18.JUN.2013 17:42:05

26dB Bandwidth Plot on Channel 21020

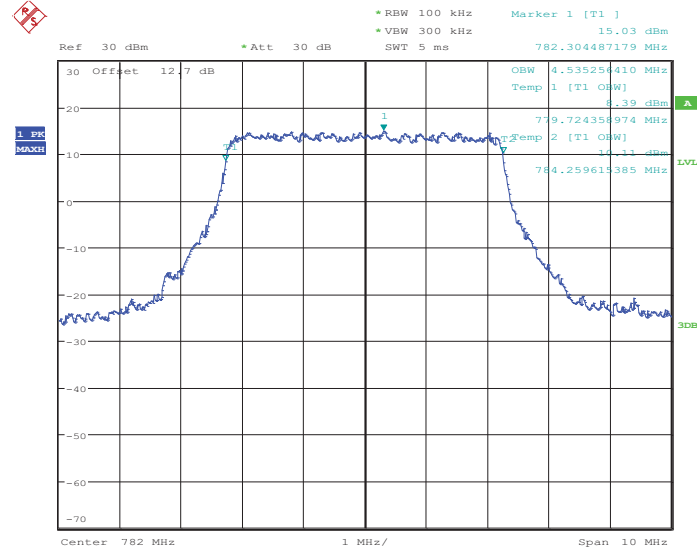


Date: 18.JUN.2013 17:06:35



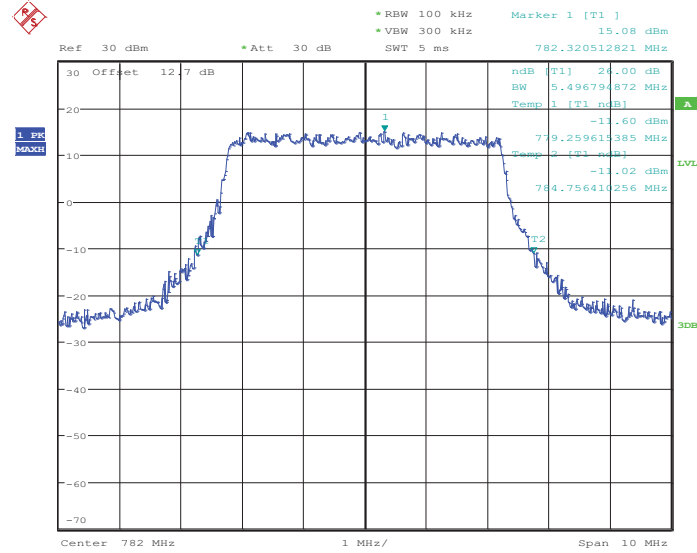
Band :	LTE Band 13	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 23230



Date: 17.JUN.2013 15:33:21

26dB Bandwidth Plot on Channel 23230

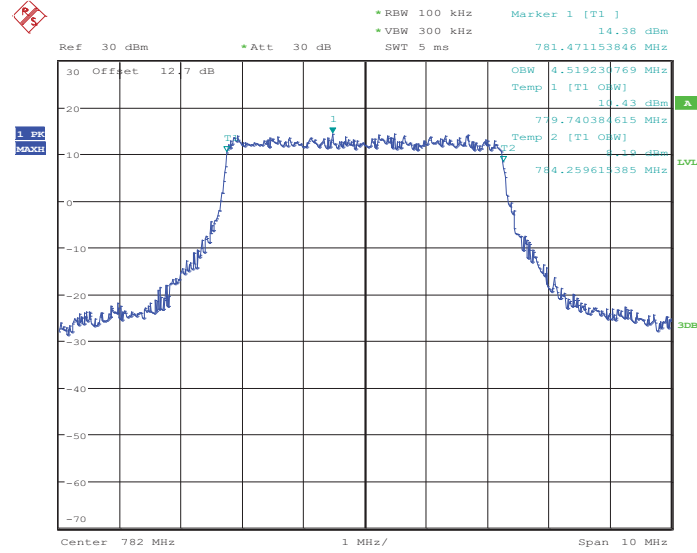


Date: 17.JUN.2013 15:28:32



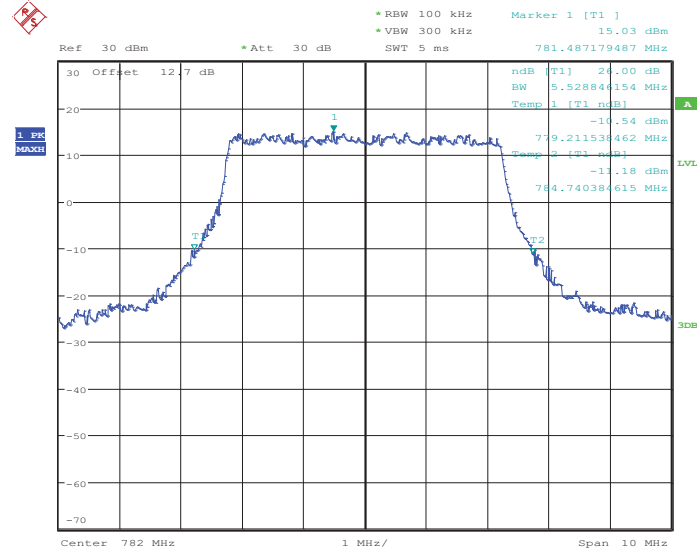
Band :	LTE Band 13	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 23230



Date: 17.JUN.2013 15:33:34

26dB Bandwidth Plot on Channel 23230

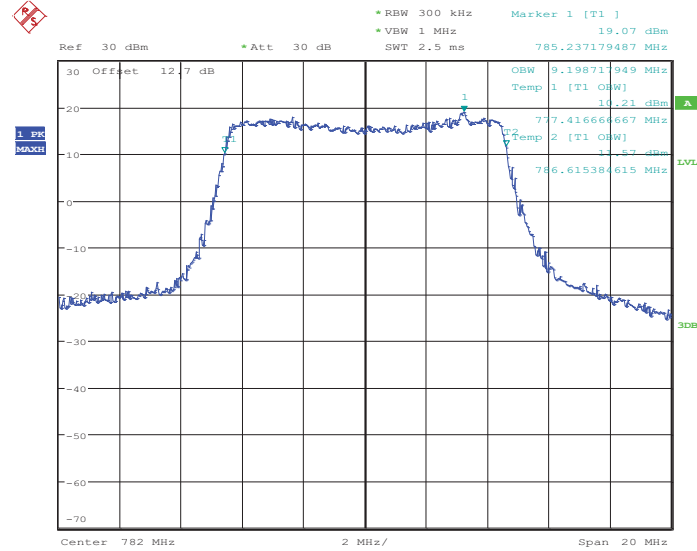


Date: 17.JUN.2013 15:28:18



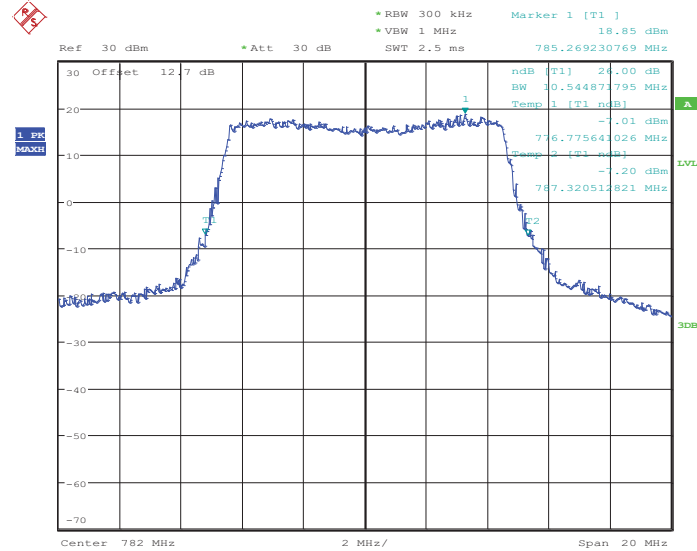
Band :	LTE Band 13	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 23230



Date: 17.JUN.2013 15:37:40

26dB Bandwidth Plot on Channel 23230

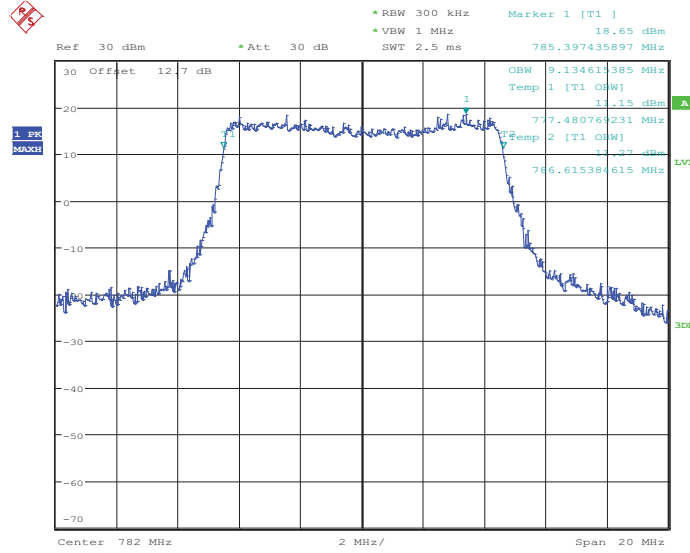


Date: 17.JUN.2013 15:27:07



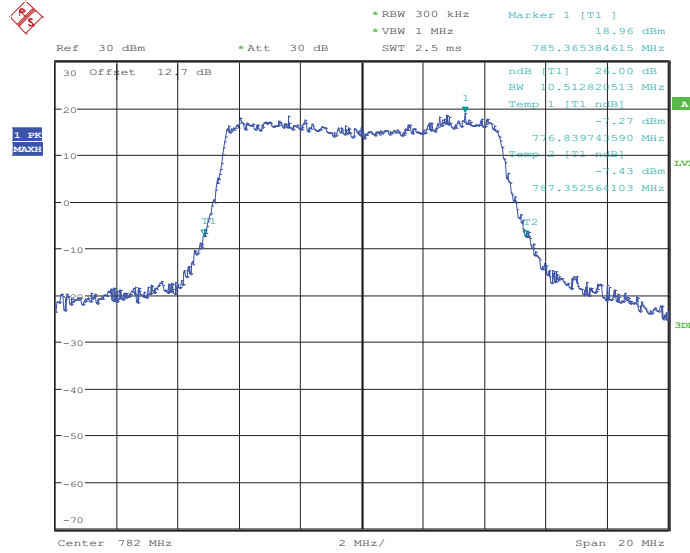
Band :	LTE Band 13	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 23230



Date: 17.JUN.2013 15:37:53

26dB Bandwidth Plot on Channel 23230

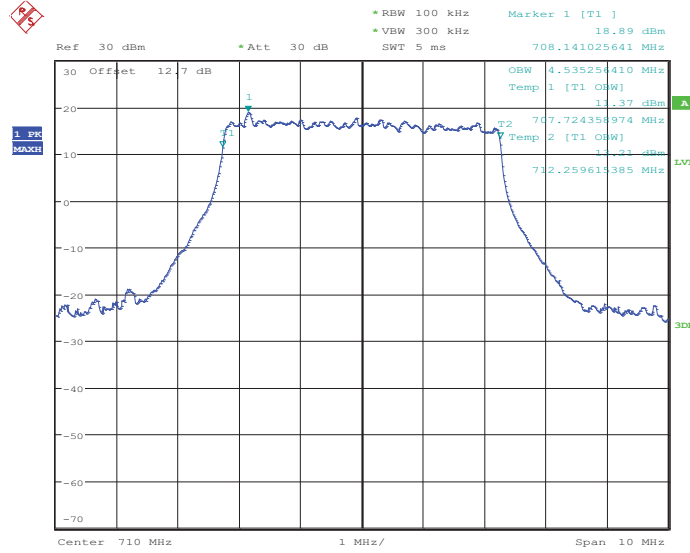


Date: 17.JUN.2013 15:27:24



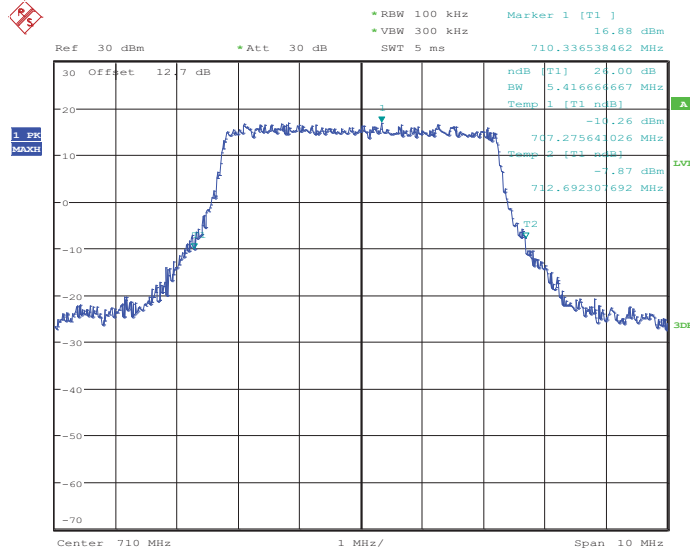
Band :	LTE Band 17	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 23790



Date: 18.JUN.2013 13:53:34

26dB Bandwidth Plot on Channel 23790

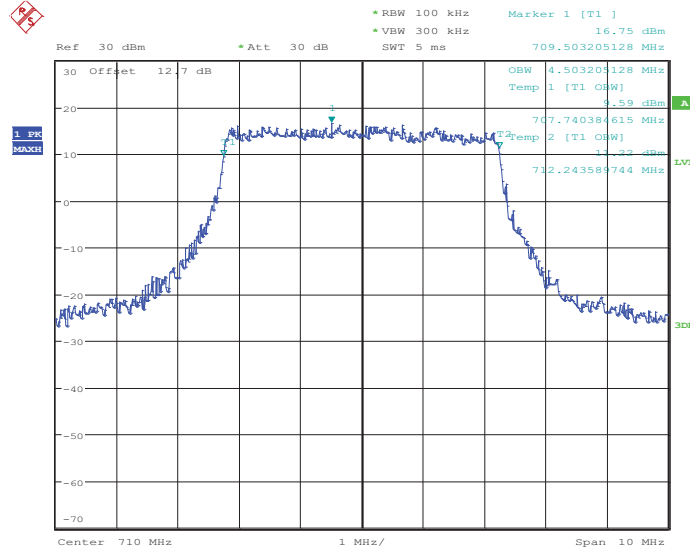


Date: 18.JUN.2013 16:01:48



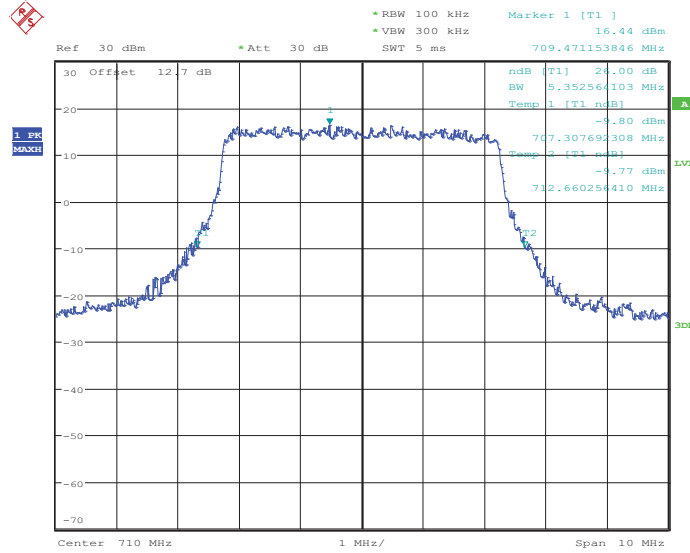
Band :	LTE Band 17	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 23790



Date: 18.JUN.2013 13:53:52

26dB Bandwidth Plot on Channel 23790

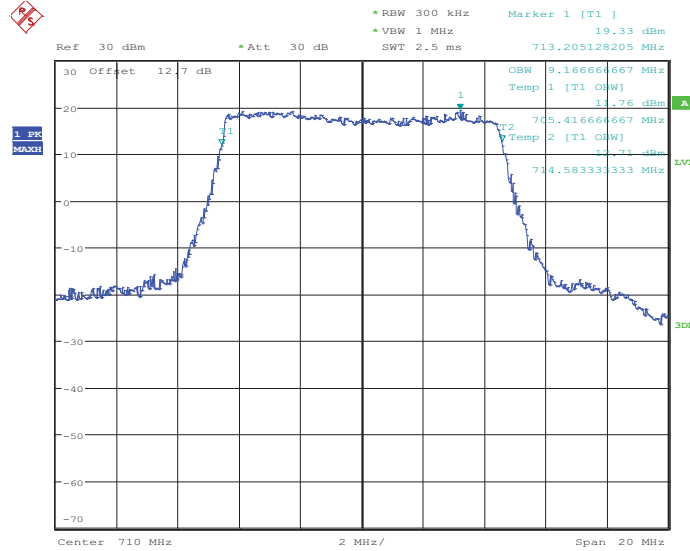


Date: 18.JUN.2013 16:01:34



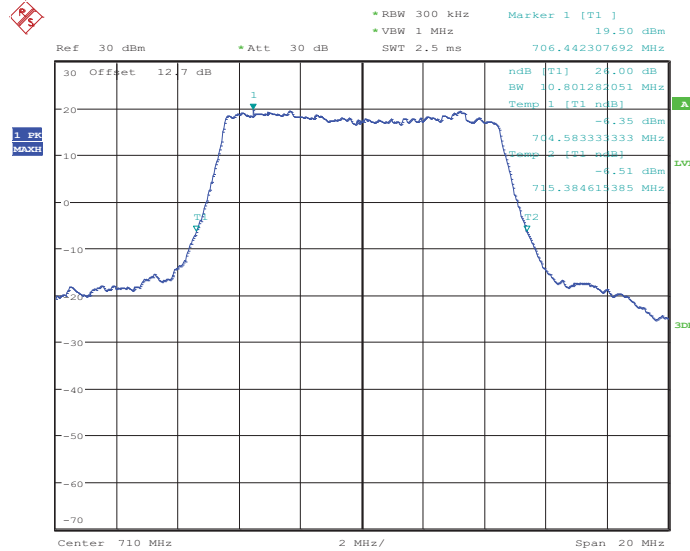
Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 23790



Date: 18.JUN.2013 13:56:45

26dB Bandwidth Plot on Channel 23790

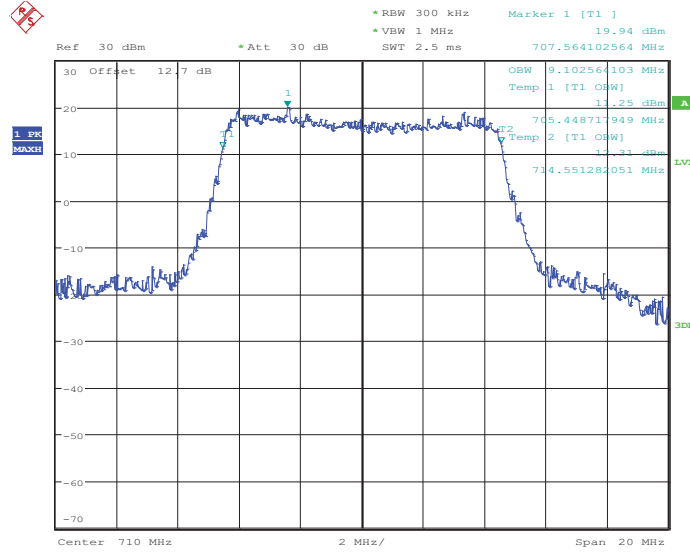


Date: 18.JUN.2013 16:00:23



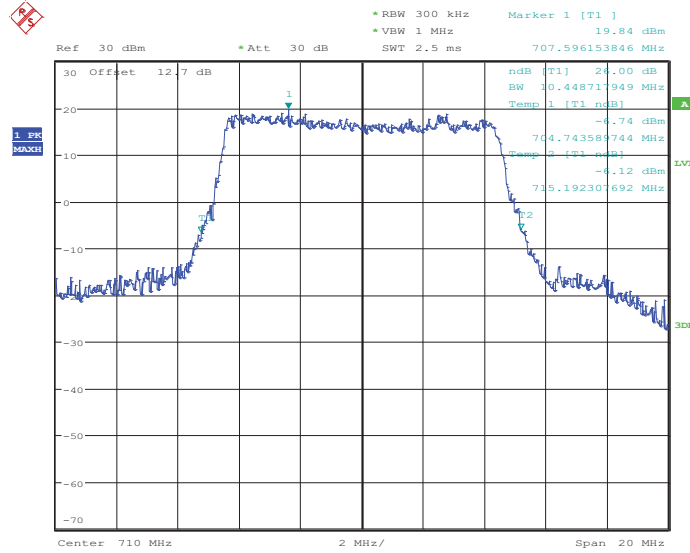
Band :	LTE Band 17	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 23790



Date: 18.JUN.2013 13:56:58

26dB Bandwidth Plot on Channel 23790



Date: 18.JUN.2013 16:00:44

3.4 Conducted Band Edge Measurement

3.4.1 Description of Conducted Band Edge Measurement

22.917(a) For Band 5

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a) For Band 2

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

27.53 (c) For Band 13

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (g) For Band 17

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

27.53 (h) For Band 4

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



27.53 (m) For Band 7

The emissions be operated in the 2496-2690 MHz band, the attenuation factor of transmitter Power (P) shall be not less than $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5MHz from the channel edge.

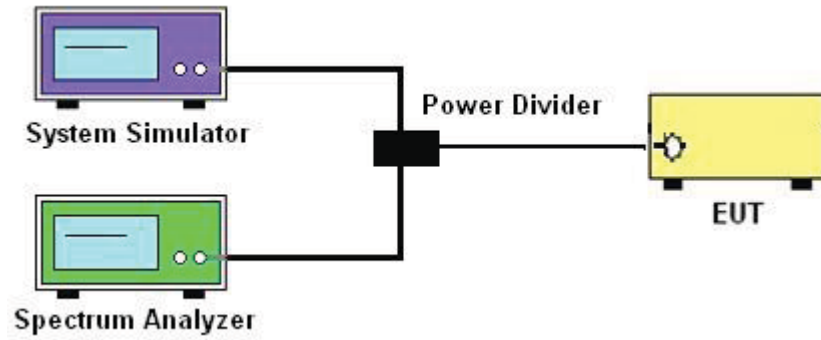
3.4.2 Measuring Instruments

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 Base Station via power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Setting $RBW \geq 1\%$ EBW, and measuring bandwidth = 1MHz.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
4. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
= -13dBm.
5. The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [55 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
= -25dBm.

3.4.4 Test Setup

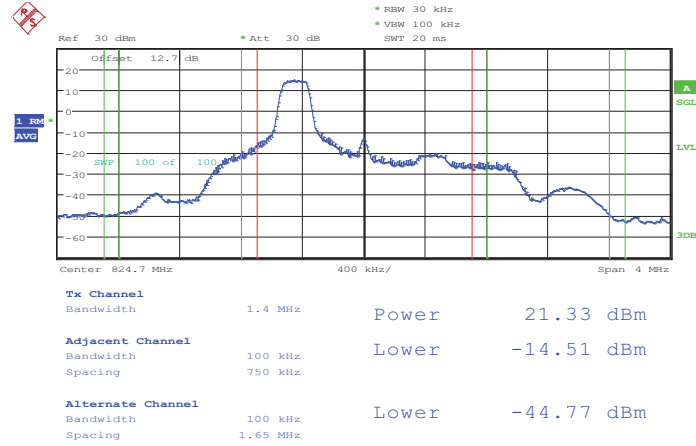




3.4.5 Test Result (Plots) of Conducted Band Edge

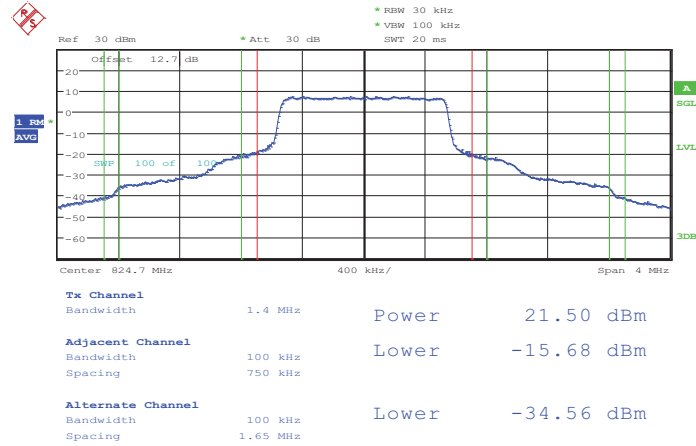
Band :	LTE Band 5	Band Width :	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 17.JUN.2013 13:40:34

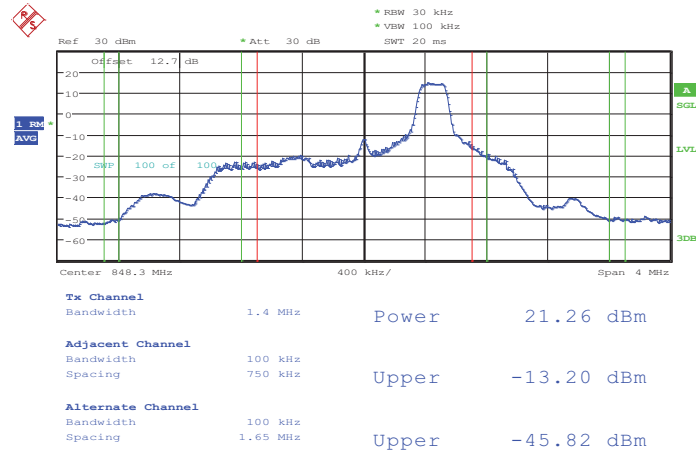
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 17.JUN.2013 13:41:02

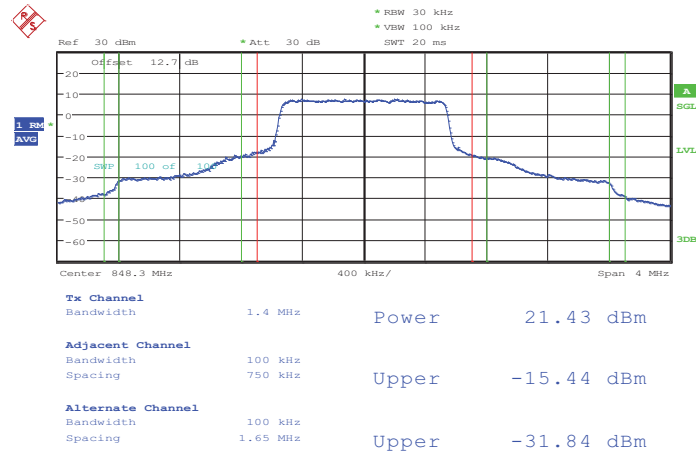


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



Date: 17.JUN.2013 13:38:43

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0

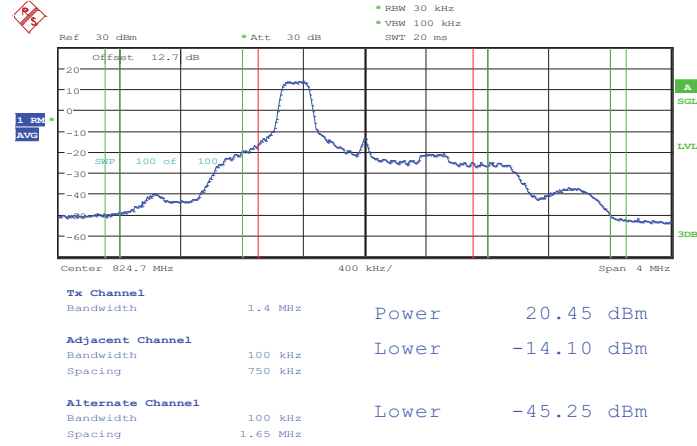


Date: 17.JUN.2013 13:36:52



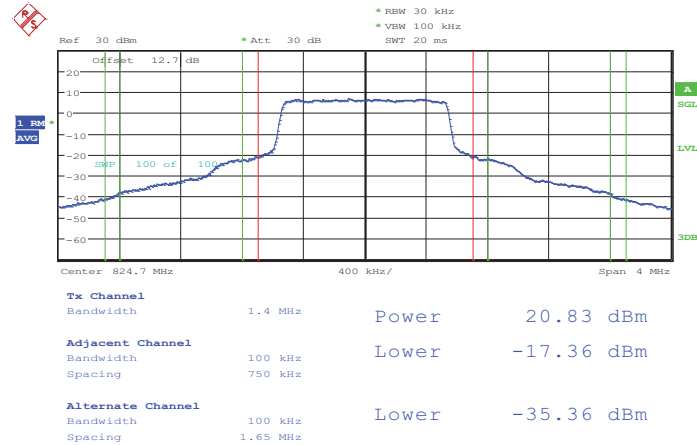
Band :	LTE Band 5	Band Width :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 17.JUN.2013 13:40:18

