



FCC RF Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : GSM/WCDMA/LTE Multi-Mode Digital Mobile Phone
BRAND NAME : ZTE
MODEL NAME : Z998
FCC ID : Q78-Z998
STANDARD : 47 CFR Part 2, 22H, 24E, 27H, 27L
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Feb. 04, 2013 and completely tested on Mar. 15, 2013. We, SPORTON INTERNATIONAL (KUNSHAN) 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	NA	Conducted Output Power	NA	PASS	
3.1	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	ERP < 7 Watts (Band 5)	PASS	-
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	EIRP < 2 Watt (Band 2)	PASS	-
3.1	§27.50(c)(10) §27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Effective Radiated Power and Equivalent Isotropic Radiated Power	ERP < 3 Watts (Band 17) EIRP < 1 Watt (Band 4)	PASS	-
3.2	§24.232(d) §27.50(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(g) (h)	N/A	Occupied Bandwidth	NA	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a) §27.53(g)(h)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Conducted Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a) §27.53(g)(h)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Conducted Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 11.44 dB at 5552.000 MHz
3.5	§2.1053 §22.917(a) §24.238(a) §27.53(g)(h)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Undesirable Out of Band Emissions	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1055 §22.355 §24.235 §27.54	RSS-132 (4.3) RSS-133 (6.3) RSS-139 (6.3)	Frequency Stability Temperature & Voltage	< 2.5 ppm	PASS	-



1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China



1.3 Feature of Equipment Under Test

Product Feature	
Equipment	GSM/WCDMA/LTE Multi-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z998
FCC ID	Q78-Z998
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/DC-HSDPA /LTE/WLAN11bgn/Bluetooth EDR/Bluetooth v4.0 - LE
HW Version	w9bA
SW Version	Z998V1.0.0B04
EUT Stage	Identical Prototype

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

Product Specification subjective to this standard	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz/ 10MHz / 15MHz / 20MHz (Band 2 and Band 4) 1.4MHz / 3MHz / 5MHz/ 10MHz (Band 5) 5MHz / 10MHz (Band 17)
Maximum Output Power to Antenna	LTE Band 2 : 23.26 dBm LTE Band 4 : 24.17 dBm LTE Band 5 : 23.78 dBm LTE Band 17 : 24.06 dBm
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM

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

1.4 Emission Designator and Maximum ERP/EIRP Power

FCC Rule	System	Type of Modulation	BW	Maximum EIRP (W)	Frequency Tolerance (% , Hz, ppm)	Emission Designator
Part 24E	LTE Band 2	QPSK	1.4MHz	0.3357 W	0.015 ppm	1M10G7D
Part 24E	LTE Band 2	16QAM	1.4MHz	0.3334 W	0.015 ppm	1M10D7W
Part 24E	LTE Band 2	QPSK	3MHz	0.3357 W	0.010 ppm	2M72G7D
Part 24E	LTE Band 2	16QAM	3MHz	0.3228 W	0.010 ppm	2M74D7W
Part 24E	LTE Band 2	QPSK	5MHz	0.3236 W	0.013 ppm	4M50G7D
Part 24E	LTE Band 2	16QAM	5MHz	0.3184 W	0.012 ppm	4M50D7W
Part 24E	LTE Band 2	QPSK	10MHz	0.3221 W	0.012 ppm	9M16G7D
Part 24E	LTE Band 2	16QAM	10MHz	0.3420 W	0.014 ppm	9M12D7W
Part 24E	LTE Band 2	QPSK	15MHz	0.3162 W	0.012 ppm	13M5G7D
Part 24E	LTE Band 2	16QAM	15MHz	0.3236 W	0.011 ppm	13M5D7W
Part 24E	LTE Band 2	QPSK	20MHz	0.3281 W	0.011 ppm	18M0G7D
Part 24E	LTE Band 2	16QAM	20MHz	0.3436 W	0.010 ppm	18M0D7W
Part 27L	LTE Band 4	QPSK	1.4MHz	0.2965 W	0.008 ppm	1M10G7D
Part 27L	LTE Band 4	16QAM	1.4MHz	0.2858 W	0.009 ppm	1M11D7W
Part 27L	LTE Band 4	QPSK	3MHz	0.3112 W	0.007 ppm	2M75G7D
Part 27L	LTE Band 4	16QAM	3MHz	0.3041 W	0.008 ppm	2M75D7W
Part 27L	LTE Band 4	QPSK	5MHz	0.2897 W	0.007 ppm	4M50G7D
Part 27L	LTE Band 4	16QAM	5MHz	0.3119 W	0.009 ppm	4M52D7W
Part 27L	LTE Band 4	QPSK	10MHz	0.3006 W	0.006 ppm	9M12G7D
Part 27L	LTE Band 4	16QAM	10MHz	0.2917 W	0.008 ppm	9M12D7W
Part 27L	LTE Band 4	QPSK	15MHz	0.3048 W	0.005 ppm	13M6G7D
Part 27L	LTE Band 4	16QAM	15MHz	0.3990 W	0.007 ppm	13M6D7W
Part 27L	LTE Band 4	QPSK	20MHz	0.3133 W	0.006 ppm	18M0G7D
Part 27L	LTE Band 4	16QAM	20MHz	0.3281 W	0.008 ppm	18M0D7W



FCC Rule	System	Type of Modulation	BW	Maximum ERP (W)	Frequency Tolerance (% , Hz, ppm)	Emission Designator
Part 22H	LTE Band 5	QPSK	1.4MHz	0.0948 W	0.008 ppm	1