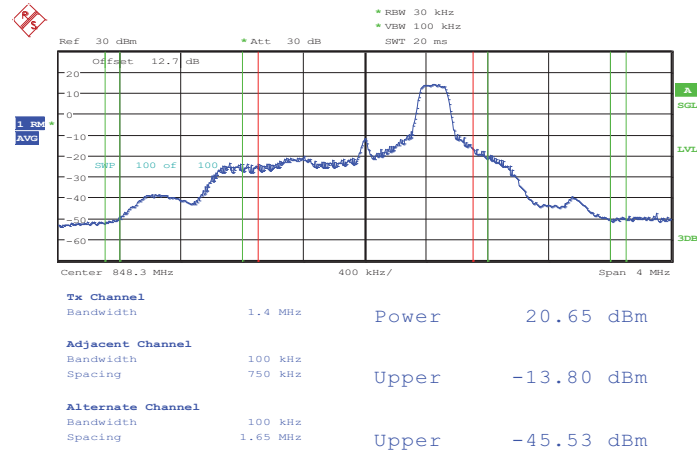
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 17.JUN.2013 13:41:21

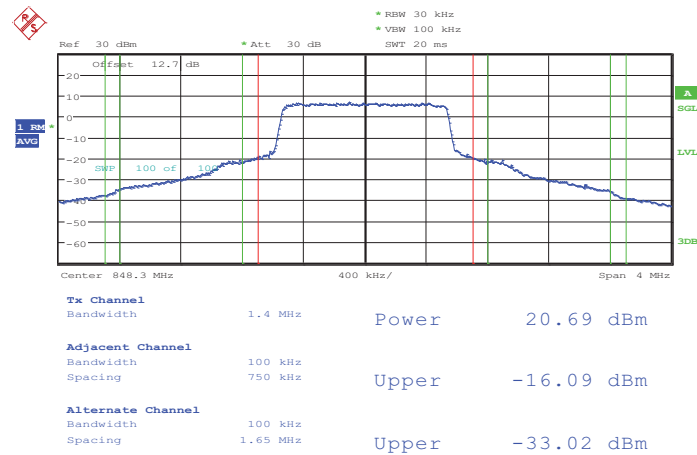


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



Date: 17.JUN.2013 13:39:02

Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0

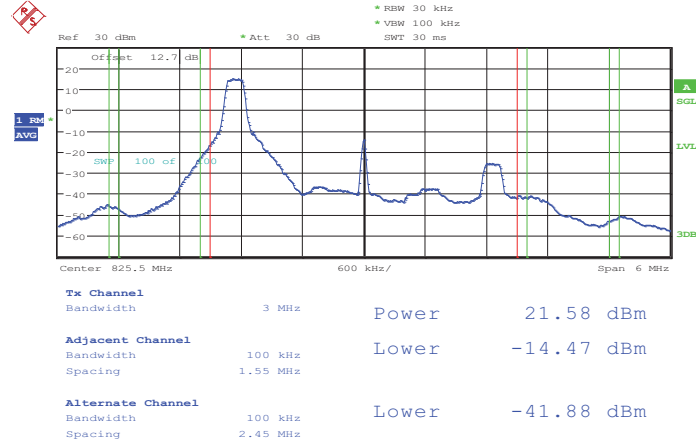


Date: 17.JUN.2013 13:37:12



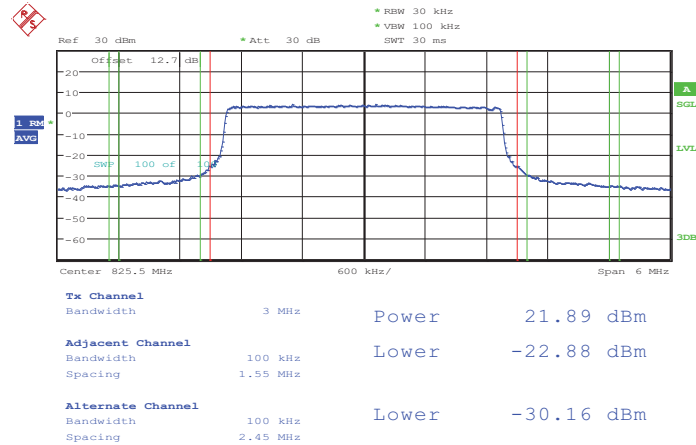
Band :	LTE Band 5	Band Width :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 17.JUN.2013 11:56:52

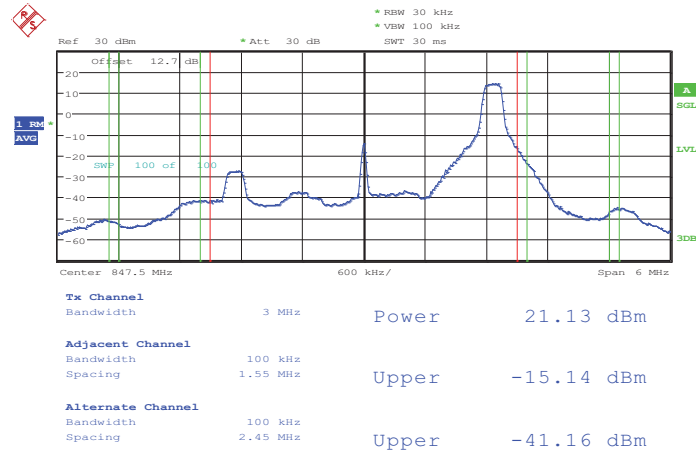
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 17.JUN.2013 11:57:55

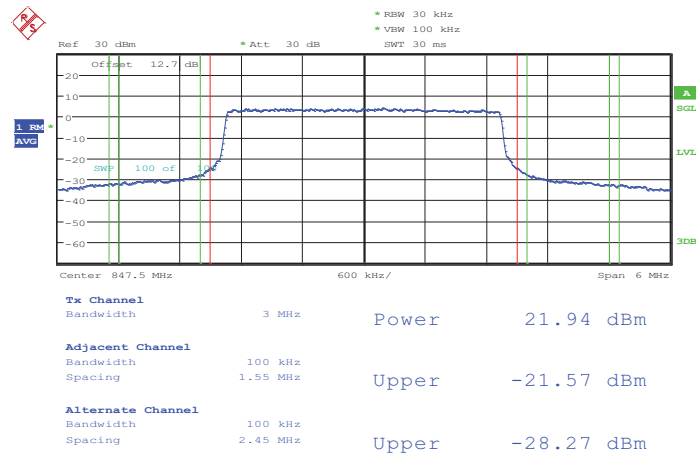


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 17.JUN.2013 12:00:14

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0

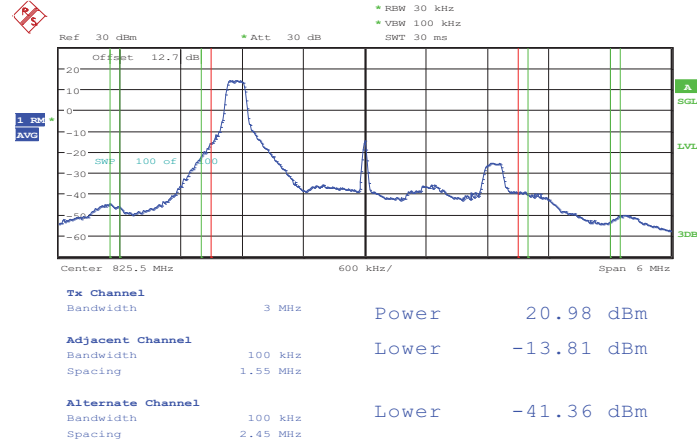


Date: 17.JUN.2013 11:59:18



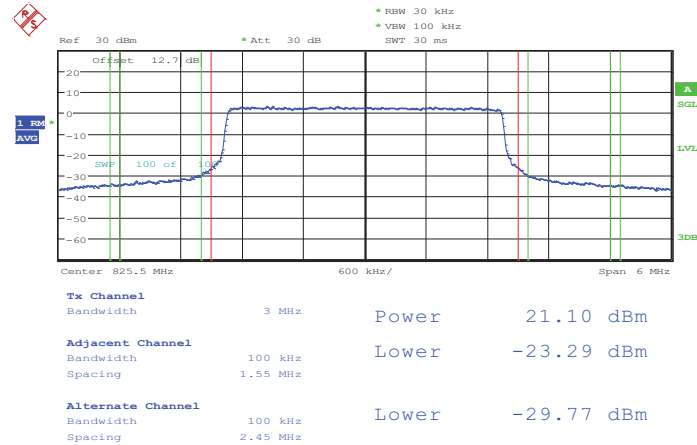
Band :	LTE Band 5	Band Width :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 17.JUN.2013 11:57:11

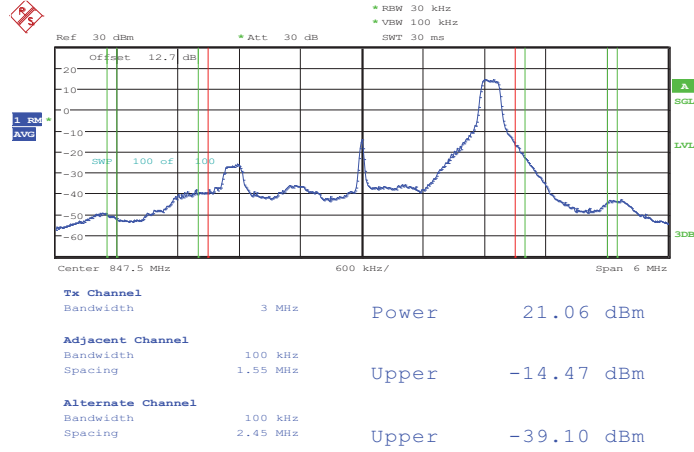
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 17.JUN.2013 11:57:40

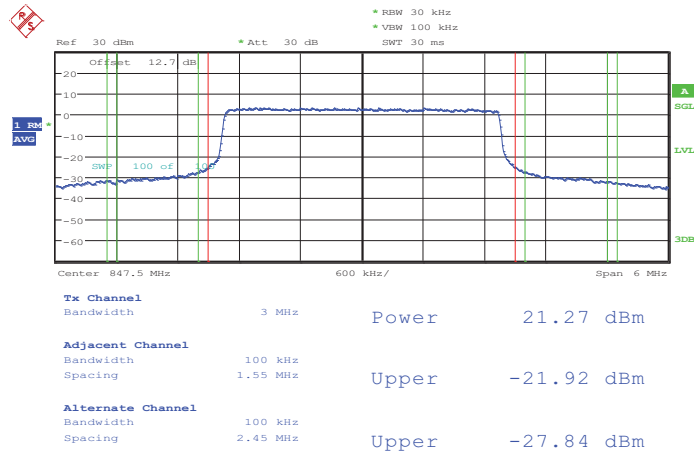


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 17.JUN.2013 11:59:58

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0

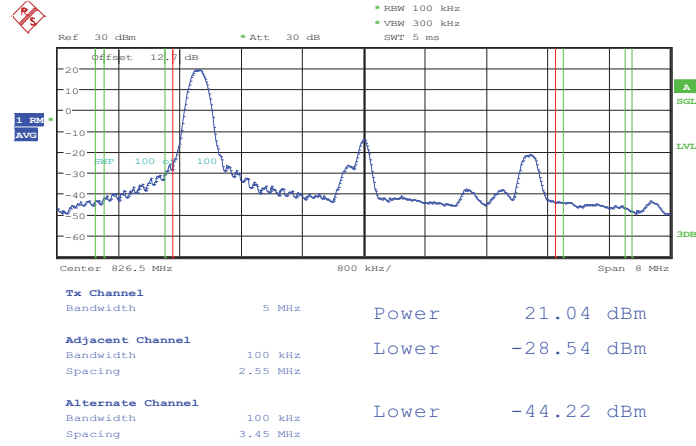


Date: 17.JUN.2013 11:59:36



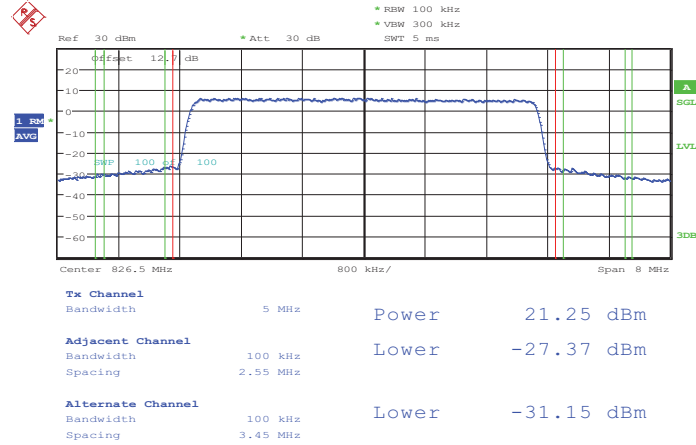
Band :	LTE Band 5	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 17.JUN.2013 11:49:24

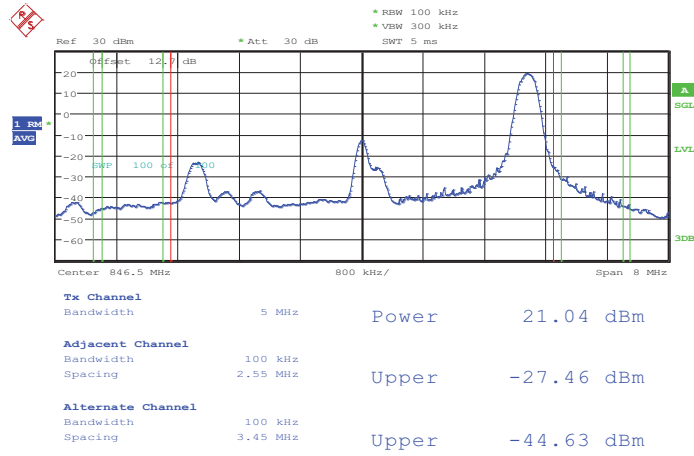
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 17.JUN.2013 11:49:41

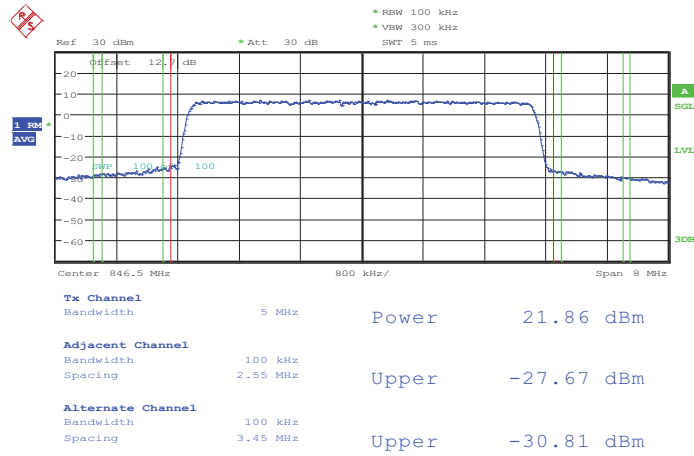


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 17.JUN.2013 11:47:42

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

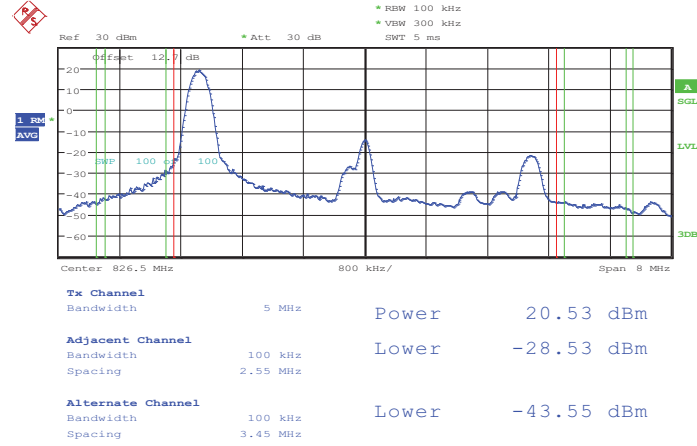


Date: 17.JUN.2013 11:45:24



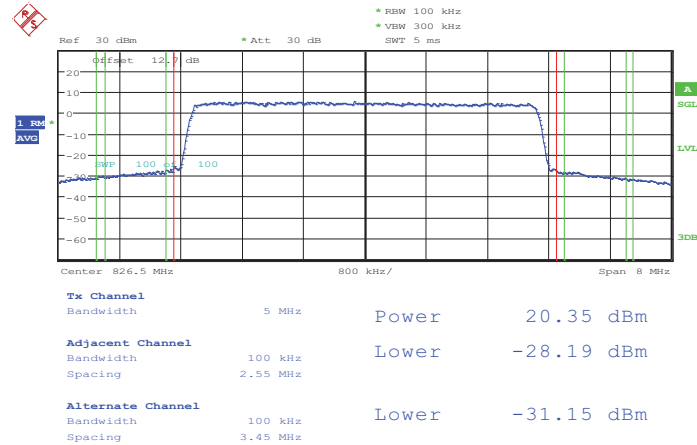
Band :	LTE Band 5	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 17.JUN.2013 11:49:10

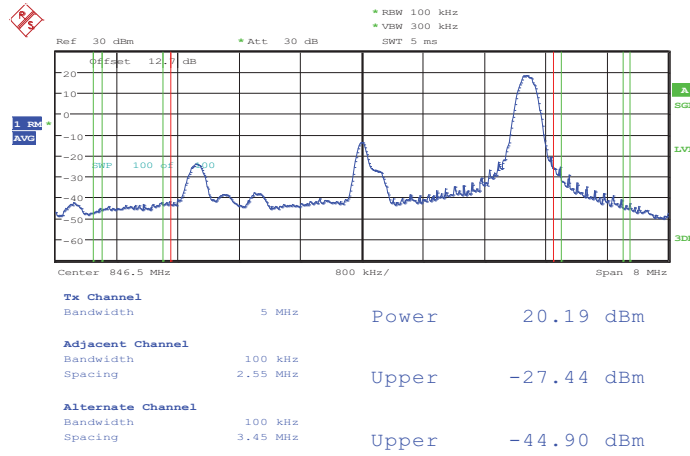
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 17.JUN.2013 11:49:59

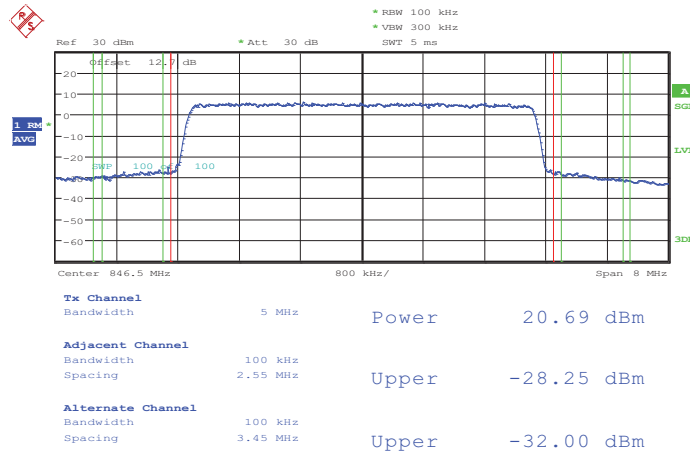


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 17.JUN.2013 11:47:57

Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0

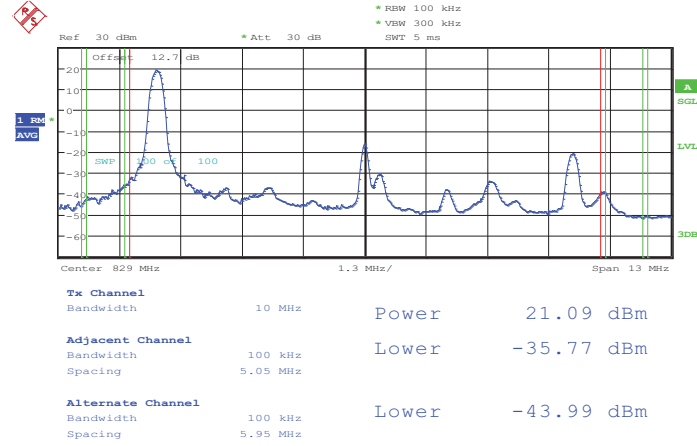


Date: 17.JUN.2013 11:45:44



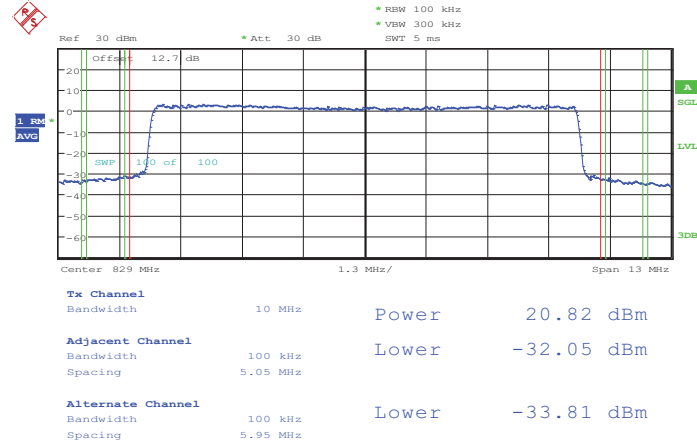
Band :	LTE Band 5	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 17.JUN.2013 11:40:15

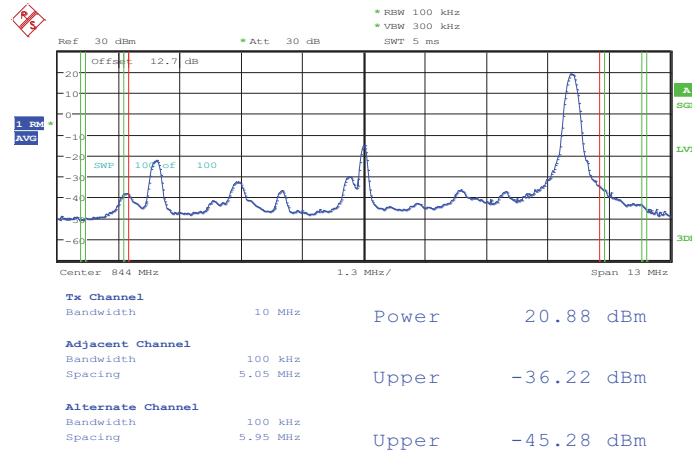
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 17.JUN.2013 11:39:21

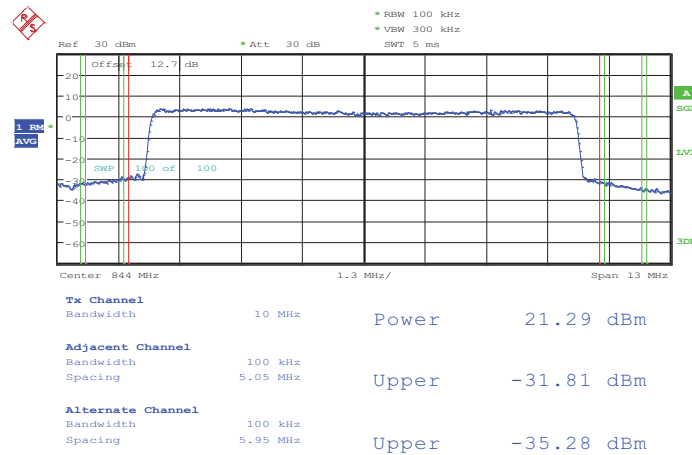


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 17.JUN.2013 11:41:04

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

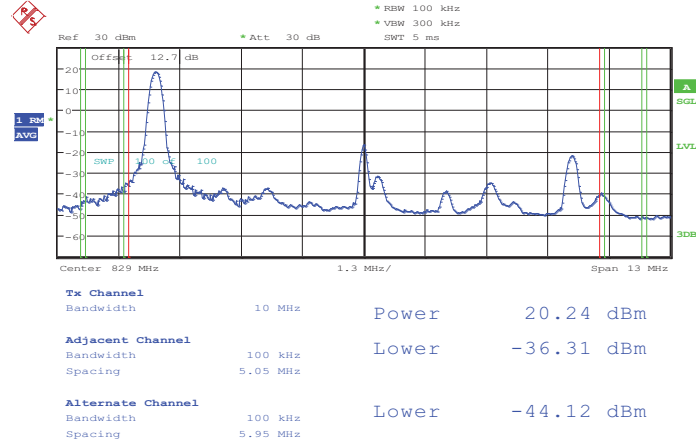


Date: 17.JUN.2013 11:42:06



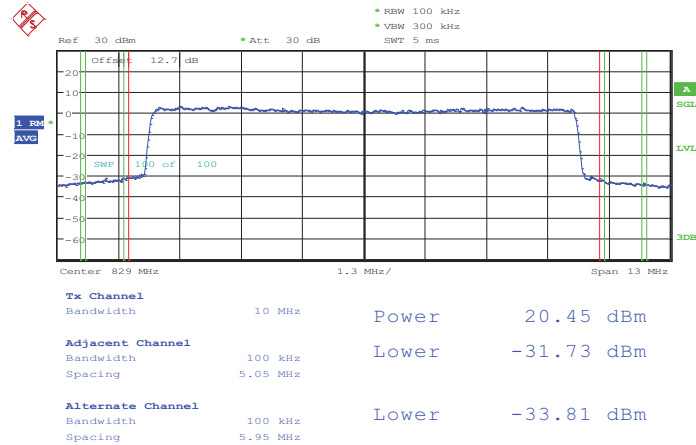
Band :	LTE Band 5	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 17.JUN.2013 11:40:00

Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 17.JUN.2013 11:39:42

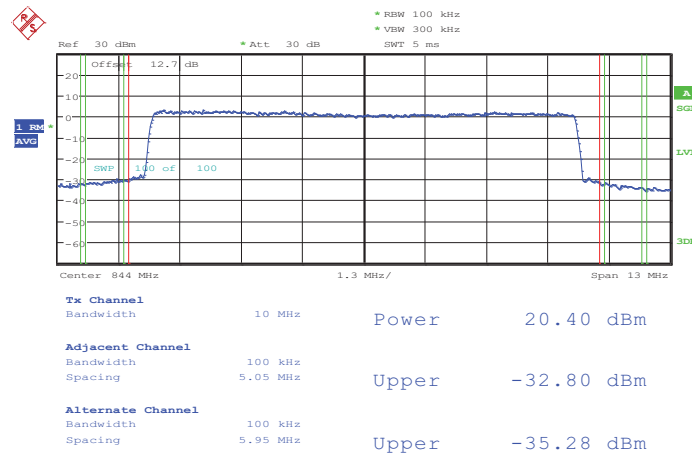


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 17.JUN.2013 11:41:22

Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0

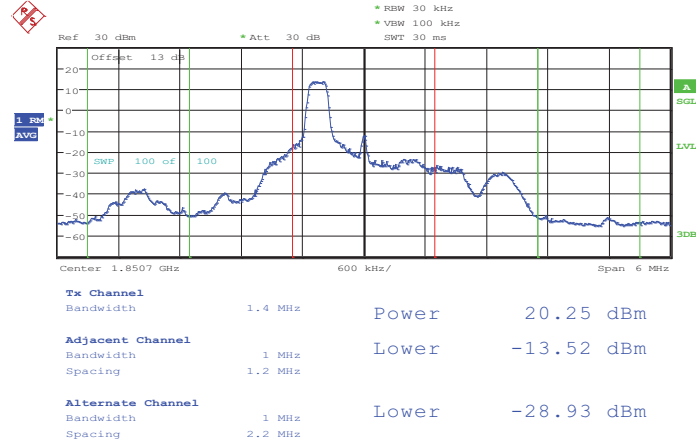


Date: 17.JUN.2013 11:41:50



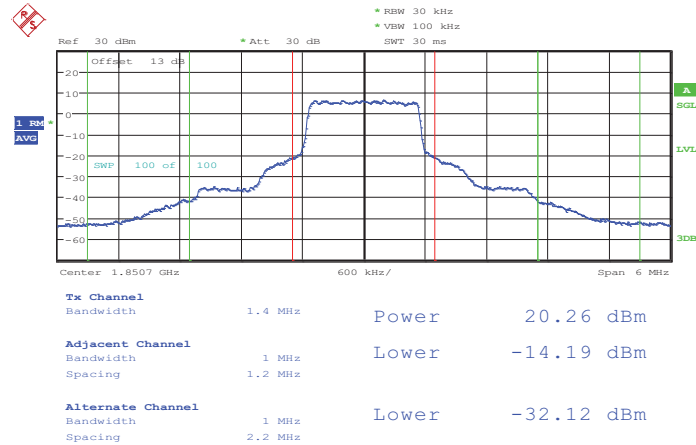
Band :	LTE Band 2	Band Width :	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.JUN.2013 06:15:13

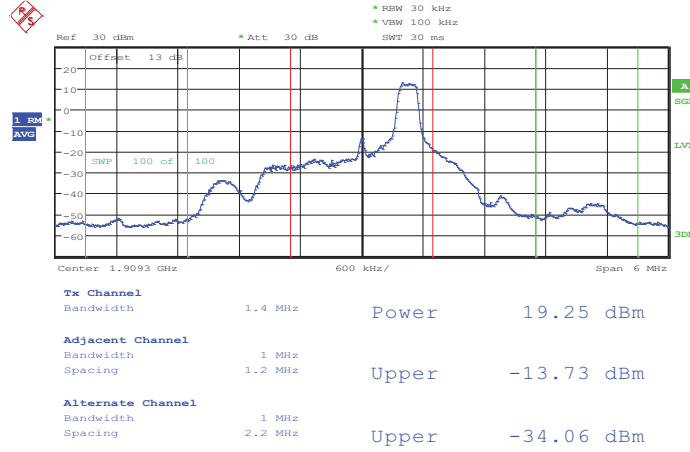
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 15.JUN.2013 06:14:28

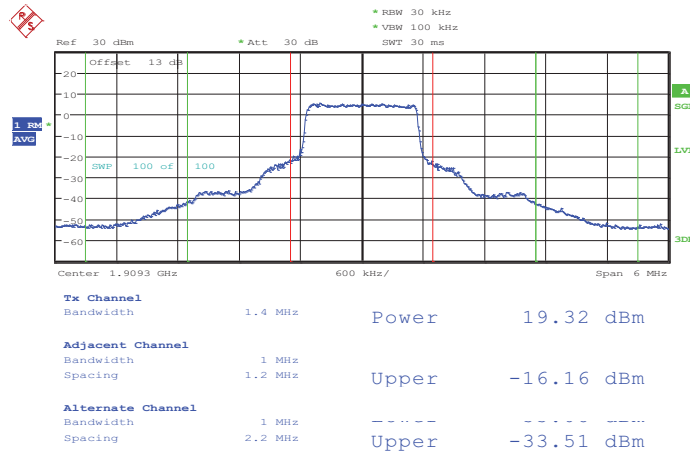


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



Date: 15.JUN.2013 06:18:46

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0

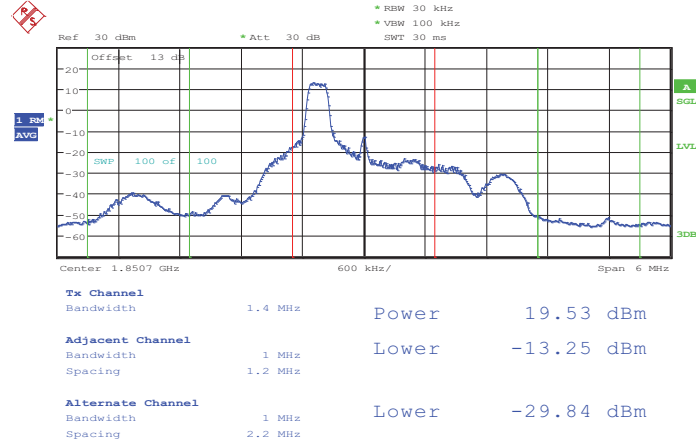


Date: 15.JUN.2013 06:19:05



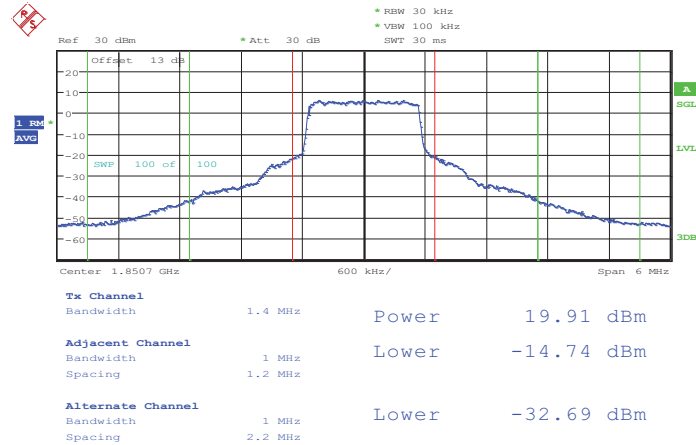
Band :	LTE Band 2	Band Width :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.JUN.2013 06:16:00

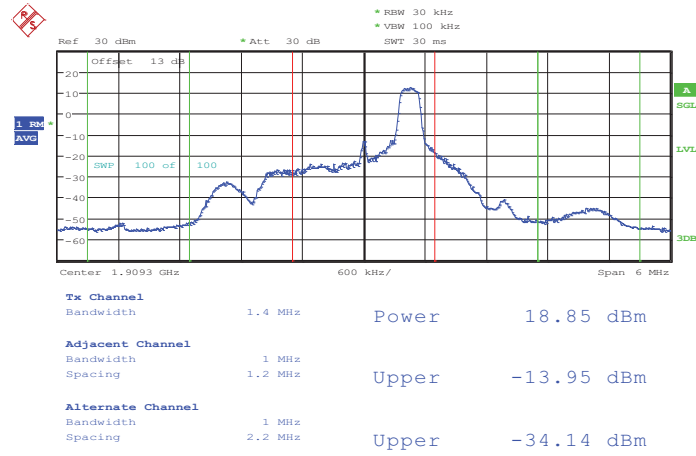
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 15.JUN.2013 06:16:25

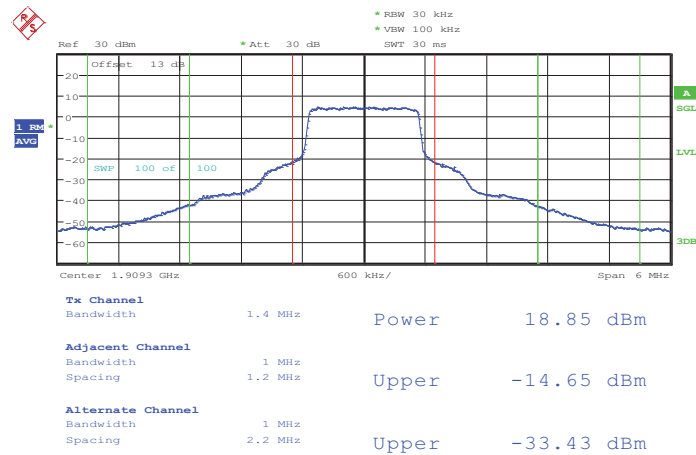


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



Date: 15.JUN.2013 06:18:34

Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0

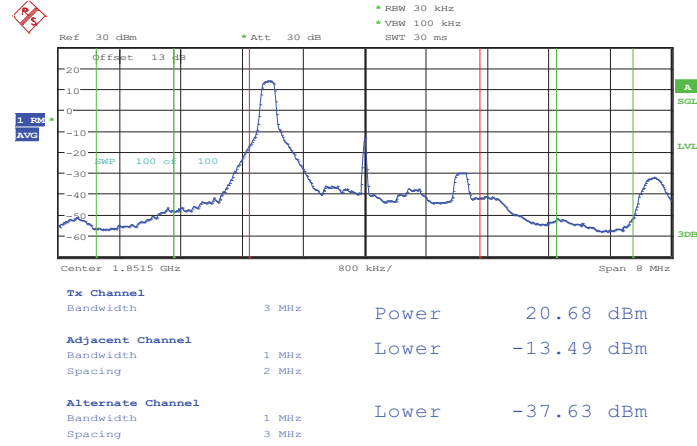


Date: 15.JUN.2013 06:18:00



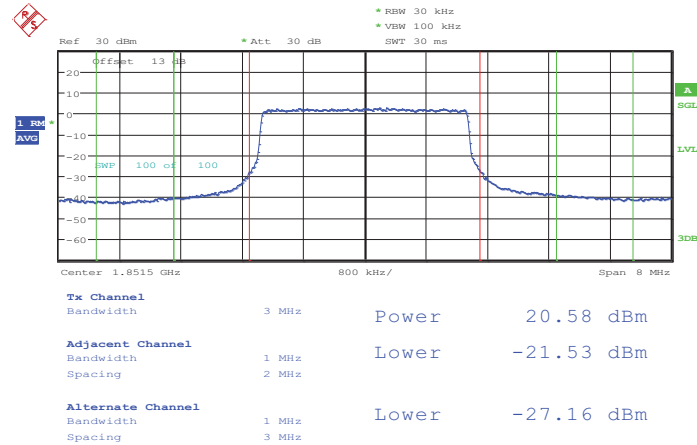
Band :	LTE Band 2	Band Width :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.JUN.2013 06:10:49

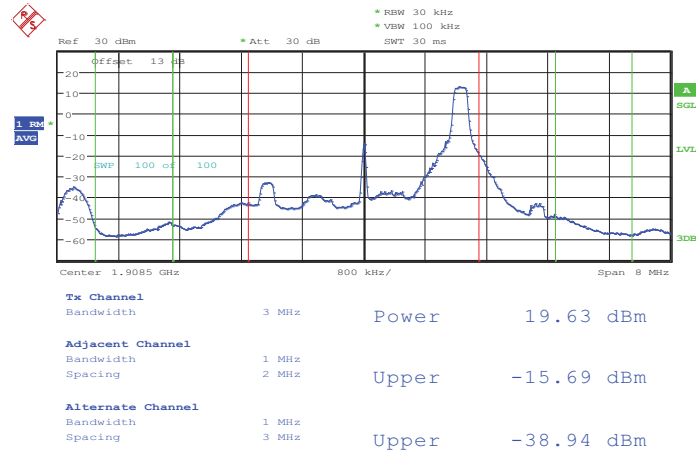
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 15.JUN.2013 06:11:16

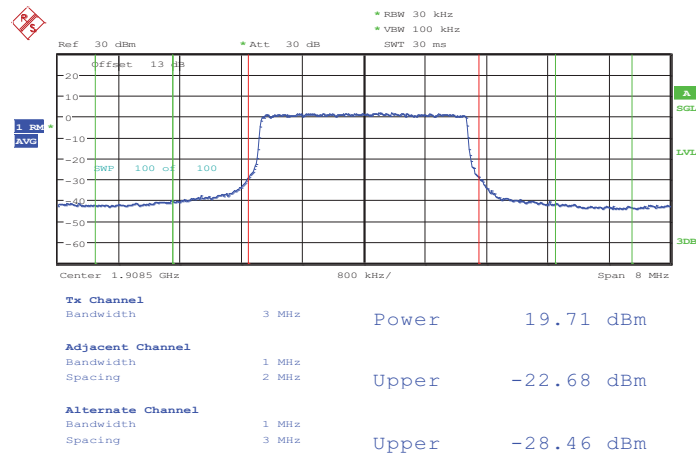


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 15.JUN.2013 06:08:36

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0

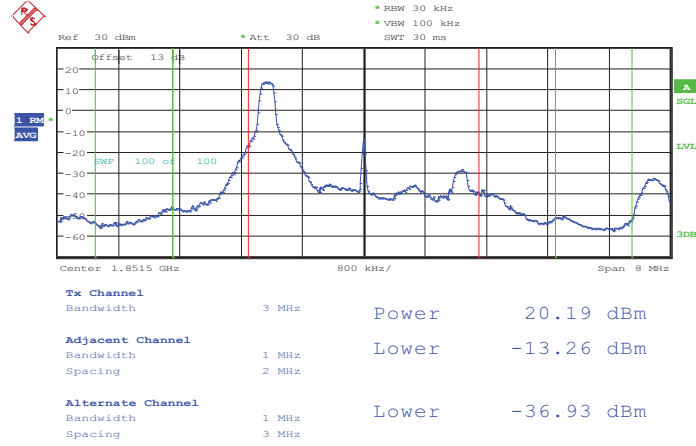


Date: 15.JUN.2013 06:08:19



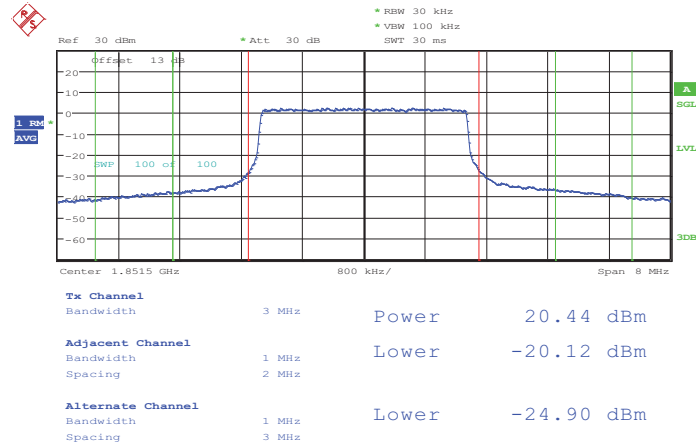
Band :	LTE Band 2	Band Width :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.JUN.2013 06:10:30

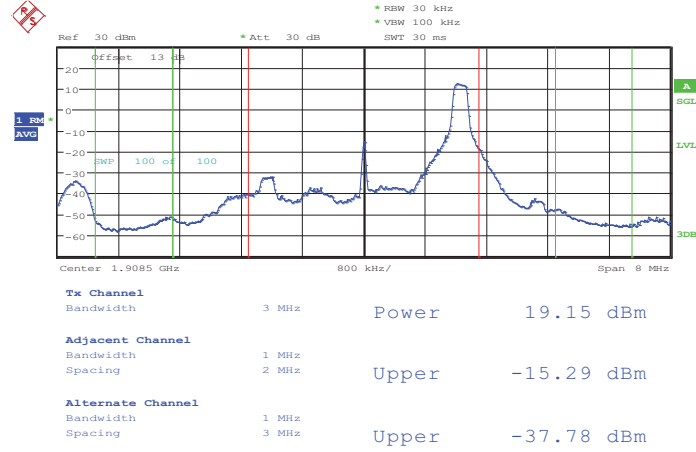
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 15.JUN.2013 06:09:35

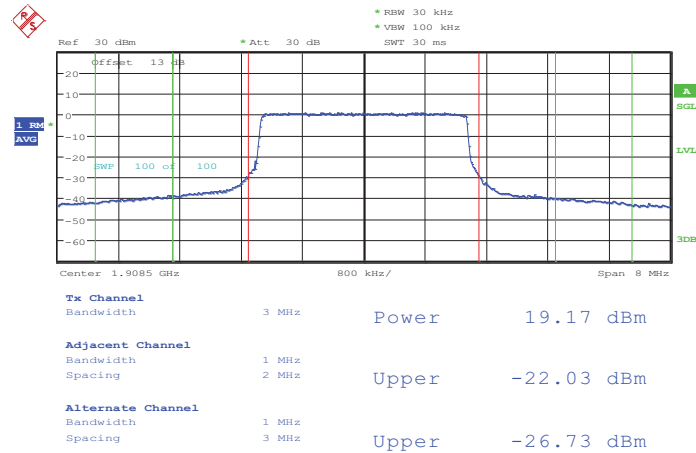


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 15.JUN.2013 06:08:50

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0

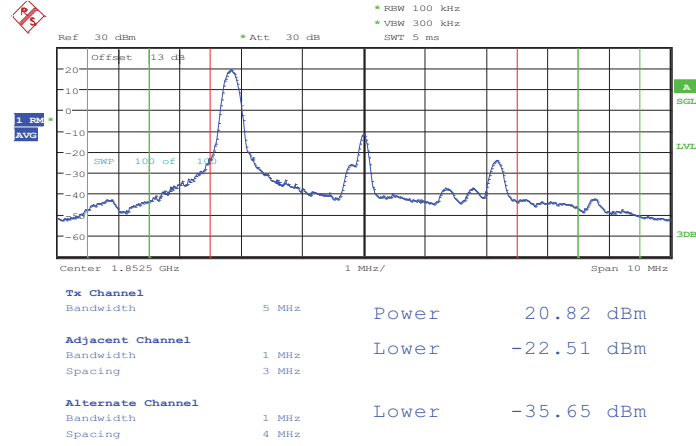


Date: 15.JUN.2013 06:09:07



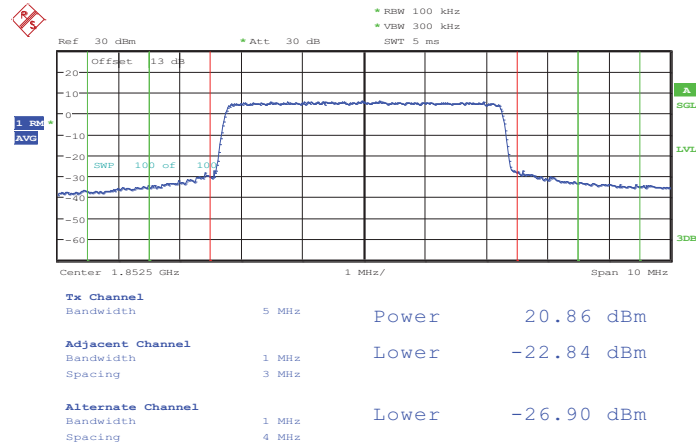
Band :	LTE Band 2	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.JUN.2013 06:04:16

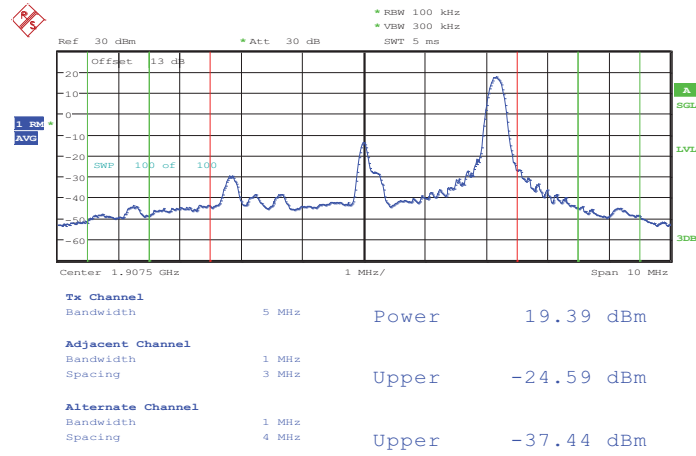
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 15.JUN.2013 06:04:00

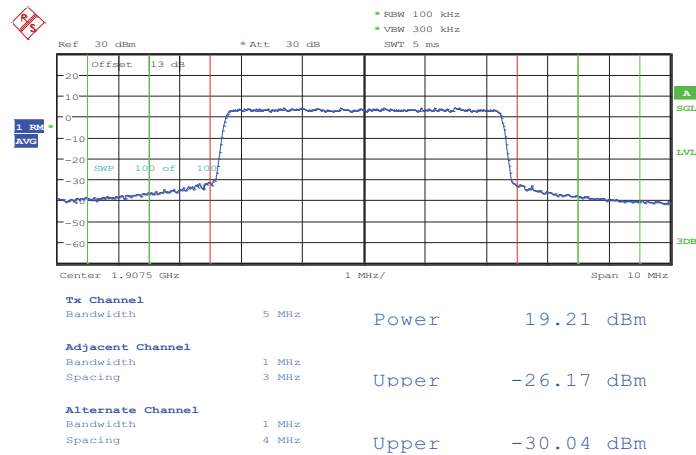


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 15.JUN.2013 06:05:57

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

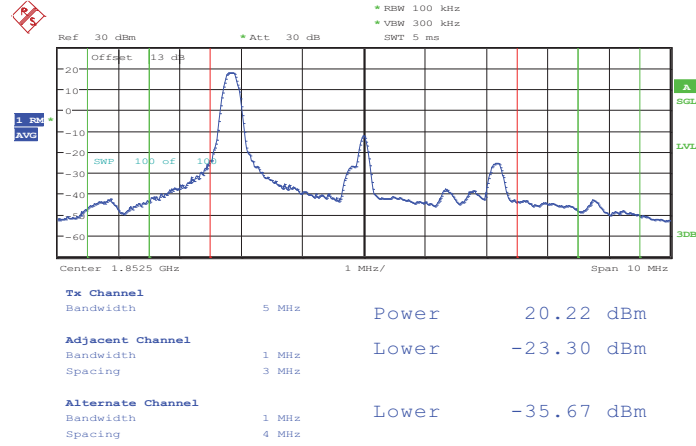


Date: 15.JUN.2013 06:06:08



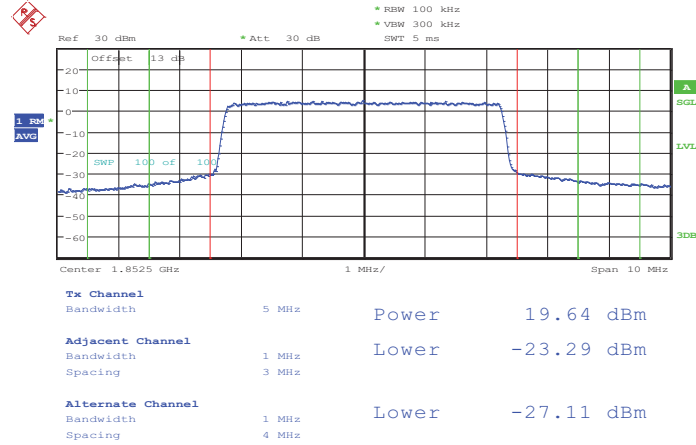
Band :	LTE Band 2	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 15.JUN.2013 06:04:25

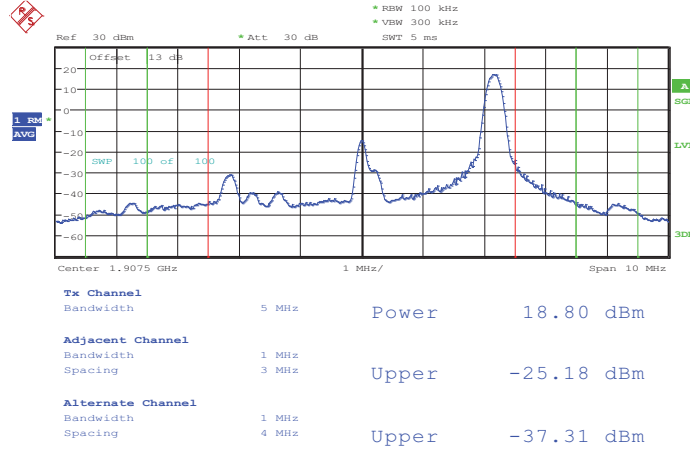
Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



Date: 15.JUN.2013 06:04:41

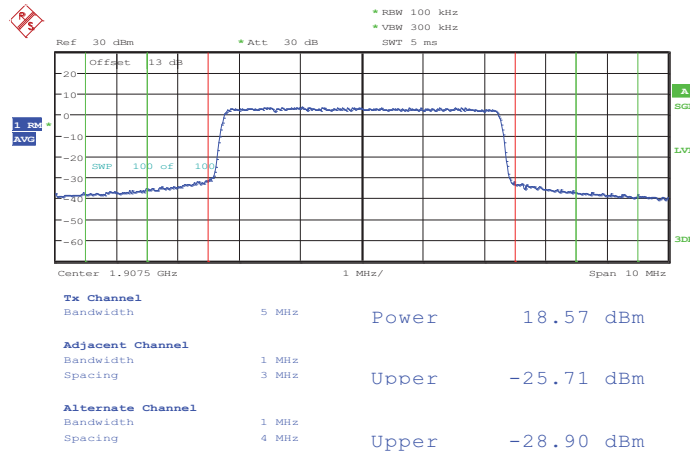


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 15.JUN.2013 06:05:48

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

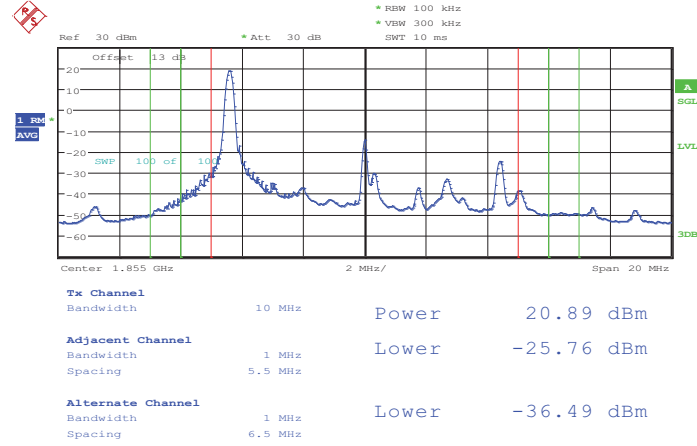


Date: 15.JUN.2013 06:05:33



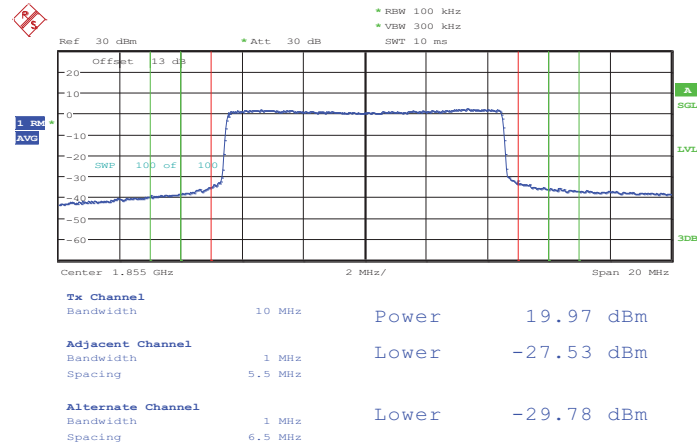
Band :	LTE Band 2	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.JUN.2013 05:25:56

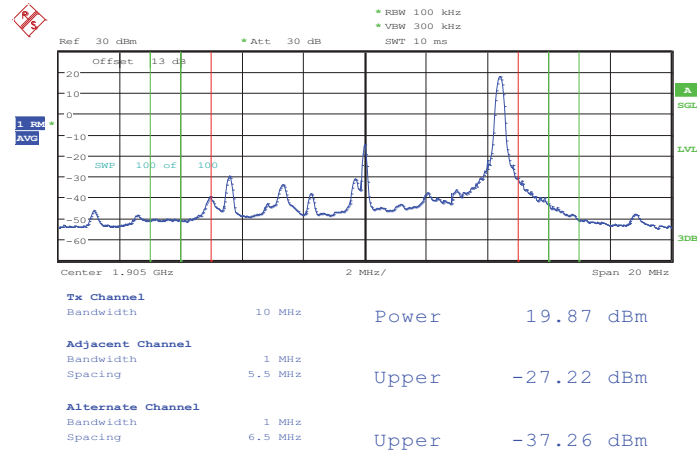
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 15.JUN.2013 05:26:09

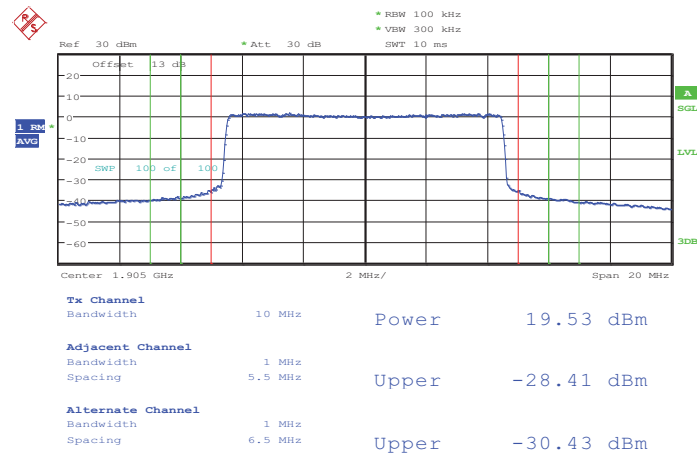


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 15.JUN.2013 05:24:16

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

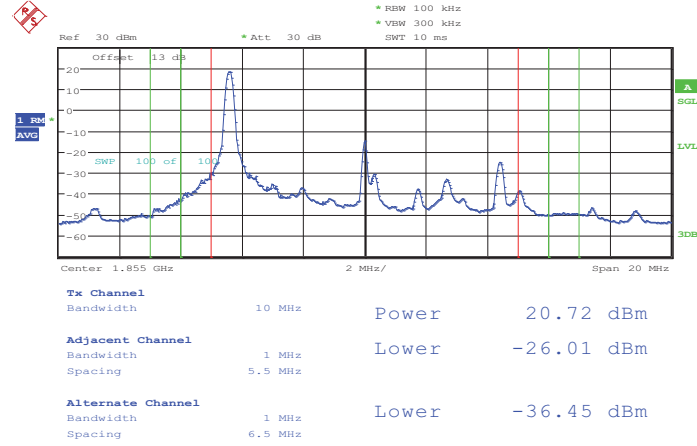


Date: 15.JUN.2013 05:24:01



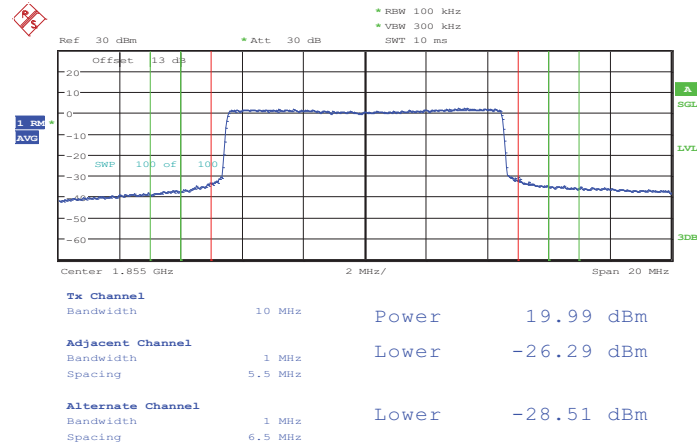
Band :	LTE Band 2	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 15.JUN.2013 05:25:45

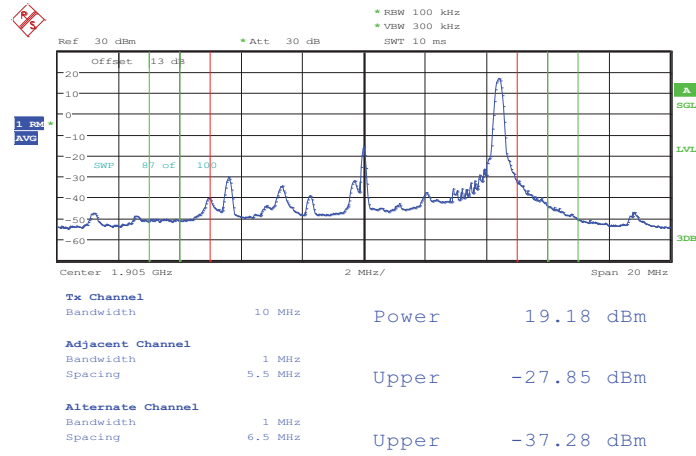
Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 15.JUN.2013 05:25:33

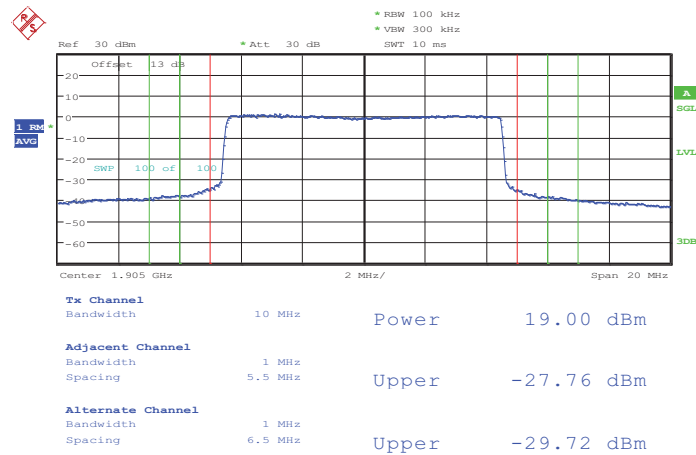


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Date: 15.JUN.2013 05:24:32

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

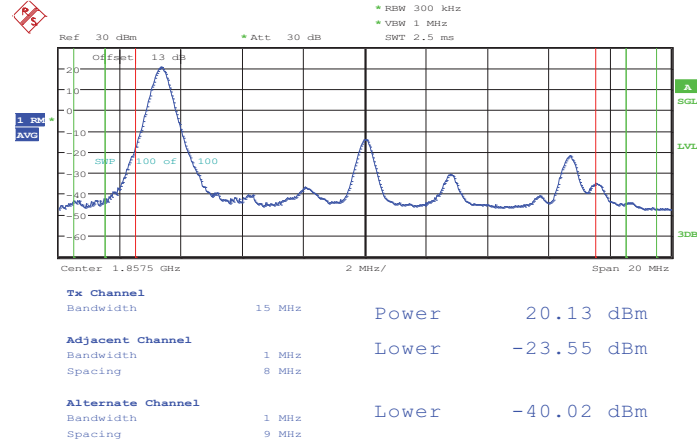


Date: 15.JUN.2013 05:25:07



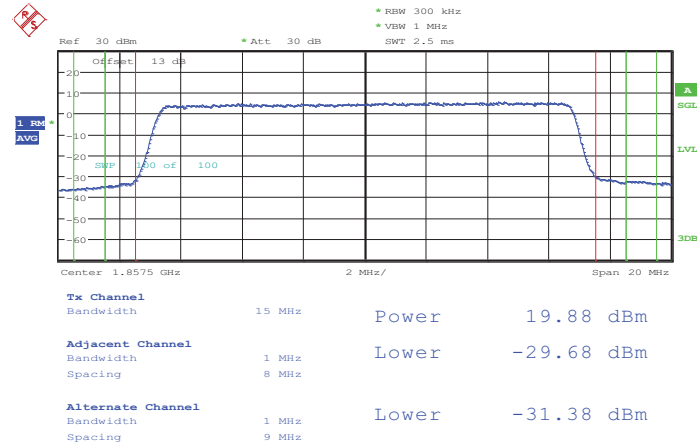
Band :	LTE Band 2	Band Width :	15MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.JUN.2013 05:17:23

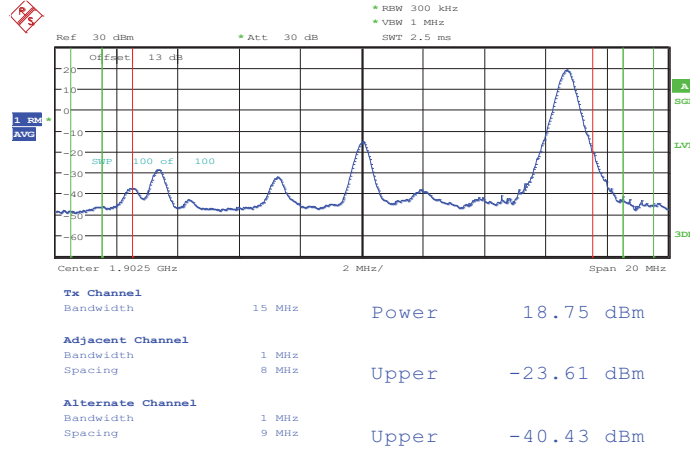
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 15.JUN.2013 05:17:03

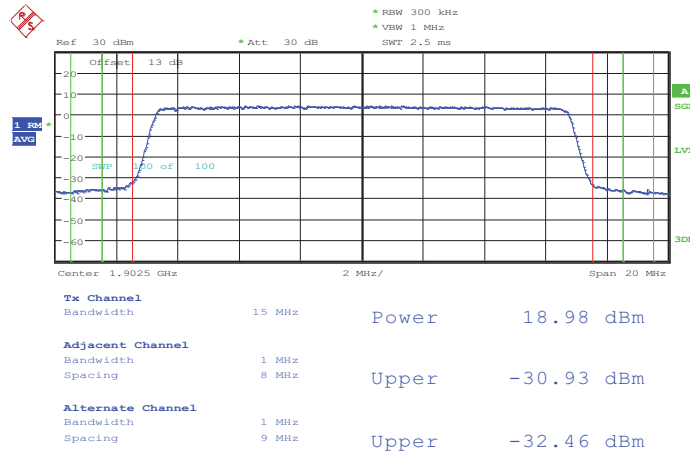


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



Date: 15.JUN.2013 05:19:09

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

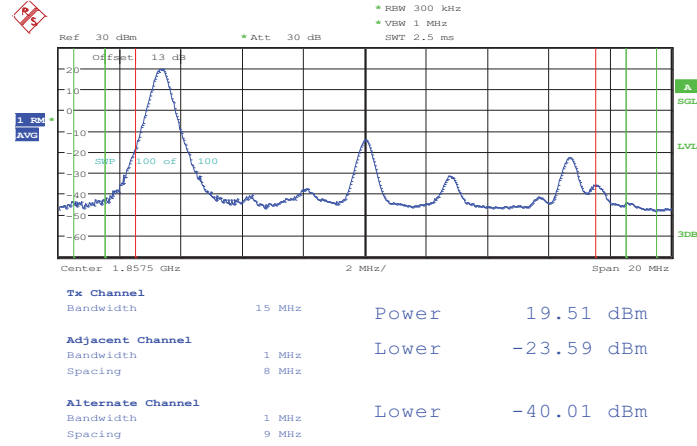


Date: 15.JUN.2013 05:19:25



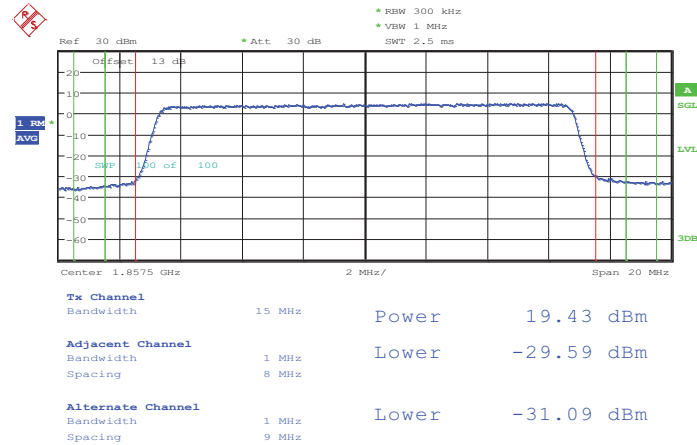
Band :	LTE Band 2	Band Width :	15MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 15.JUN.2013 05:17:39

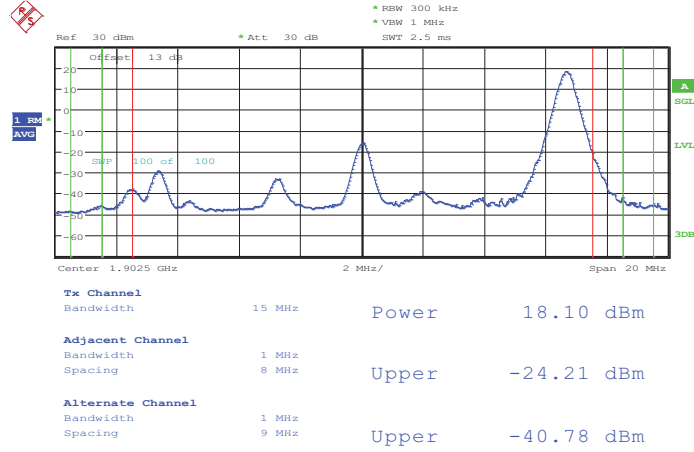
Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



Date: 15.JUN.2013 05:17:53

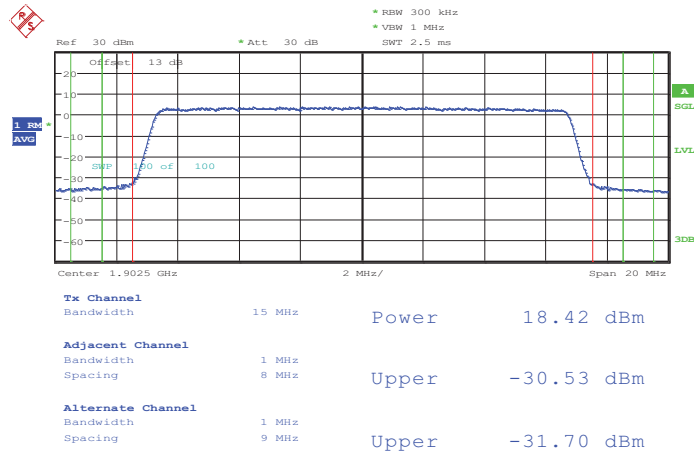


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74



Date: 15.JUN.2013 05:18:49

Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

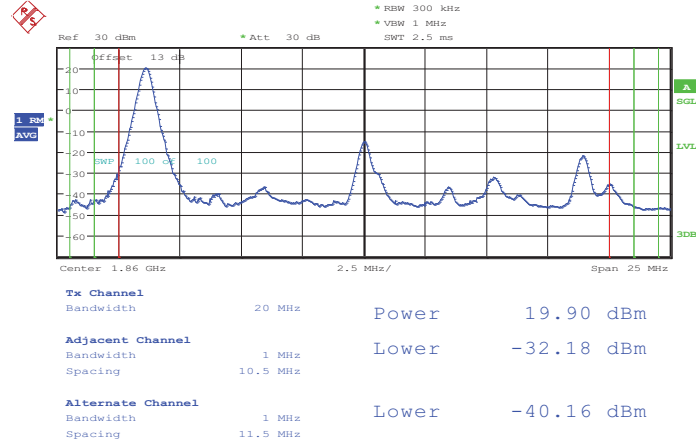


Date: 15.JUN.2013 05:18:36



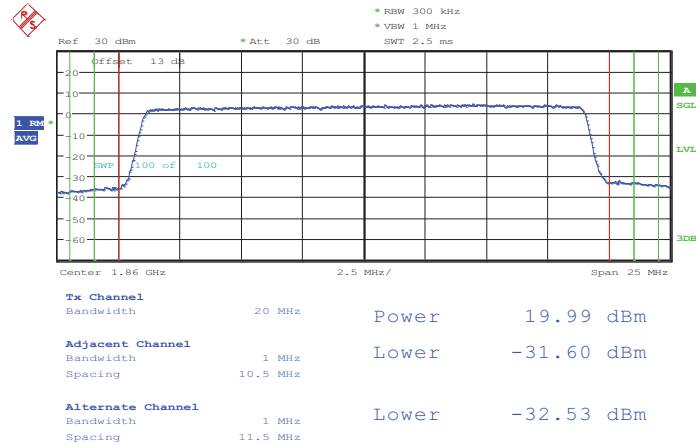
Band :	LTE Band 2	Band Width :	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.JUN.2013 05:11:42

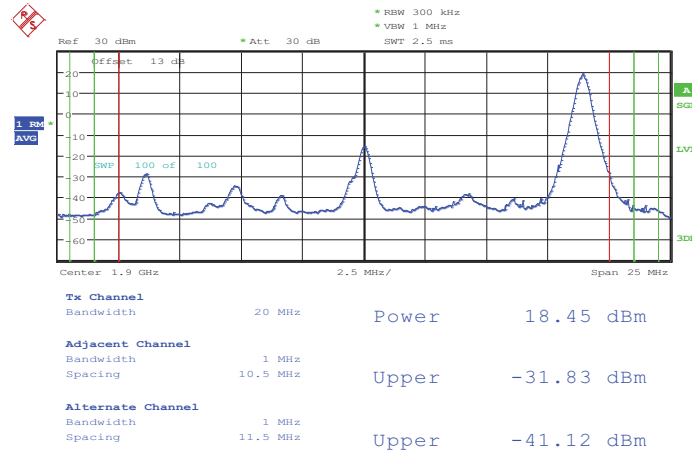
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 15.JUN.2013 05:11:27

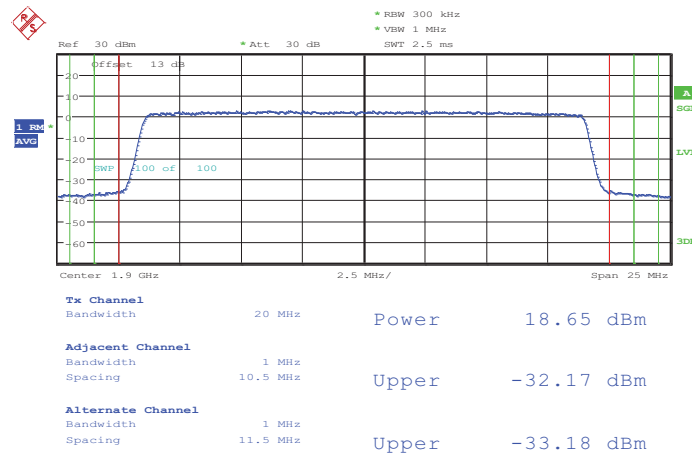


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



Date: 15.JUN.2013 05:10:08

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0

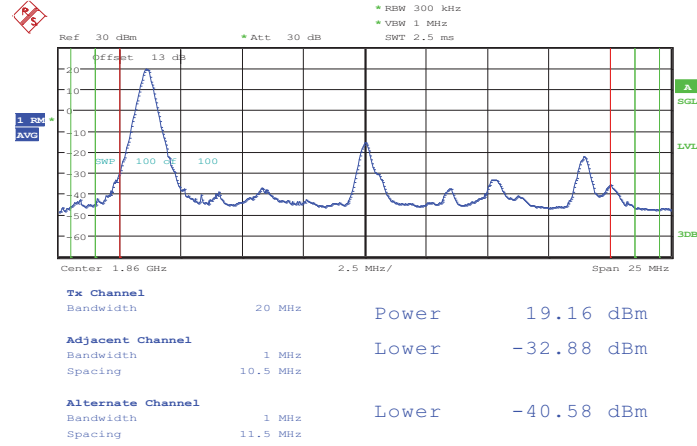


Date: 15.JUN.2013 05:10:19



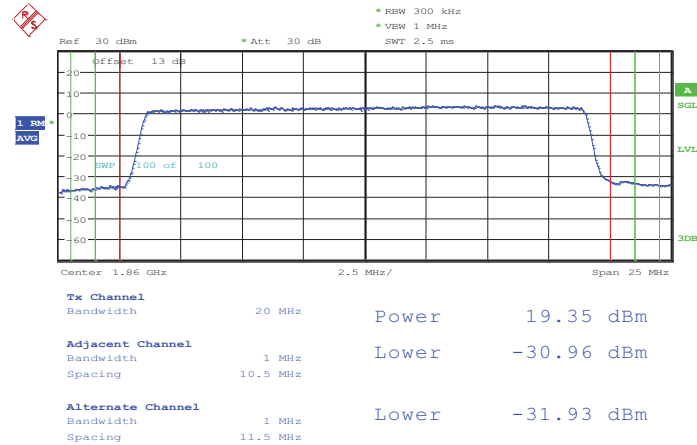
Band :	LTE Band 2	Band Width :	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 15.JUN.2013 05:11:57

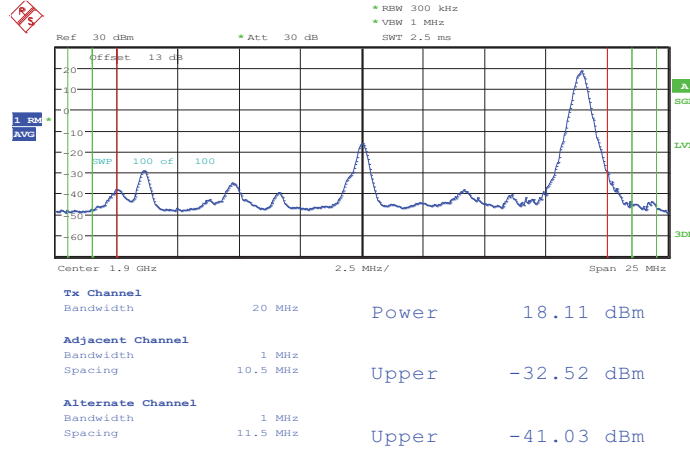
Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0



Date: 15.JUN.2013 05:12:14

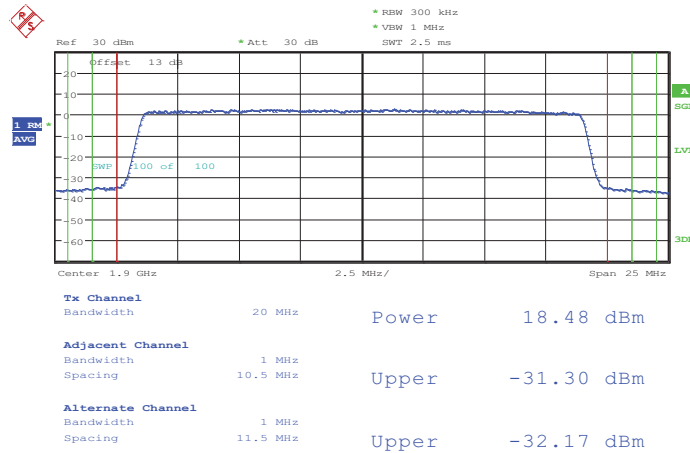


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99



Date: 15.JUN.2013 05:10:49

Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

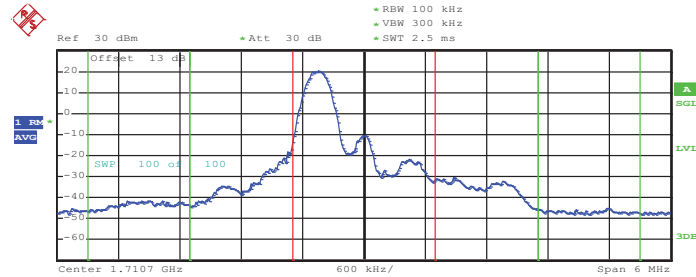


Date: 15.JUN.2013 05:10:30



Band :	LTE Band 4	Band Width :	1.4MHz / QPSK
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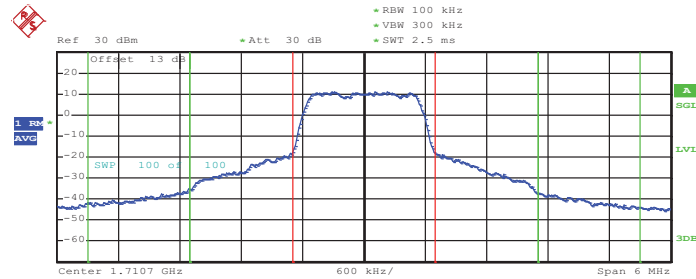
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Tx Channel	Bandwidth	1.4 MHz	Power	22.01 dBm
Adjacent Channel	Bandwidth	1 MHz	Lower	-17.82 dBm
	Spacing	1.2 MHz		
Alternate Channel	Bandwidth	1 MHz	Lower	-33.62 dBm
	Spacing	2.2 MHz		

Date: 25.JUN.2013 11:19:41

Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0

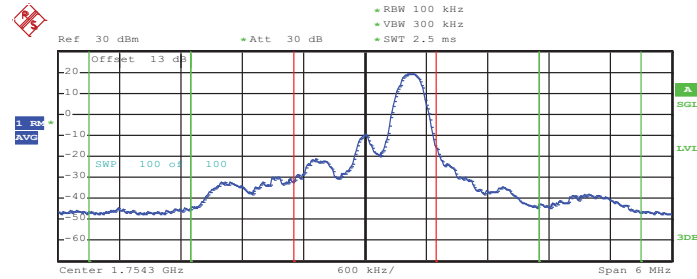


Tx Channel	Bandwidth	1.4 MHz	Power	19.99 dBm
Adjacent Channel	Bandwidth	1 MHz	Lower	-14.51 dBm
	Spacing	1.2 MHz		
Alternate Channel	Bandwidth	1 MHz	Lower	-29.83 dBm
	Spacing	2.2 MHz		

Date: 25.JUN.2013 11:20:43



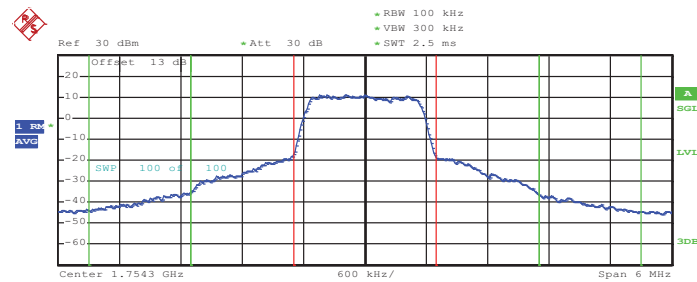
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



Tx Channel	Bandwidth	1.4 MHz	Power	21.57 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-18.28 dBm
	Spacing	1.2 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-31.38 dBm
	Spacing	2.2 MHz		

Date: 25.JUN.2013 11:18:54

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



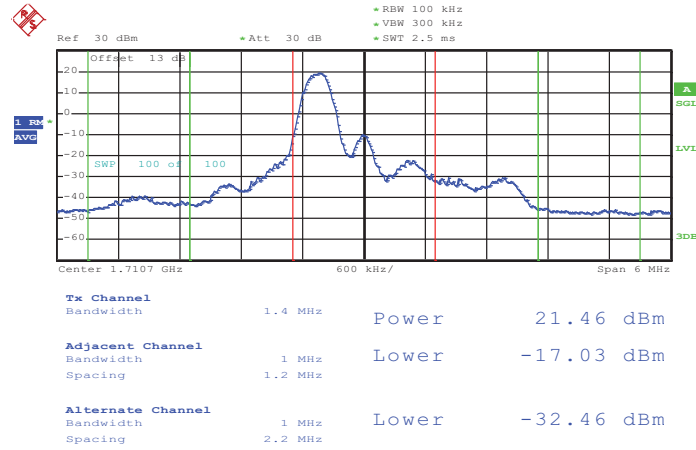
Tx Channel	Bandwidth	1.4 MHz	Power	19.92 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-14.19 dBm
	Spacing	1.2 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-30.65 dBm
	Spacing	2.2 MHz		

Date: 25.JUN.2013 11:11:04



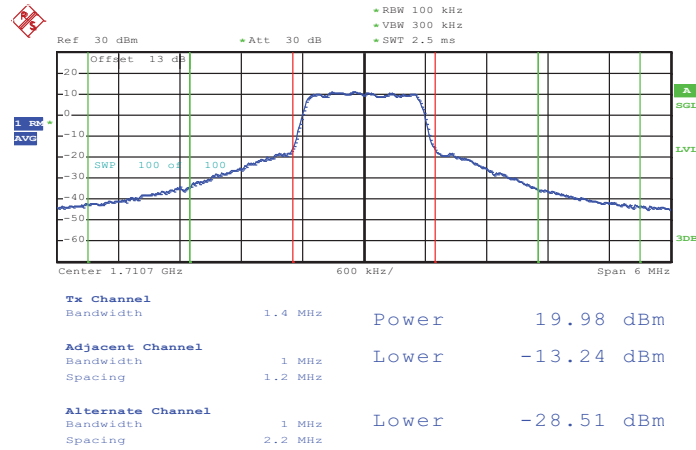
Band :	LTE Band 4	Band Width :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 25.JUN.2013 11:19:58

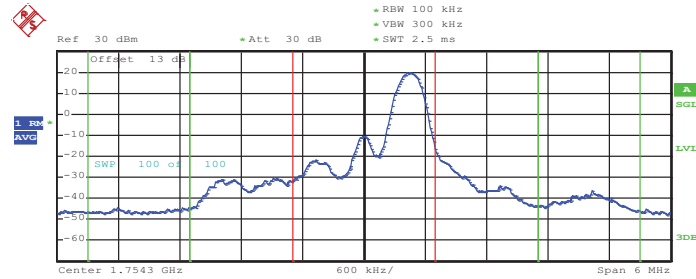
Lower Band Edge Plot for 16QAM-RB Size 6, RB Offset 0



Date: 25.JUN.2013 11:20:26



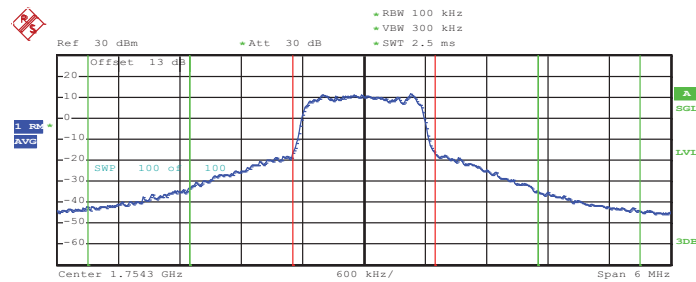
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 5



Tx Channel	Bandwidth	1.4 MHz	Power	21.60 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-18.38 dBm
	Spacing	1.2 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-31.24 dBm
	Spacing	2.2 MHz		

Date: 25.JUN.2013 11:19:07

Higher Band Edge Plot for 16QAM-RB Size 6, RB Offset 0



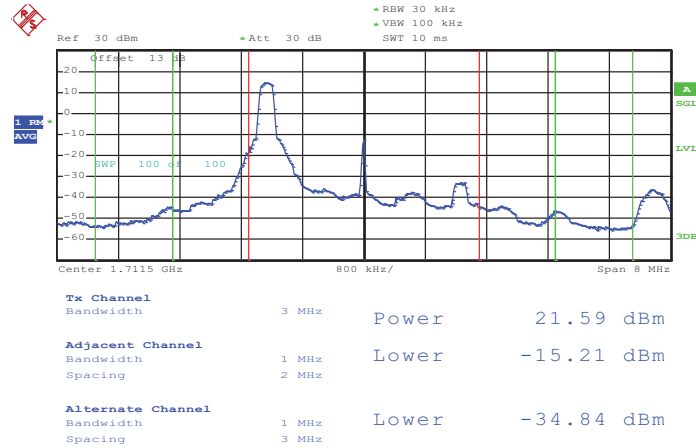
Tx Channel	Bandwidth	1.4 MHz	Power	19.77 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-13.12 dBm
	Spacing	1.2 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-29.85 dBm
	Spacing	2.2 MHz		

Date: 25.JUN.2013 11:12:08



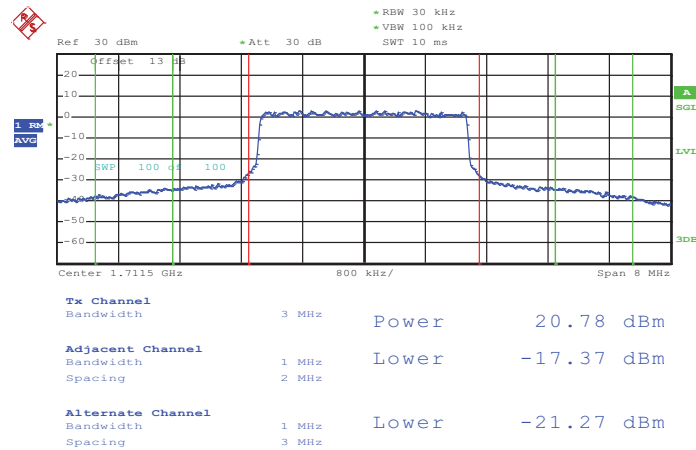
Band :	LTE Band 4	Band Width :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 25.JUN.2013 11:24:20

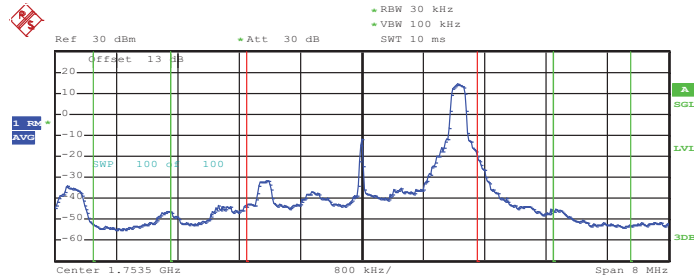
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 25.JUN.2013 11:23:12



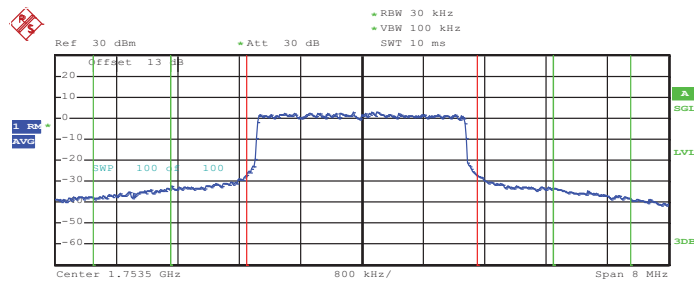
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Tx Channel	Bandwidth	3 MHz	Power	21.14 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-16.56 dBm
	Spacing	2 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-35.44 dBm
	Spacing	3 MHz		

Date: 25.JUN.2013 11:24:52

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



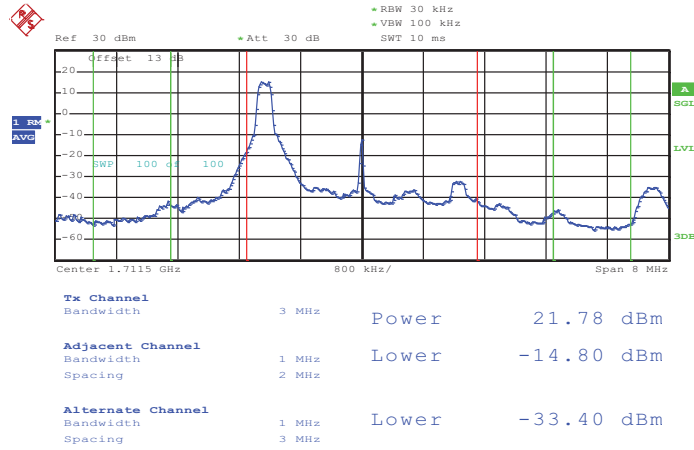
Tx Channel	Bandwidth	3 MHz	Power	20.49 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-16.83 dBm
	Spacing	2 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-21.07 dBm
	Spacing	3 MHz		

Date: 25.JUN.2013 11:26:04



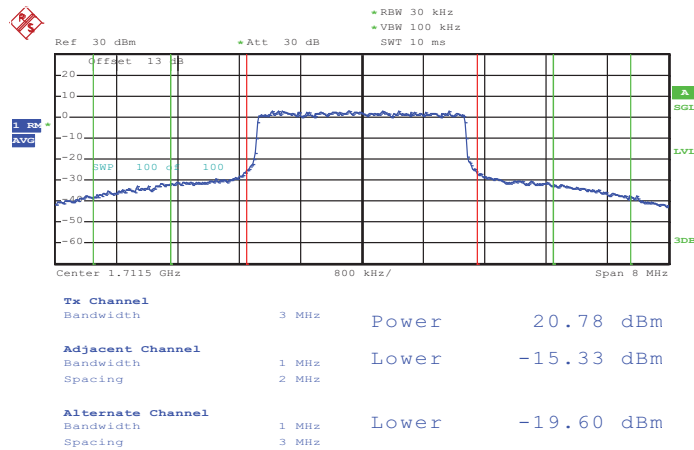
Band :	LTE Band 4	Band Width :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 25.JUN.2013 11:24:04

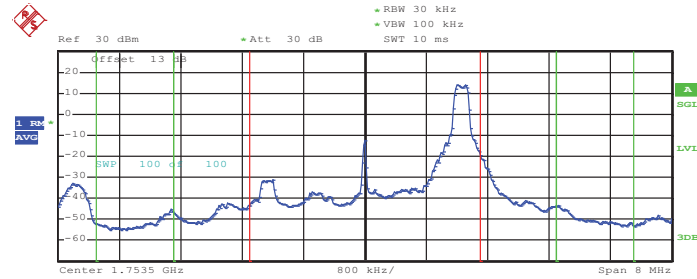
Lower Band Edge Plot for 16QAM-RB Size 15, RB Offset 0



Date: 25.JUN.2013 11:23:41



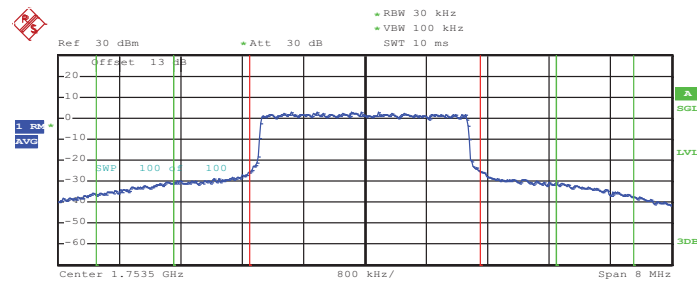
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 14



Tx Channel	Bandwidth	3 MHz	Power	20.98 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-15.55 dBm
	Spacing	2 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-34.28 dBm
	Spacing	3 MHz		

Date: 25.JUN.2013 11:25:06

Higher Band Edge Plot for 16QAM-RB Size 15, RB Offset 0



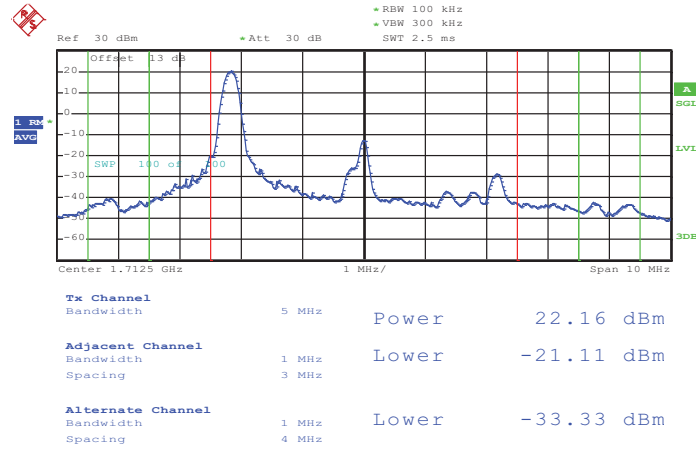
Tx Channel	Bandwidth	3 MHz	Power	20.59 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-14.48 dBm
	Spacing	2 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-18.83 dBm
	Spacing	3 MHz		

Date: 25.JUN.2013 11:25:50



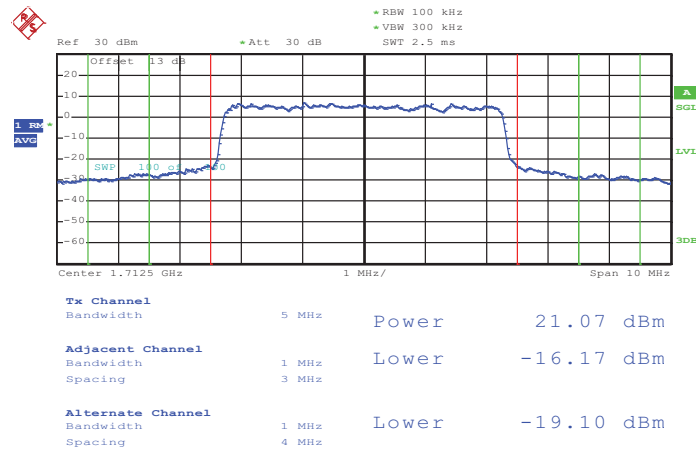
Band :	LTE Band 4	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 25.JUN.2013 13:53:03

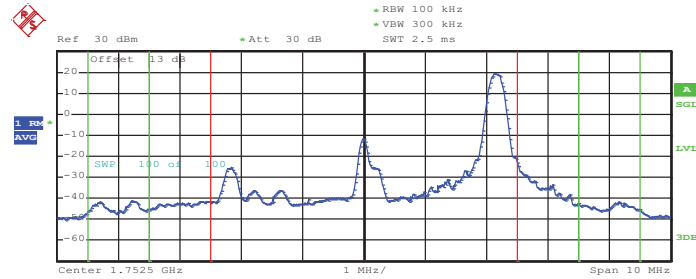
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 25.JUN.2013 13:51:54



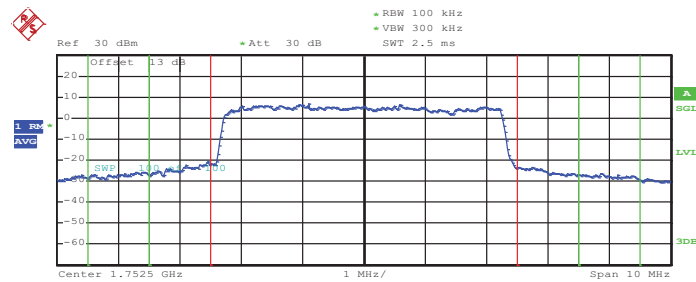
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Tx Channel	Bandwidth	5 MHz	Power	21.66 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-22.56 dBm
	Spacing	3 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-34.09 dBm
	Spacing	4 MHz		

Date: 25.JUN.2013 13:53:44

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



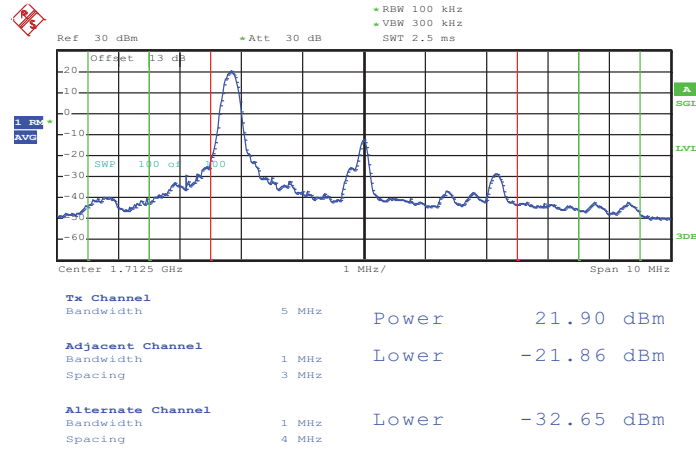
Tx Channel	Bandwidth	5 MHz	Power	20.88 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-15.58 dBm
	Spacing	3 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-17.96 dBm
	Spacing	4 MHz		

Date: 25.JUN.2013 13:54:51



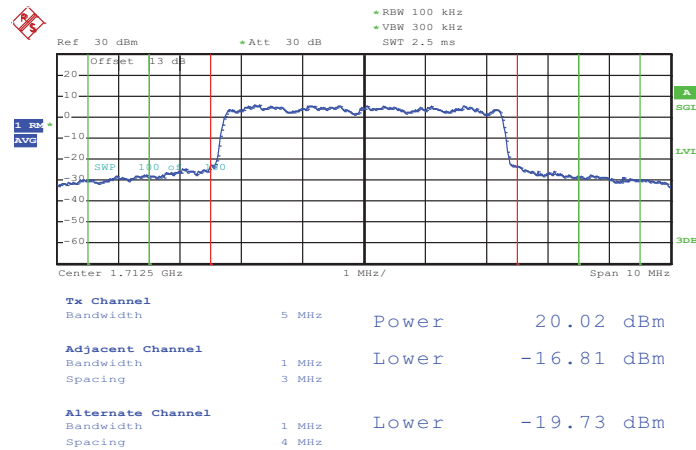
Band :	LTE Band 4	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 25.JUN.2013 13:52:39

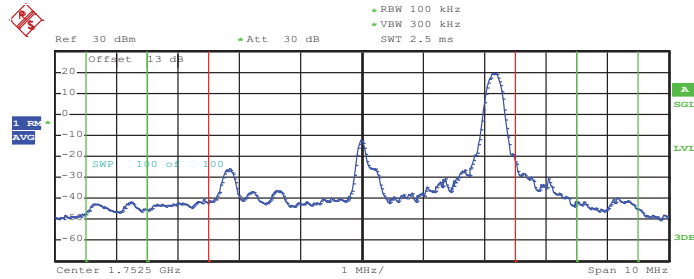
Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



Date: 25.JUN.2013 13:52:13



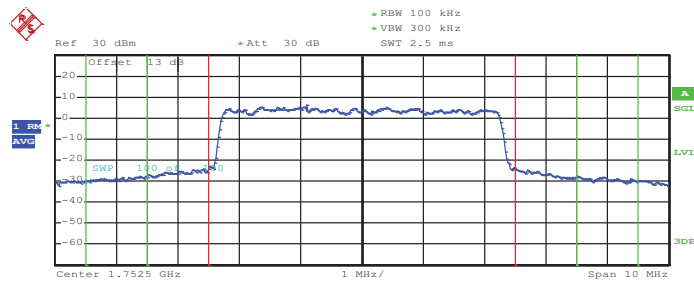
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Tx Channel	Bandwidth	5 MHz	Power	21.54 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-21.73 dBm
	Spacing	3 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-33.09 dBm
	Spacing	4 MHz		

Date: 25.JUN.2013 13:54:01

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



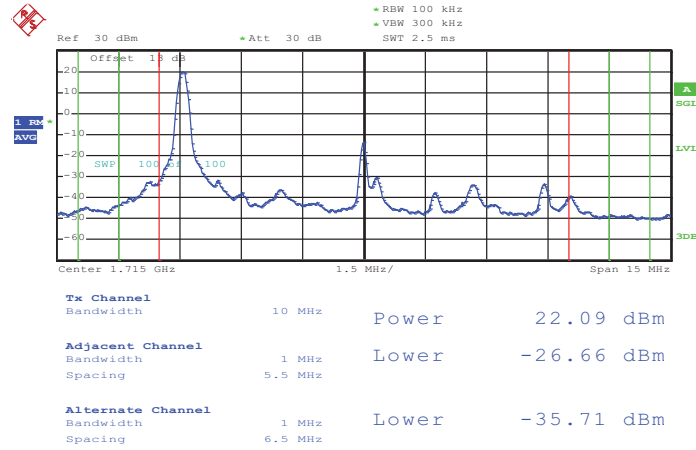
Tx Channel	Bandwidth	5 MHz	Power	19.91 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-16.89 dBm
	Spacing	3 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-19.43 dBm
	Spacing	4 MHz		

Date: 25.JUN.2013 13:54:30



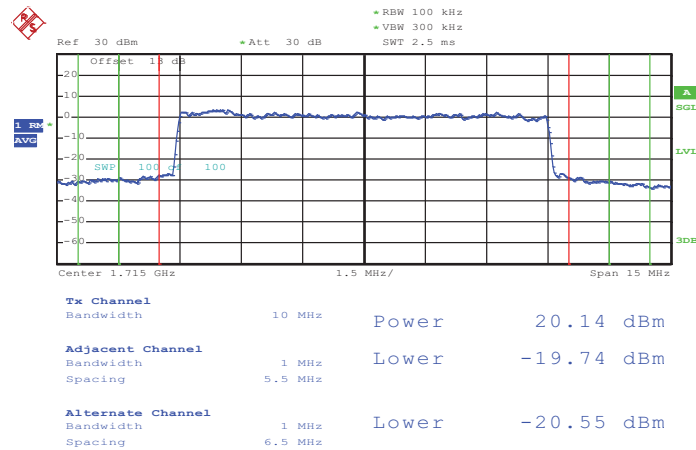
Band :	LTE Band 4	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 25.JUN.2013 13:58:38

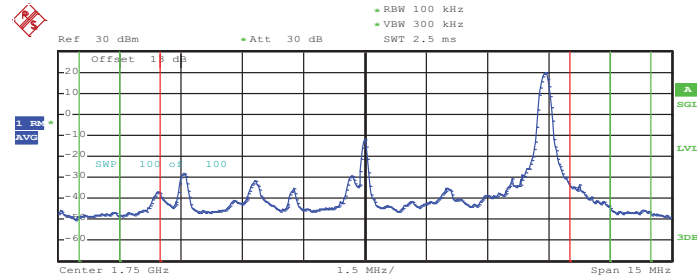
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 25.JUN.2013 13:59:30



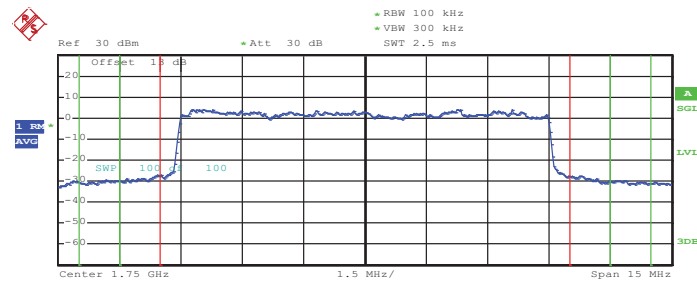
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Tx Channel	Bandwidth	10 MHz	Power	21.78 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-28.04 dBm
	Spacing	5.5 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-36.77 dBm
	Spacing	6.5 MHz		

Date: 25.JUN.2013 13:58:08

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



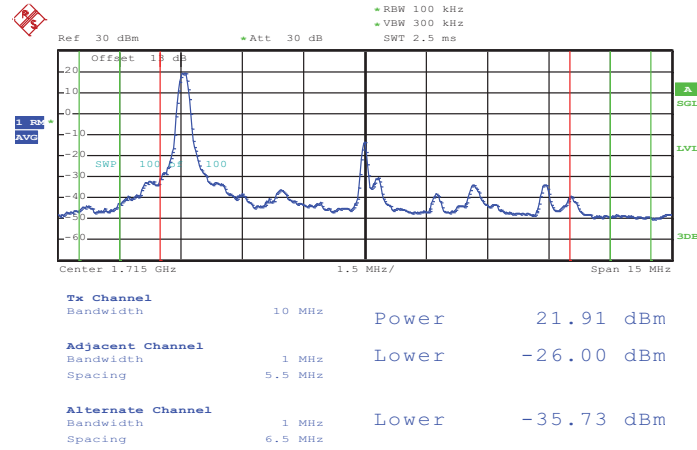
Tx Channel	Bandwidth	10 MHz	Power	21.26 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-19.30 dBm
	Spacing	5.5 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-20.88 dBm
	Spacing	6.5 MHz		

Date: 25.JUN.2013 13:57:12



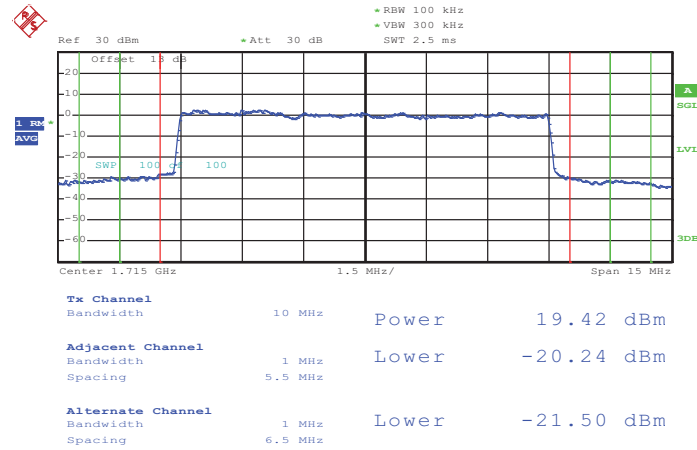
Band :	LTE Band 4	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 25.JUN.2013 13:58:56

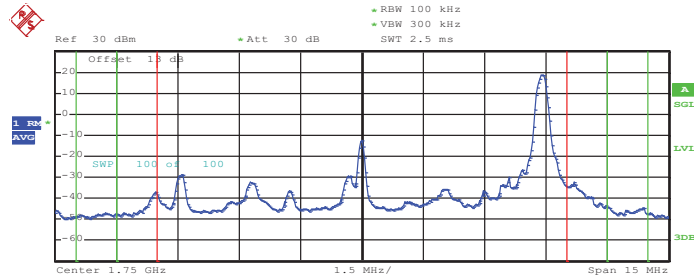
Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 25.JUN.2013 13:59:14



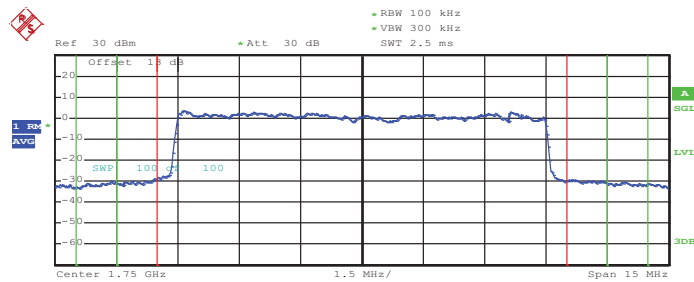
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Tx Channel	Bandwidth	10 MHz	Power	21.04 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-27.43 dBm
	Spacing	5.5 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-36.36 dBm
	Spacing	6.5 MHz		

Date: 25.JUN.2013 13:57:54

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



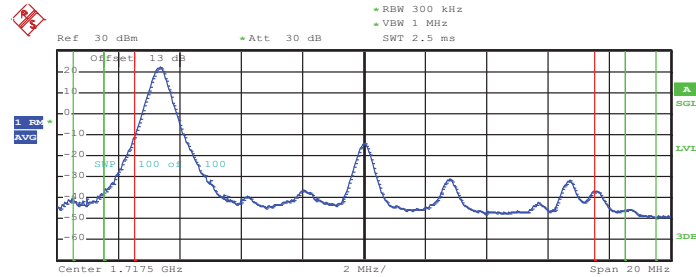
Tx Channel	Bandwidth	10 MHz	Power	20.25 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-20.45 dBm
	Spacing	5.5 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-21.68 dBm
	Spacing	6.5 MHz		

Date: 25.JUN.2013 13:57:29



Band :	LTE Band 4	Band Width :	15MHz / QPSK
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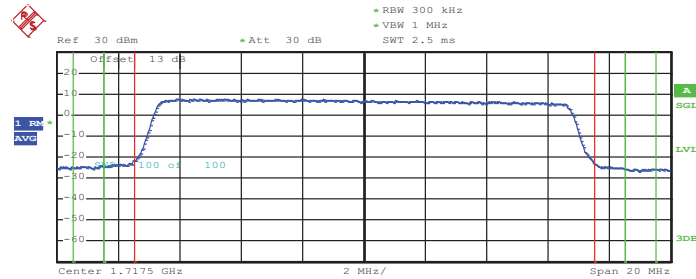
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Tx Channel	Bandwidth	15 MHz	Power	22.14 dBm
Adjacent Channel	Bandwidth	1 MHz	Lower	-16.58 dBm
	Spacing	8 MHz		
Alternate Channel	Bandwidth	1 MHz	Lower	-36.86 dBm
	Spacing	9 MHz		

Date: 25.JUN.2013 14:02:24

Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0

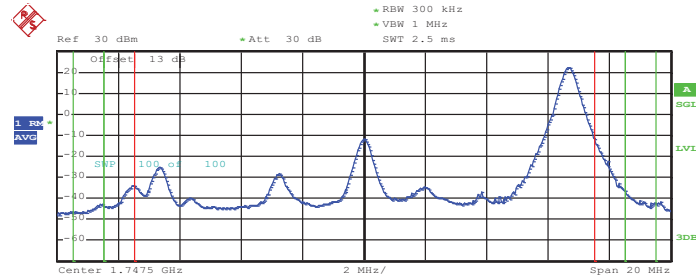


Tx Channel	Bandwidth	15 MHz	Power	22.31 dBm
Adjacent Channel	Bandwidth	1 MHz	Lower	-19.31 dBm
	Spacing	8 MHz		
Alternate Channel	Bandwidth	1 MHz	Lower	-20.41 dBm
	Spacing	9 MHz		

Date: 25.JUN.2013 14:01:37



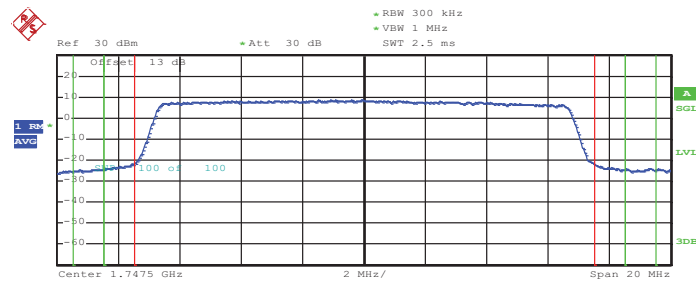
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



Tx Channel	Bandwidth	15 MHz	Power	22.36 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-15.16 dBm
	Spacing	8 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-36.27 dBm
	Spacing	9 MHz		

Date: 25.JUN.2013 14:03:44

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0



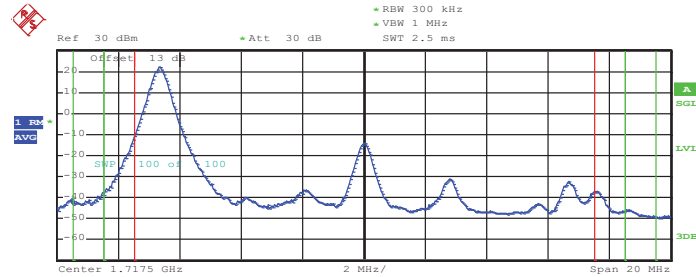
Tx Channel	Bandwidth	15 MHz	Power	23.24 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-19.24 dBm
	Spacing	8 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-20.27 dBm
	Spacing	9 MHz		

Date: 25.JUN.2013 14:05:04



Band :	LTE Band 4	Band Width :	15MHz / 16QAM
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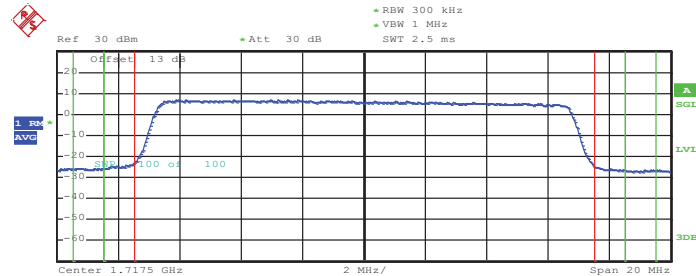
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Tx Channel	Bandwidth	15 MHz	Power	21.87 dBm
Adjacent Channel	Bandwidth	1 MHz	Lower	-16.78 dBm
	Spacing	8 MHz		
Alternate Channel	Bandwidth	1 MHz	Lower	-36.92 dBm
	Spacing	9 MHz		

Date: 25.JUN.2013 14:02:09

Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

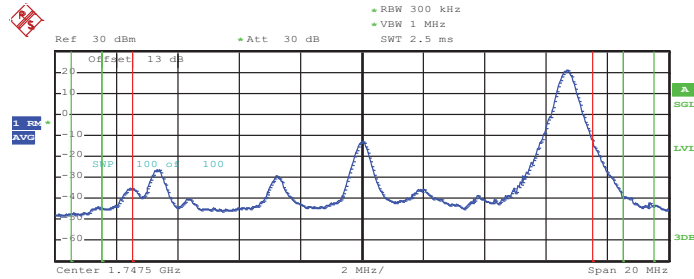


Tx Channel	Bandwidth	15 MHz	Power	21.52 dBm
Adjacent Channel	Bandwidth	1 MHz	Lower	-20.33 dBm
	Spacing	8 MHz		
Alternate Channel	Bandwidth	1 MHz	Lower	-21.54 dBm
	Spacing	9 MHz		

Date: 25.JUN.2013 14:01:53



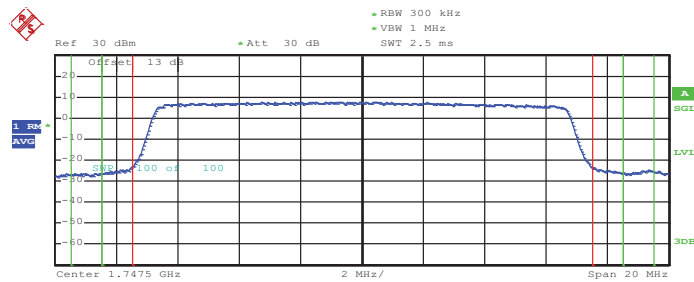
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74



Tx Channel	Bandwidth	15 MHz	Power	21.14 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-16.13 dBm
	Spacing	8 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-37.01 dBm
	Spacing	9 MHz		

Date: 25.JUN.2013 14:04:03

Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



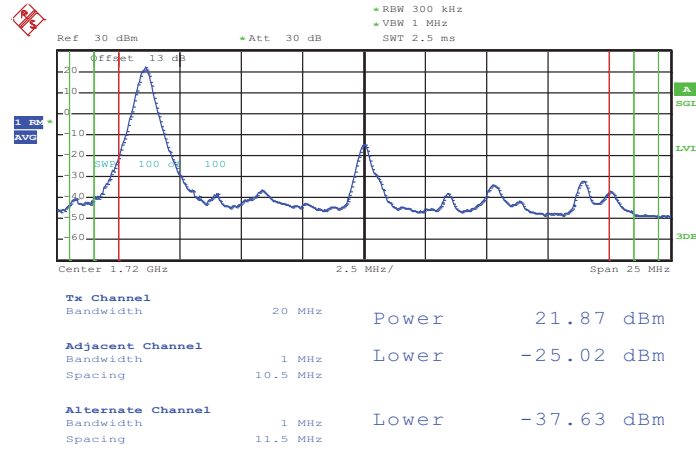
Tx Channel	Bandwidth	15 MHz	Power	22.44 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-20.53 dBm
	Spacing	8 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-21.25 dBm
	Spacing	9 MHz		

Date: 25.JUN.2013 14:04:49



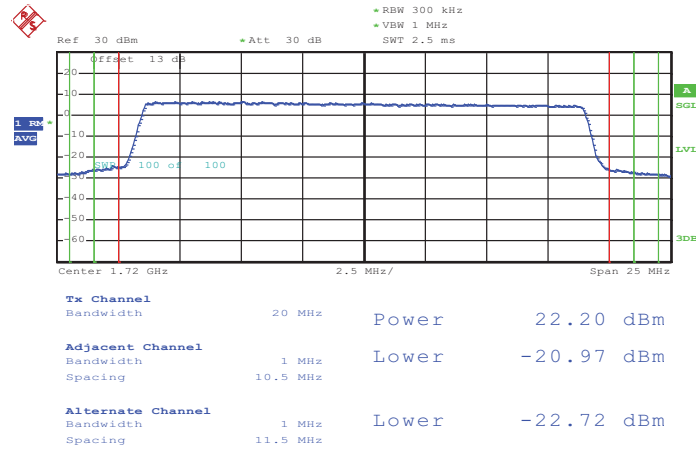
Band :	LTE Band 4	Band Width :	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 25.JUN.2013 14:09:08

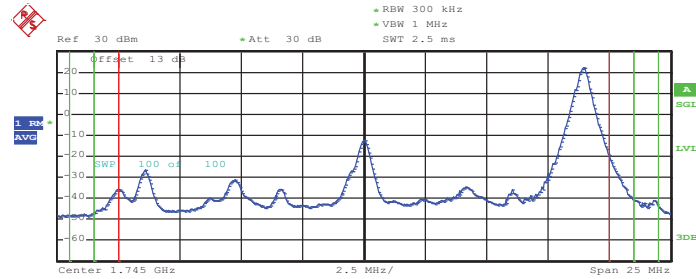
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 25.JUN.2013 14:09:59



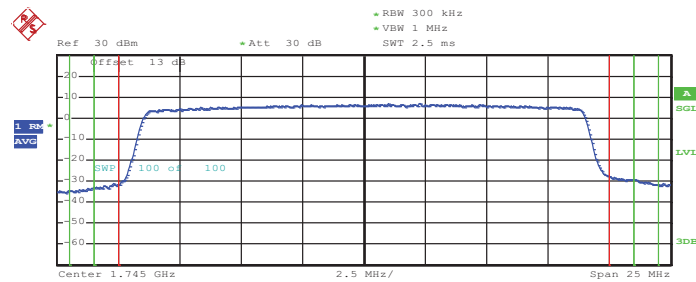
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



Tx Channel	Bandwidth	20 MHz	Power	21.90 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-23.06 dBm
	Spacing	10.5 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-37.58 dBm
	Spacing	11.5 MHz		

Date: 25.JUN.2013 14:08:40

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0



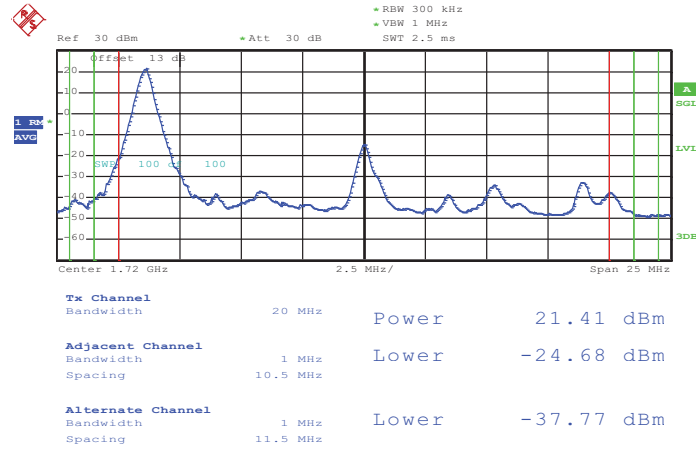
Tx Channel	Bandwidth	20 MHz	Power	22.43 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-24.44 dBm
	Spacing	10.5 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-26.10 dBm
	Spacing	11.5 MHz		

Date: 25.JUN.2013 14:07:41



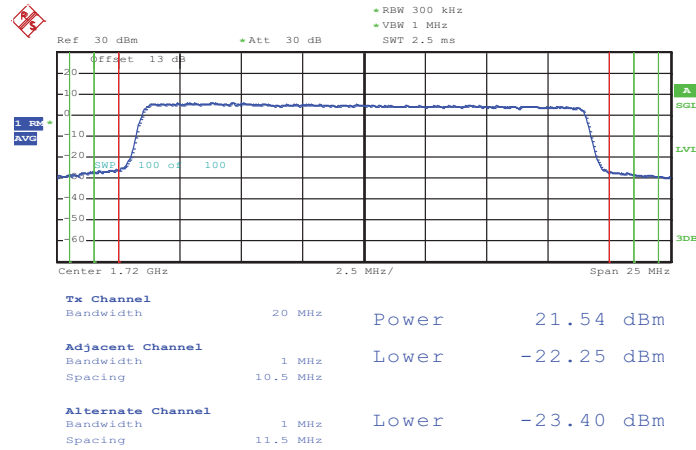
Band :	LTE Band 4	Band Width :	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 25.JUN.2013 14:09:28

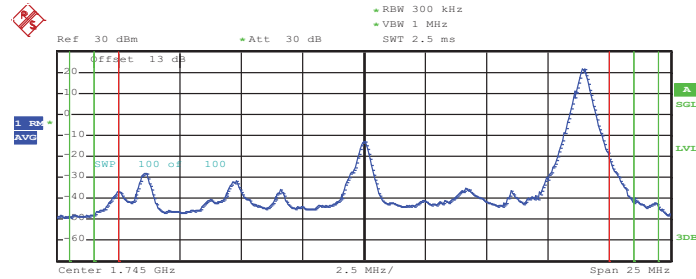
Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0



Date: 25.JUN.2013 14:09:46



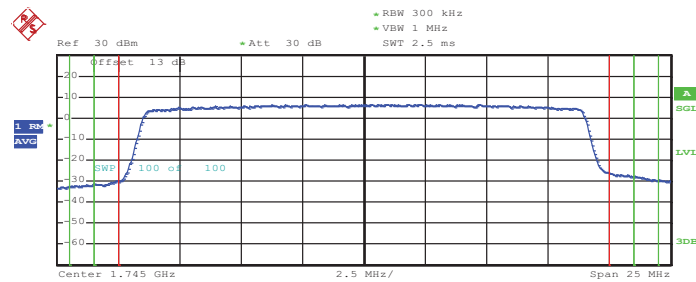
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99



Tx Channel	Bandwidth	20 MHz	Power	21.03 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-24.00 dBm
	Spacing	10.5 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-38.04 dBm
	Spacing	11.5 MHz		

Date: 25.JUN.2013 14:08:27

Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0



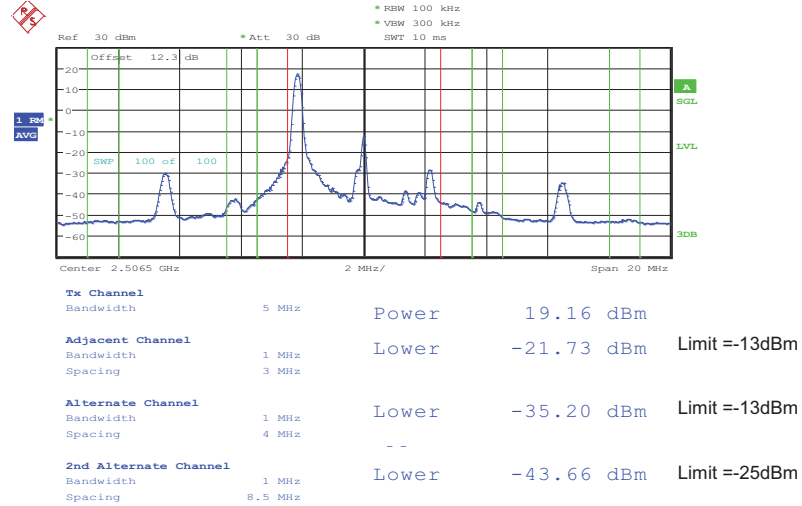
Tx Channel	Bandwidth	20 MHz	Power	22.50 dBm
Adjacent Channel	Bandwidth	1 MHz	Upper	-22.71 dBm
	Spacing	10.5 MHz		
Alternate Channel	Bandwidth	1 MHz	Upper	-24.29 dBm
	Spacing	11.5 MHz		

Date: 25.JUN.2013 14:07:58



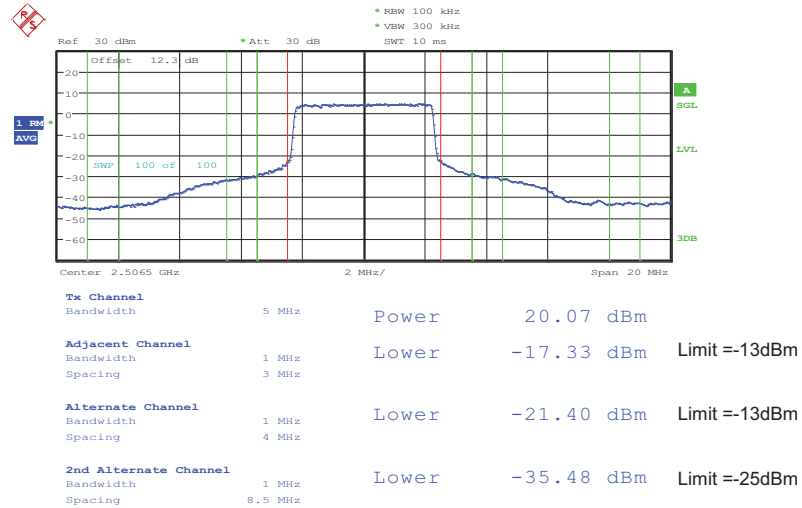
Band :	LTE Band 7	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.JUN.2013 09:17:41

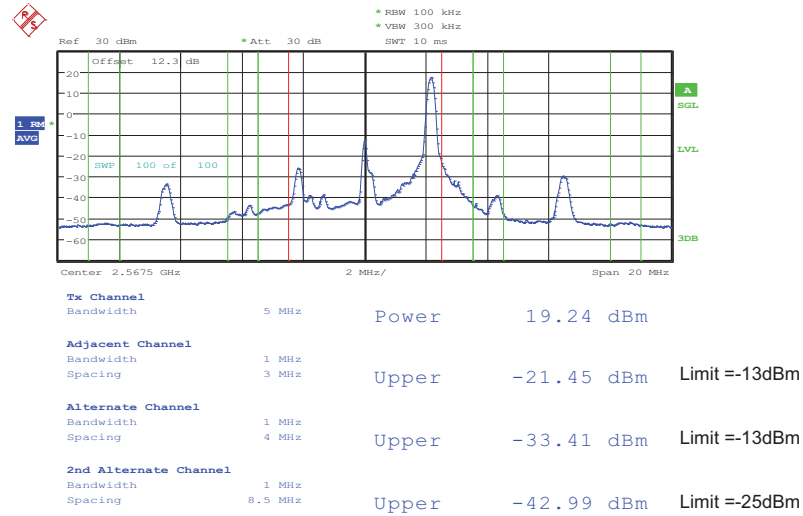
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 19.JUN.2013 09:11:17

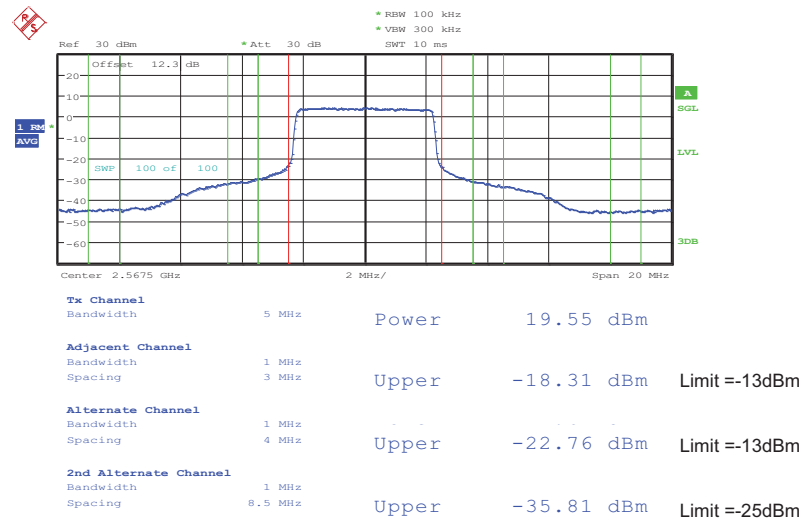


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 19.JUN.2013 09:18:46

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

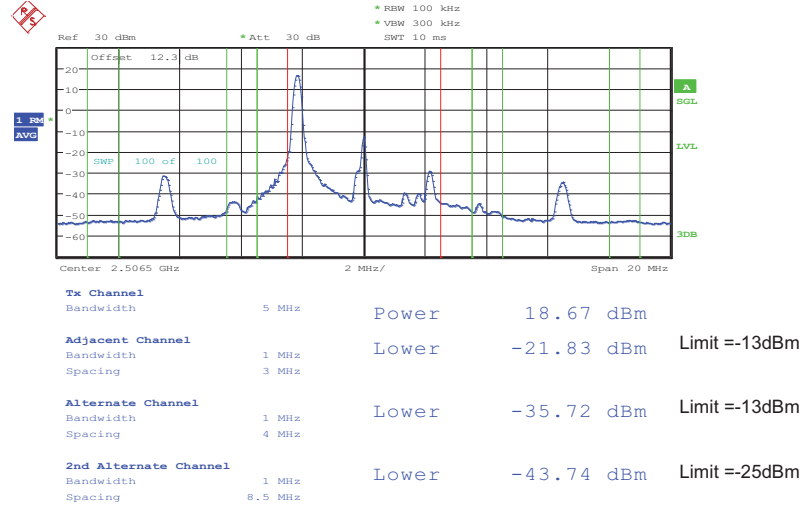


Date: 19.JUN.2013 09:19:41



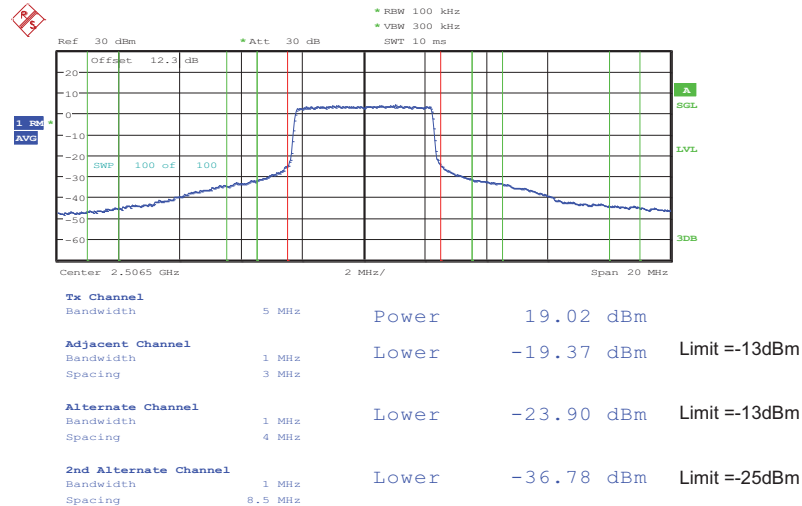
Band :	LTE Band 7	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 19.JUN.2013 09:17:27

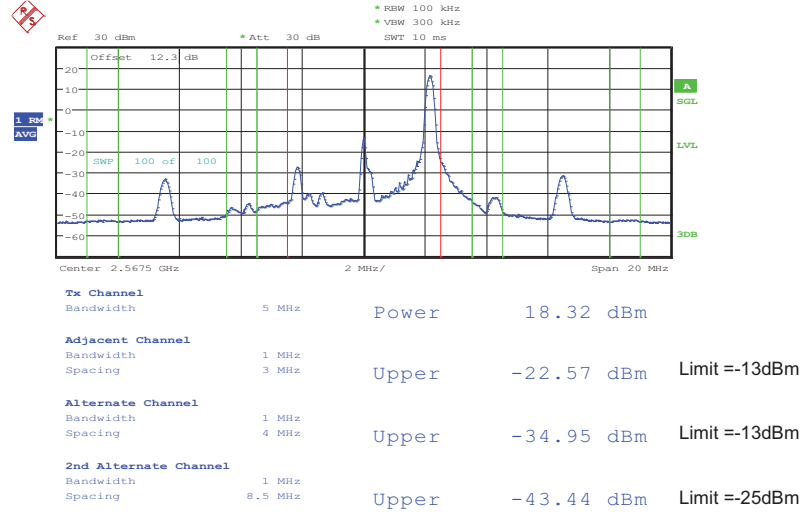
Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



Date: 19.JUN.2013 09:11:36

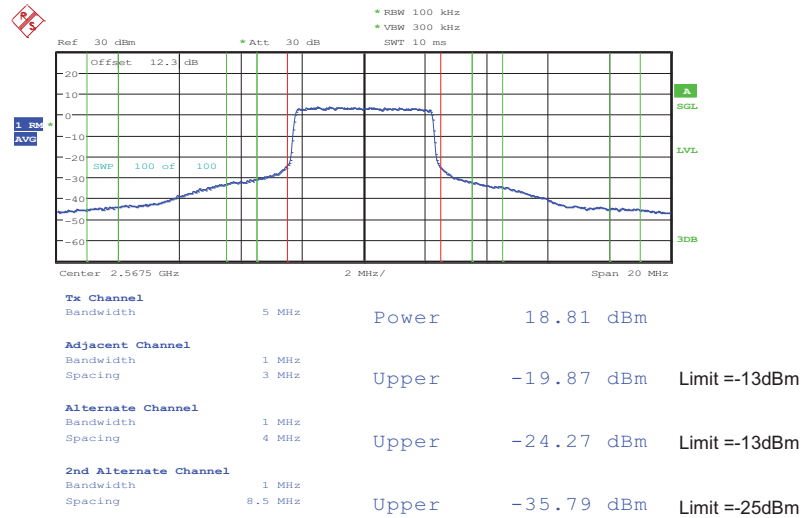


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 19.JUN.2013 09:19:01

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

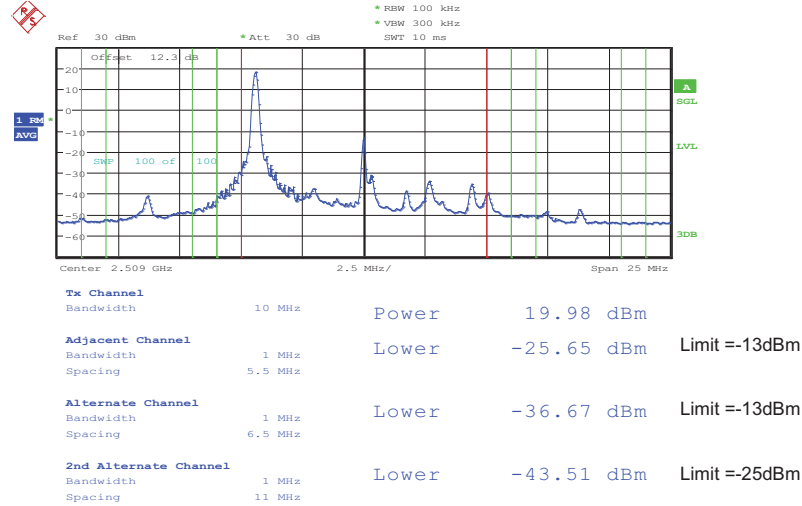


Date: 19.JUN.2013 09:19:25



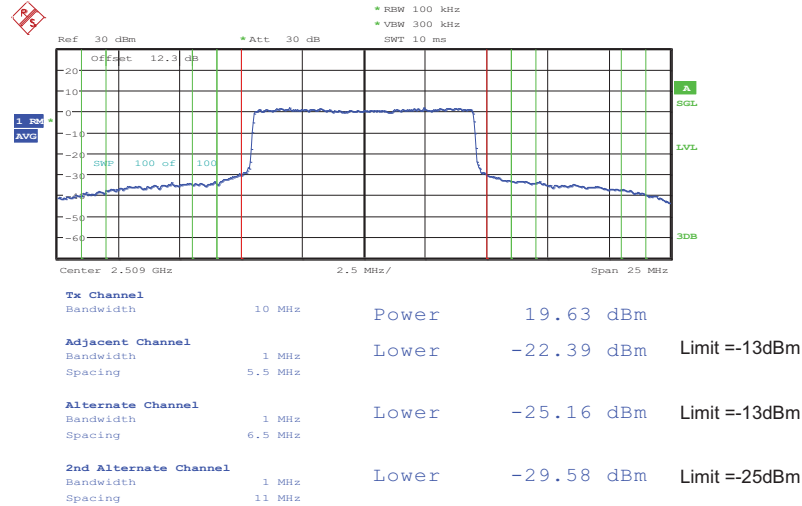
Band :	LTE Band 7	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.JUN.2013 09:25:38

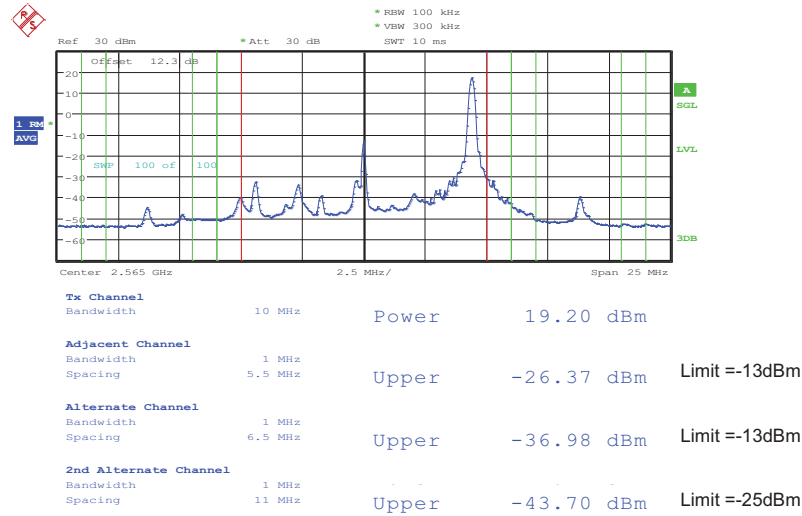
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 19.JUN.2013 09:26:33



Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 19.JUN.2013 09:23:14

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

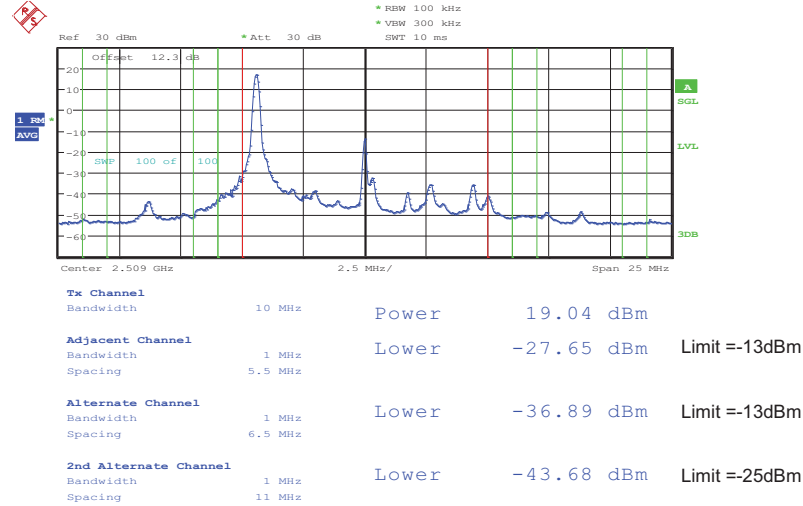


Date: 19.JUN.2013 09:22:02



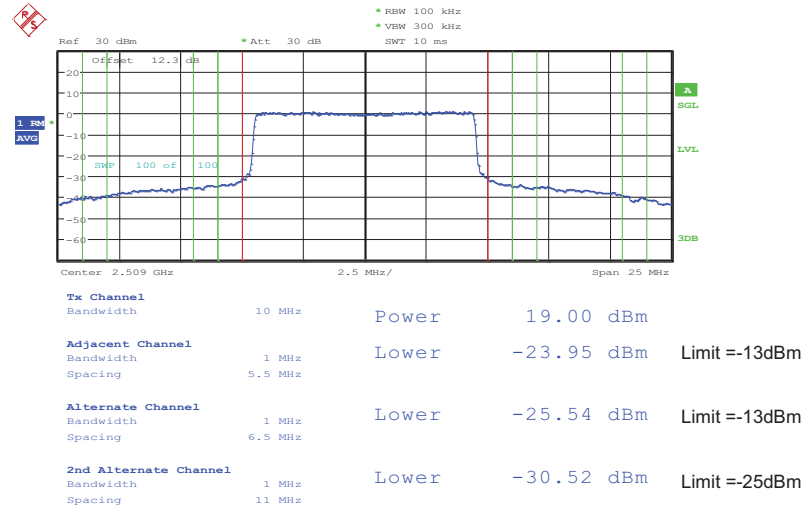
Band :	LTE Band 7	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 19.JUN.2013 09:25:56

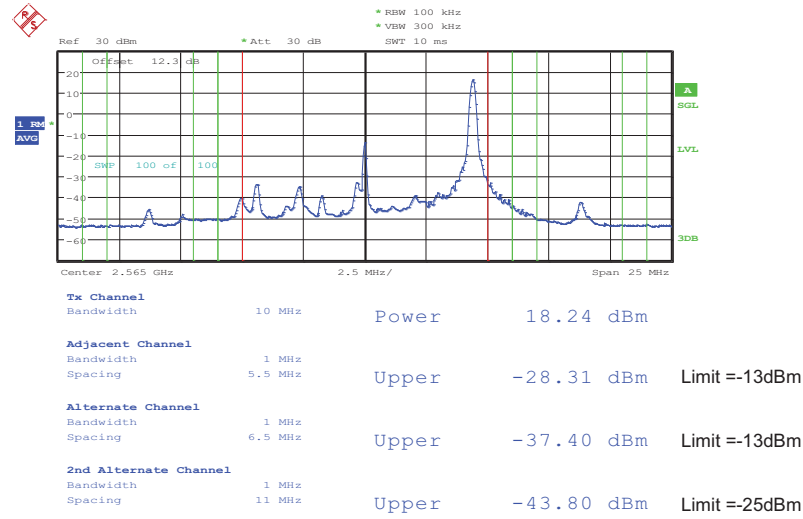
Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 19.JUN.2013 09:26:17



Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Date: 19.JUN.2013 09:22:57

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

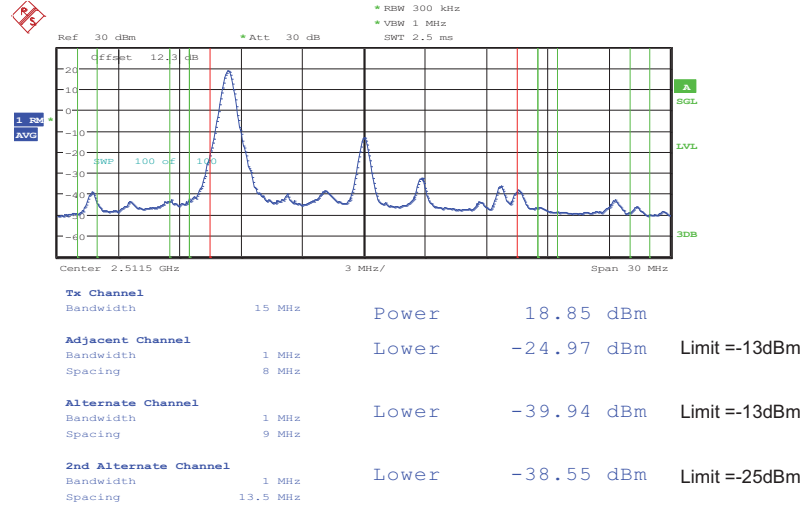


Date: 19.JUN.2013 09:22:22



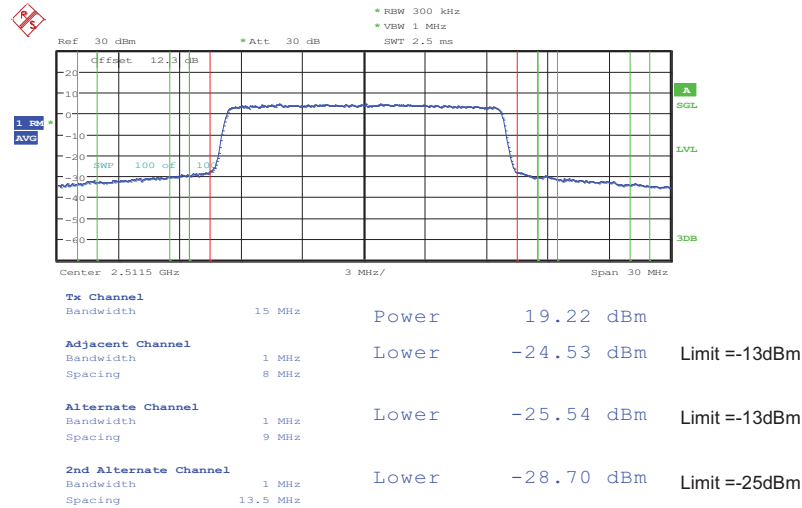
Band :	LTE Band 7	Band Width :	15MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.JUN.2013 09:30:28

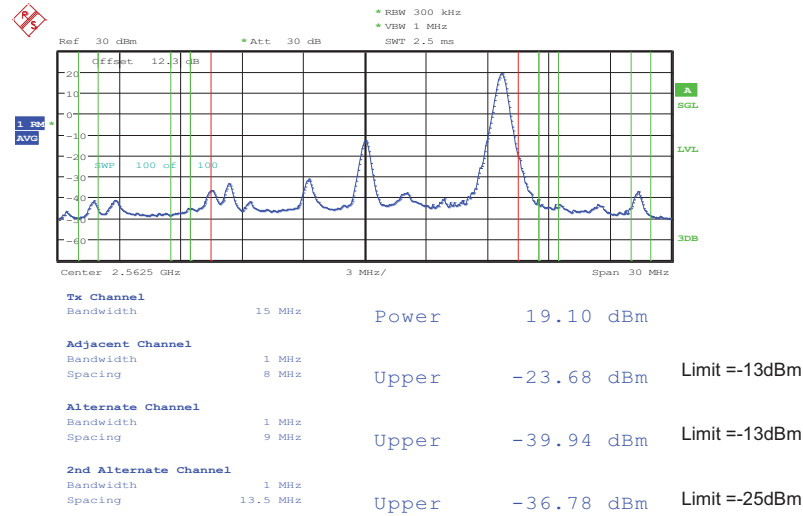
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 19.JUN.2013 09:29:44



Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



Date: 19.JUN.2013 09:34:51

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

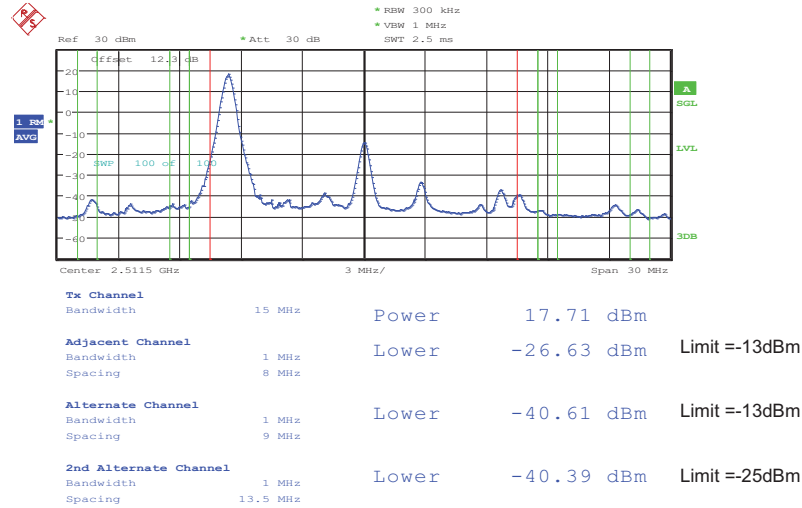


Date: 19.JUN.2013 09:35:40



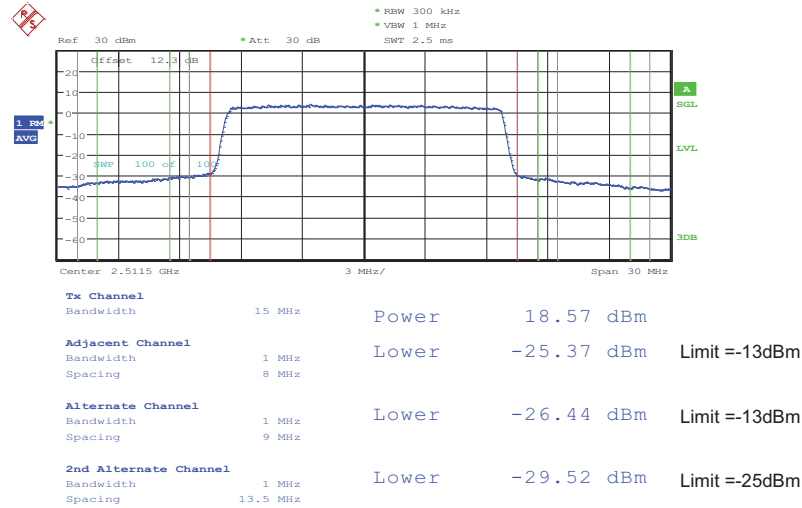
Band :	LTE Band 7	Band Width :	15MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 19.JUN.2013 09:30:14

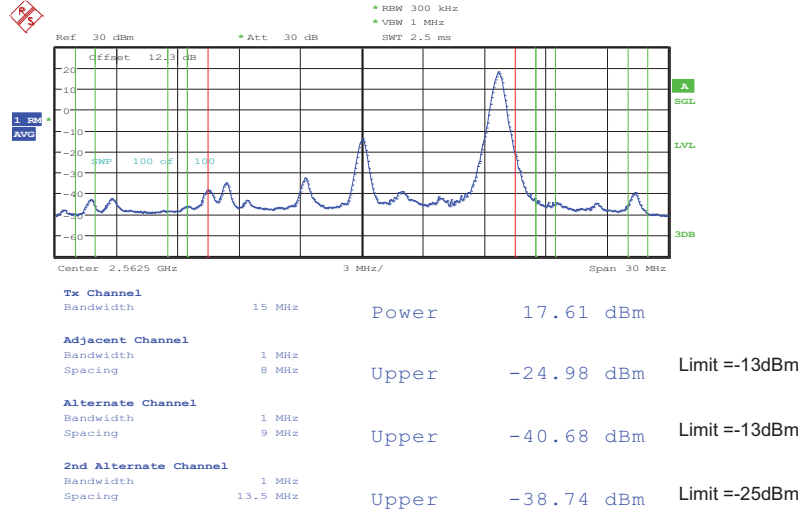
Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



Date: 19.JUN.2013 09:29:57



Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74



Date: 19.JUN.2013 09:35:06

Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

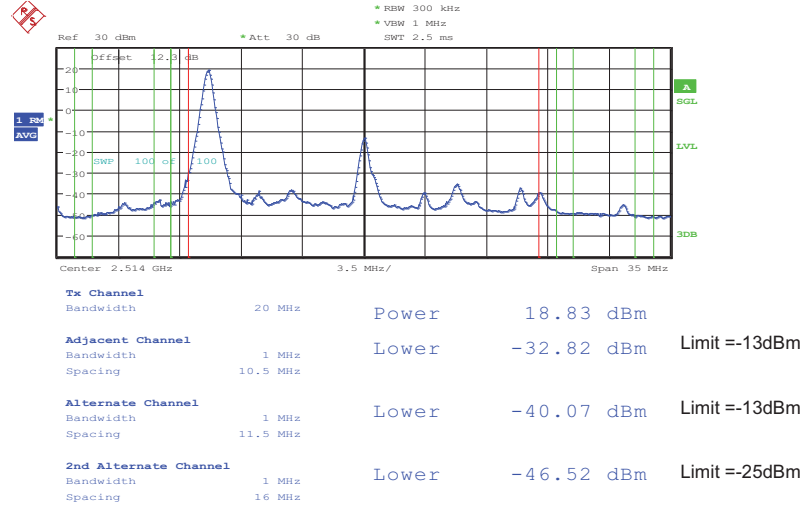


Date: 19.JUN.2013 09:35:26



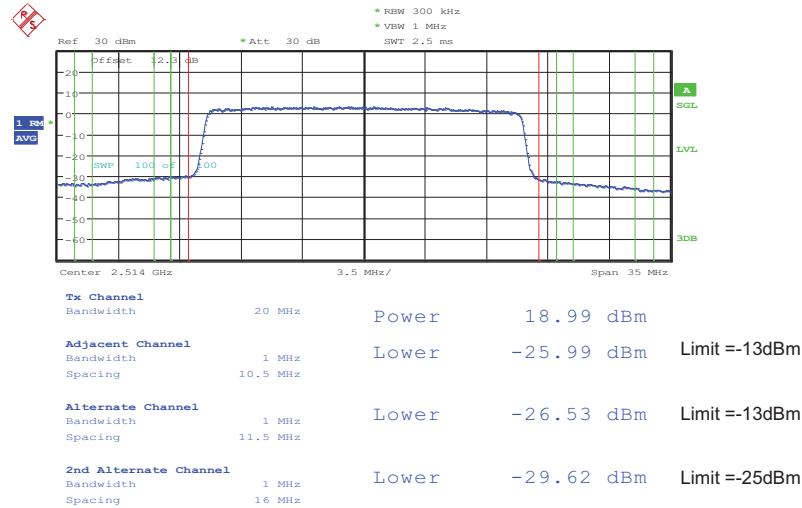
Band :	LTE Band 7	Band Width :	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 19.JUN.2013 09:47:40

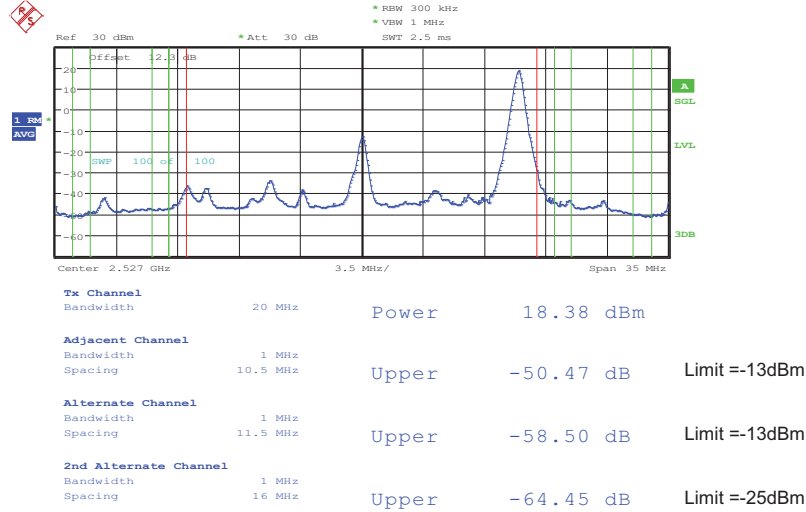
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 19.JUN.2013 09:48:40

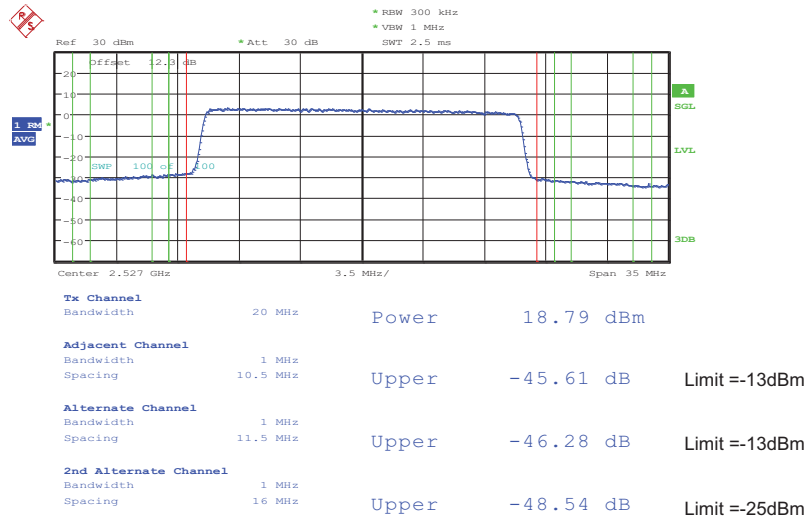


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



Date: 19.JUN.2013 15:09:41

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0

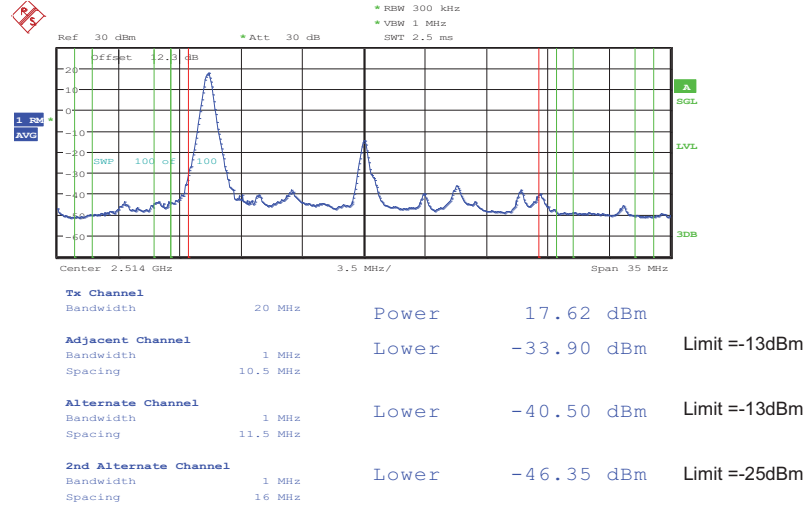


Date: 19.JUN.2013 15:08:52



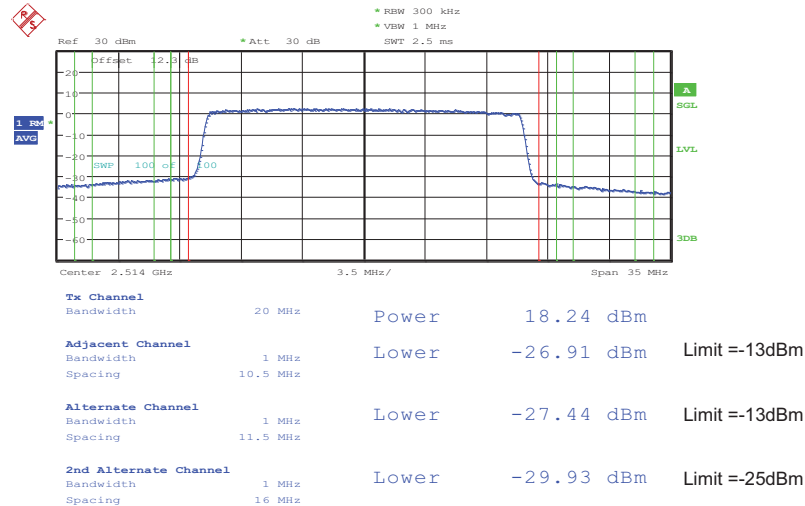
Band :	LTE Band 7	Band Width :	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 19.JUN.2013 09:47:56

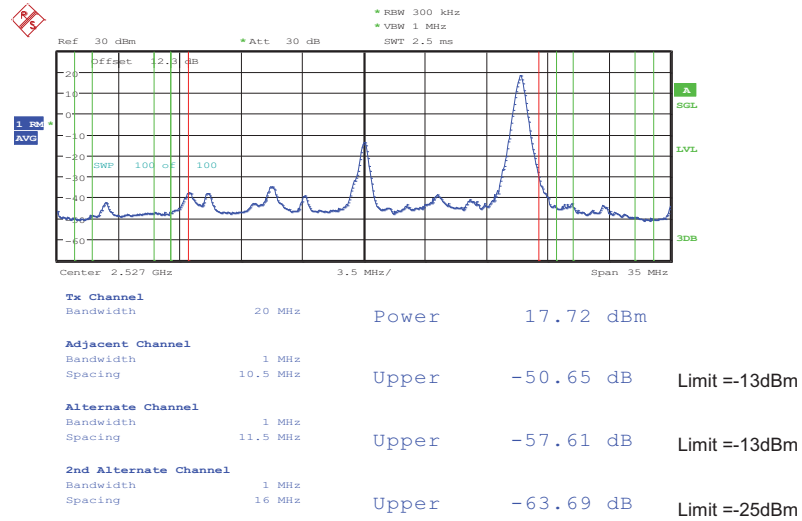
Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0



Date: 19.JUN.2013 09:48:20

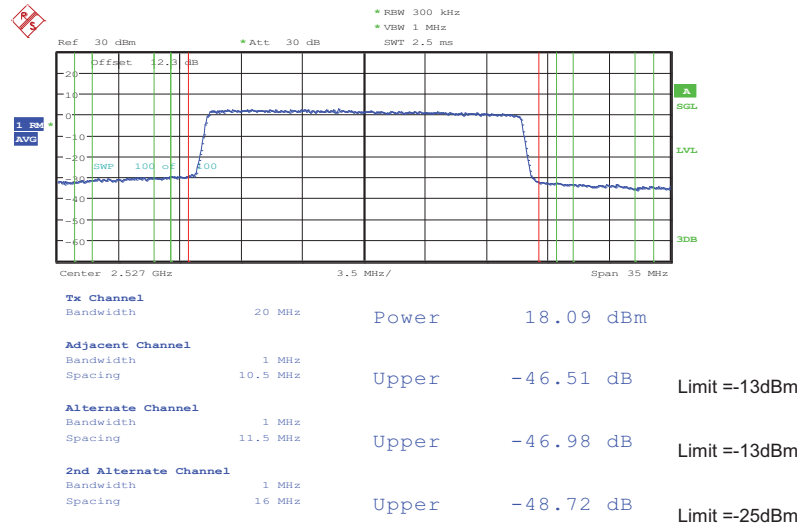


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99



Date: 19.JUN.2013 15:09:24

Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

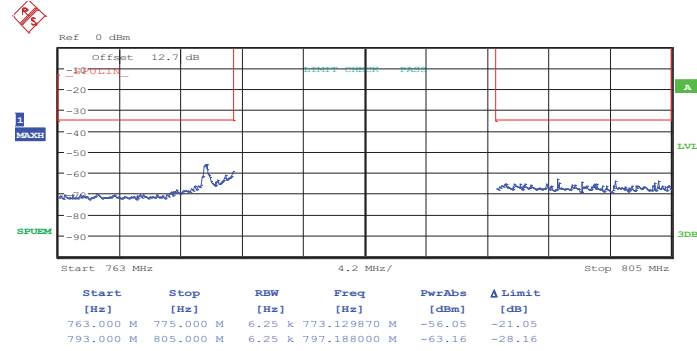


Date: 19.JUN.2013 15:09:04



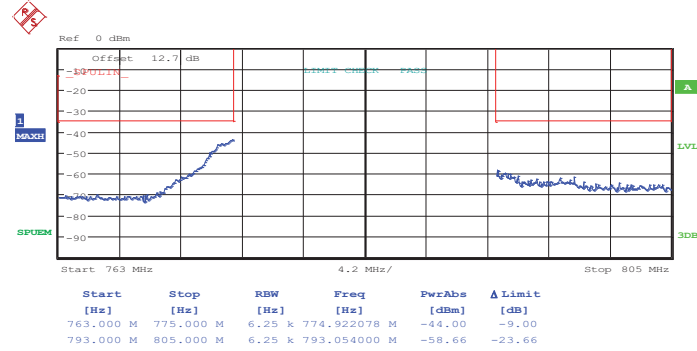
Band :	LTE Band 13	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 17.JUN.2013 16:31:44

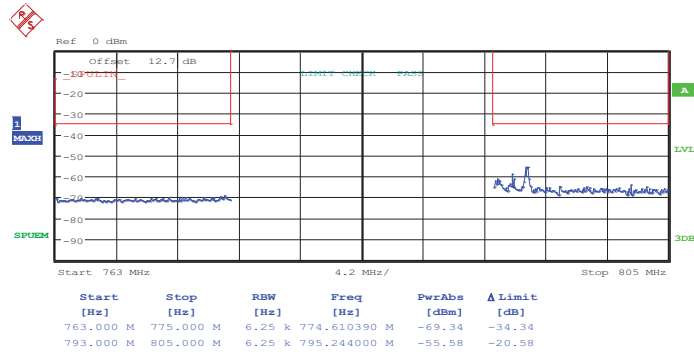
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 17.JUN.2013 16:31:58

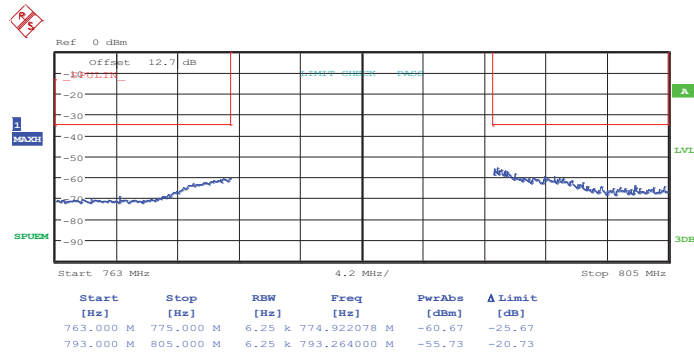


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 17.JUN.2013 16:34:24

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

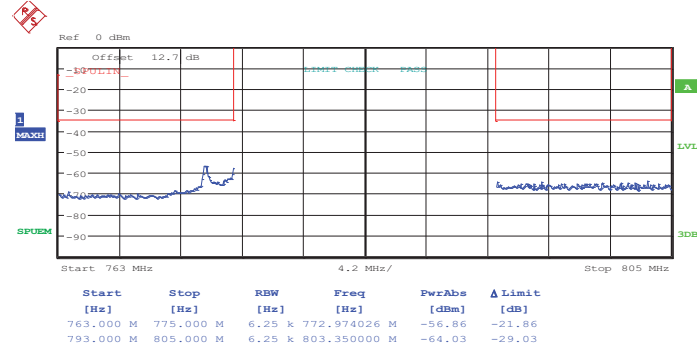


Date: 17.JUN.2013 16:33:09



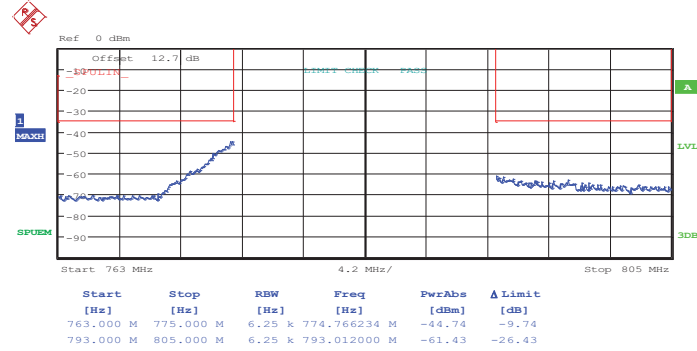
Band :	LTE Band 13	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



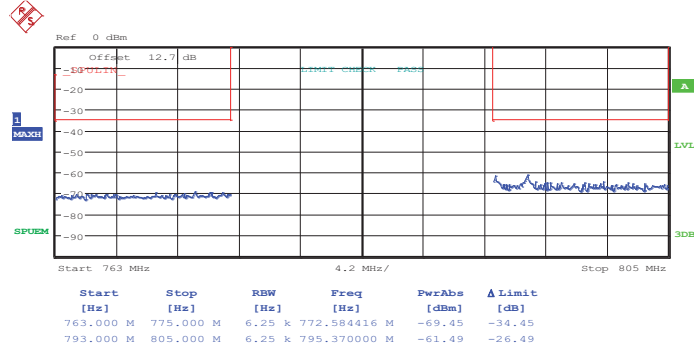
Date: 17.JUN.2013 16:31:32

Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



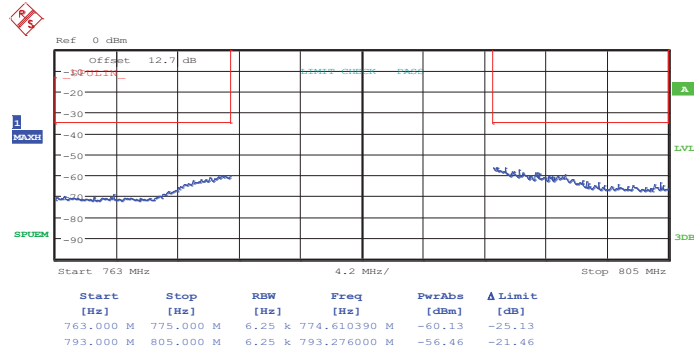
Date: 17.JUN.2013 16:32:12

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 17.JUN.2013 16:34:37

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

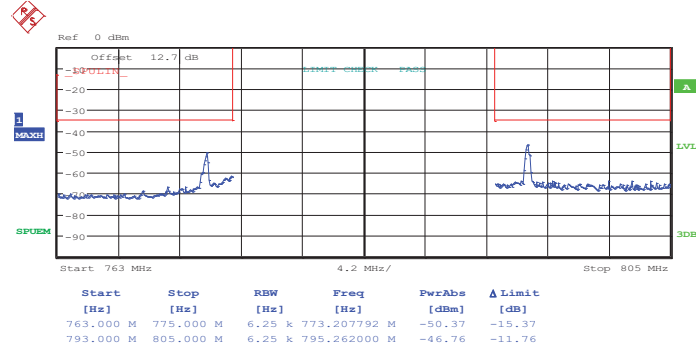


Date: 17.JUN.2013 16:32:53



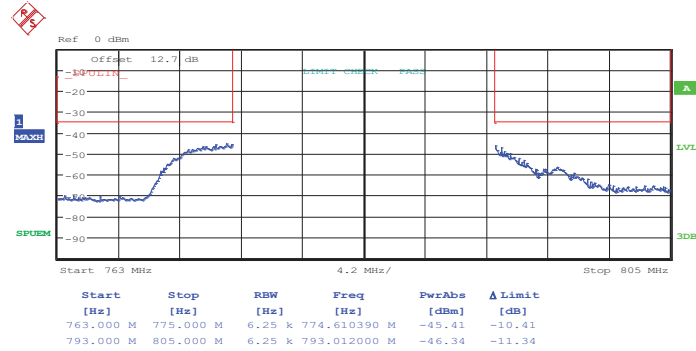
Band :	LTE Band 13	Band Width :	10MHz / QPSK
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Middle Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 17.JUN.2013 16:22:50

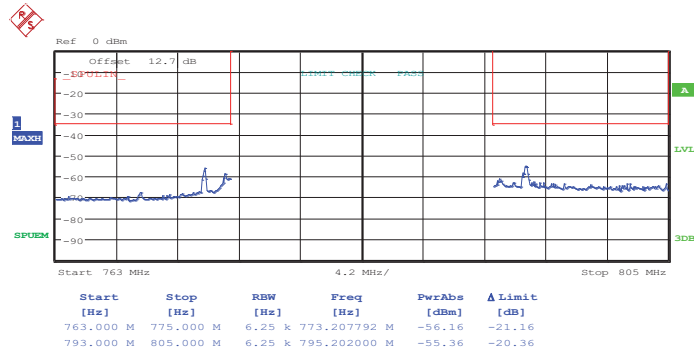
Middle Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 17.JUN.2013 16:23:39



Middle Band Edge Plot for QPSK-RB Size 1, RB Offset 49

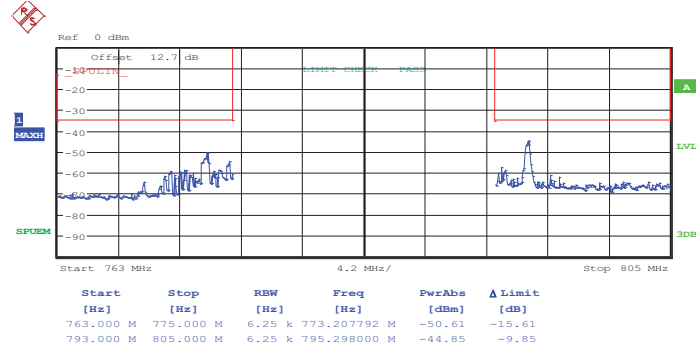


Date: 17.JUN.2013 16:22:31



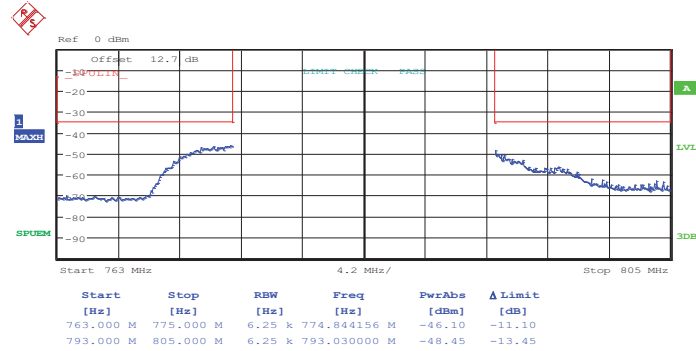
Band :	LTE Band 13	Band Width :	10MHz / 16QAM
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Middle Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 17.JUN.2013 16:23:05

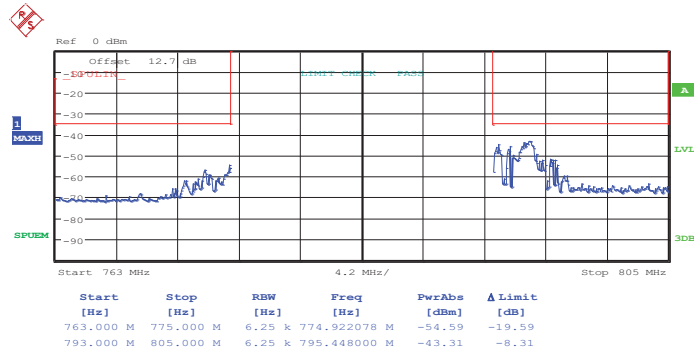
Middle Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 17.JUN.2013 16:23:25



Middle Band Edge Plot for 16QAM-RB Size 1, RB Offset 49

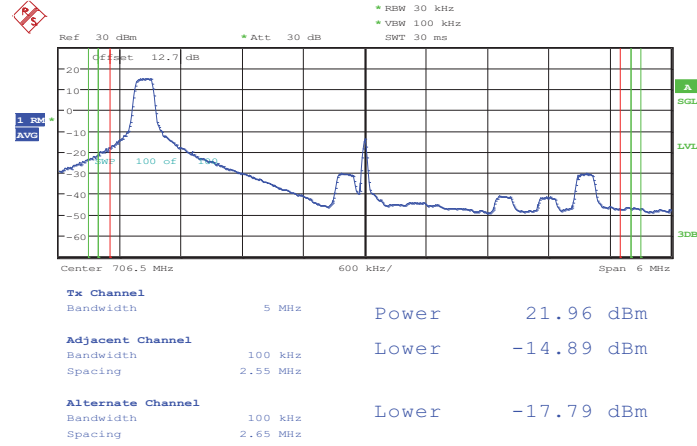


Date: 17.JUN.2013 16:21:32



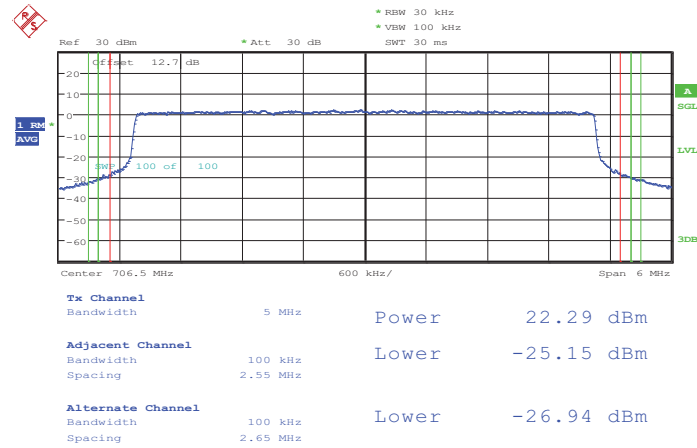
Band :	LTE Band 17	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 18.JUN.2013 16:40:43

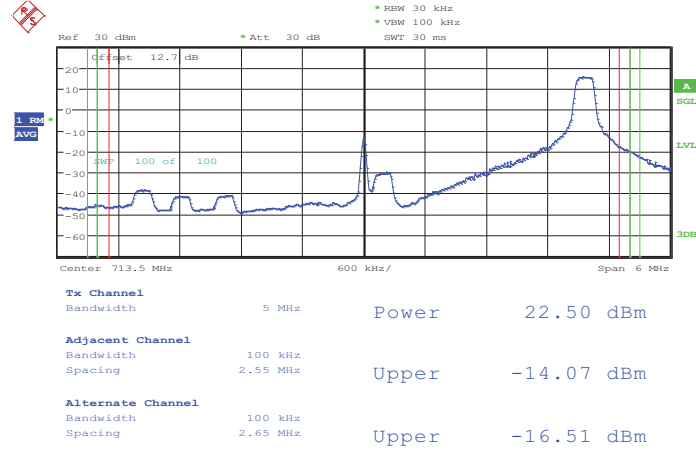
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 18.JUN.2013 16:38:47

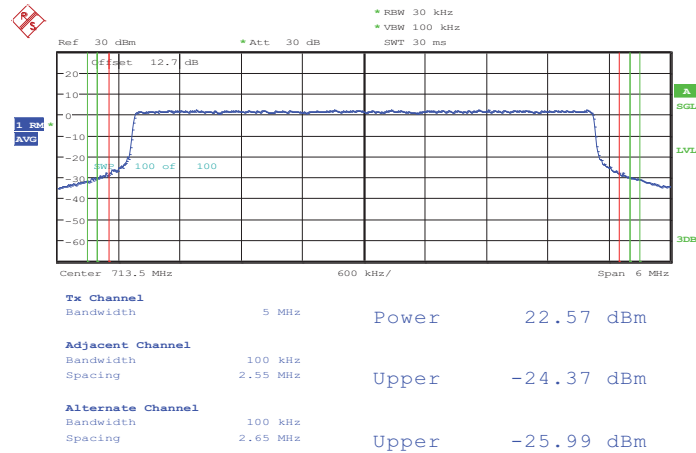


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 18.JUN.2013 16:41:36

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

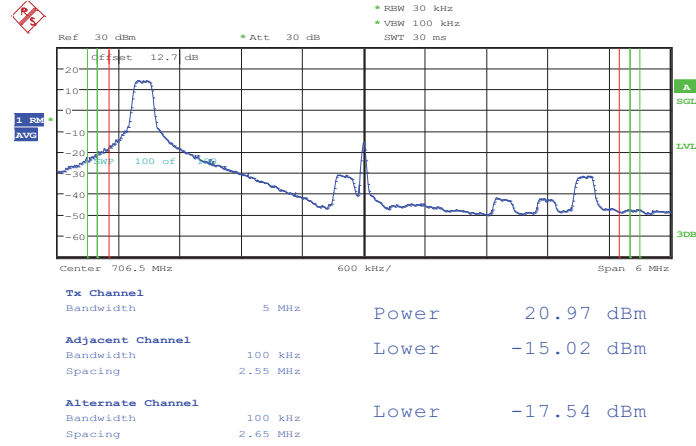


Date: 18.JUN.2013 16:42:21



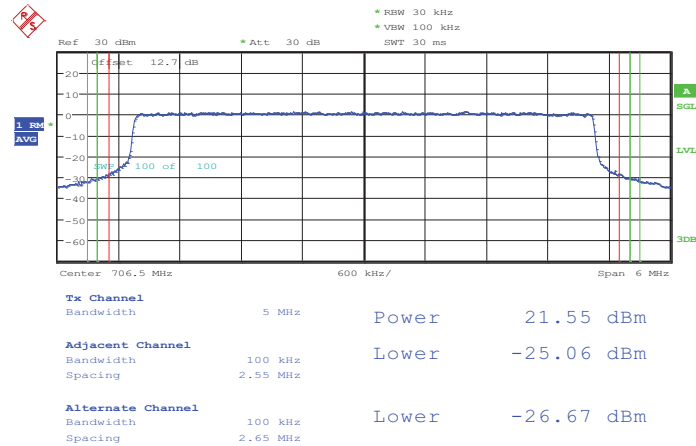
Band :	LTE Band 17	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 18.JUN.2013 16:40:26

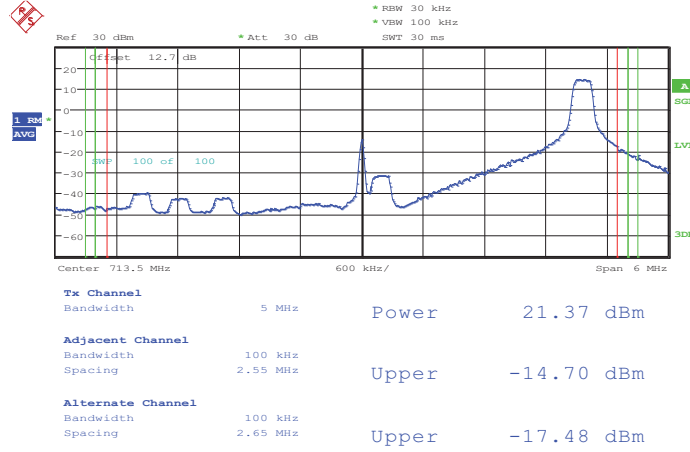
Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



Date: 18.JUN.2013 16:39:06

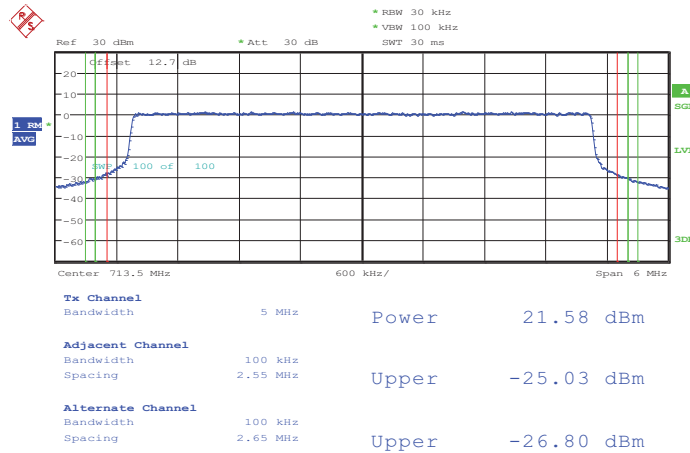


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 18.JUN.2013 16:41:49

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

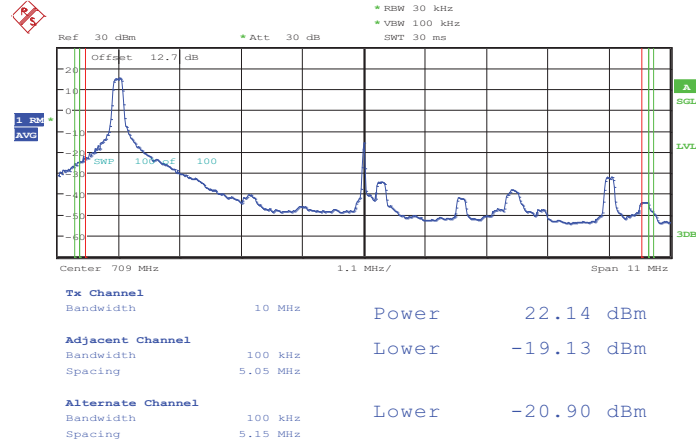


Date: 18.JUN.2013 16:42:08



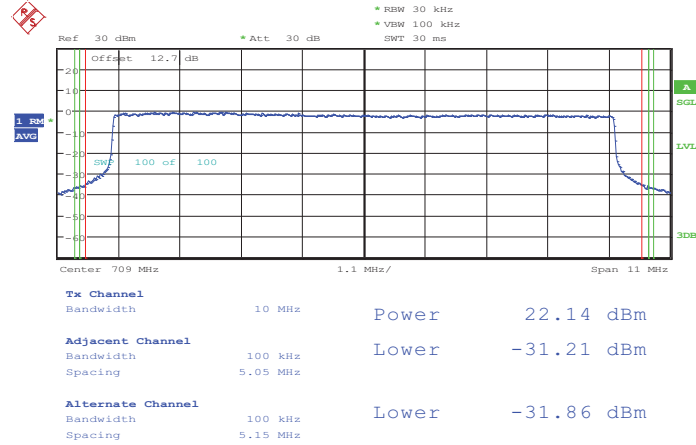
Band :	LTE Band 17	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 18.JUN.2013 16:46:02

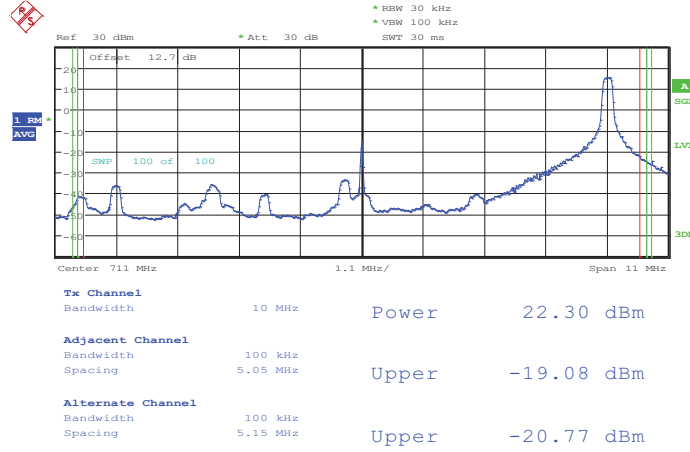
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 18.JUN.2013 16:46:56

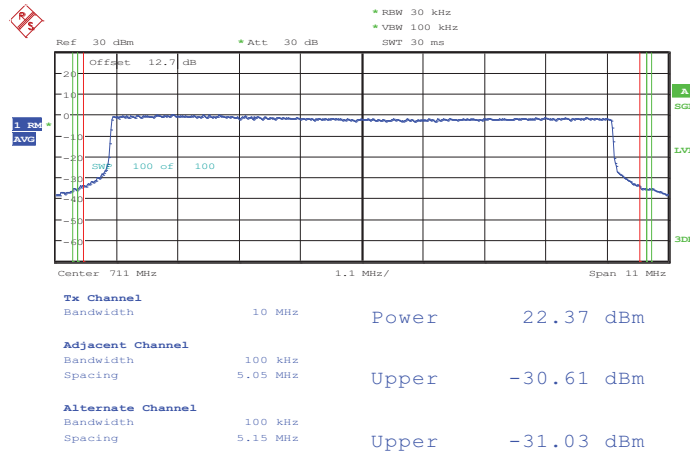


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 18.JUN.2013 16:45:19

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

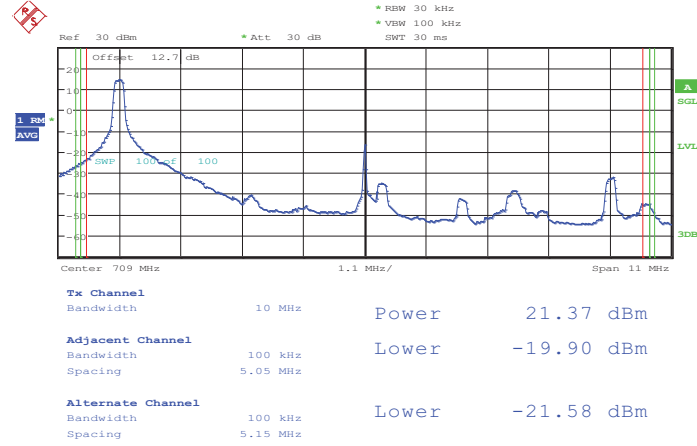


Date: 18.JUN.2013 16:44:18



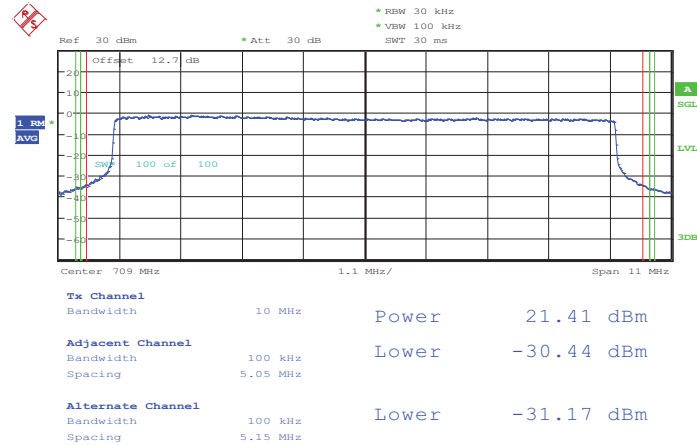
Band :	LTE Band 17	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 18.JUN.2013 16:46:21

Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 18.JUN.2013 16:46:39

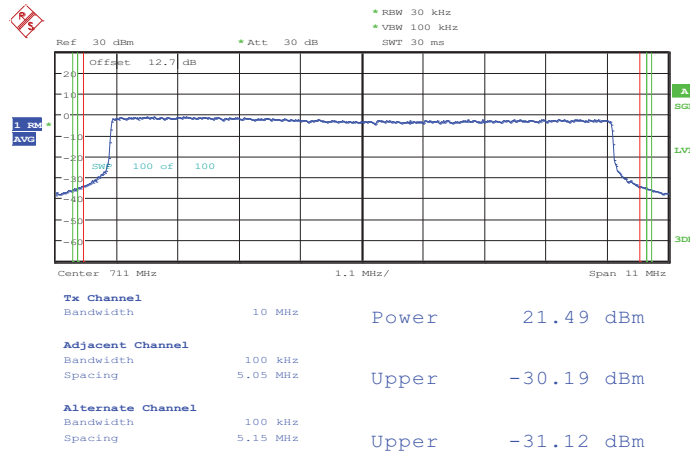


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Date: 18.JUN.2013 16:45:04

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 18.JUN.2013 16:44:37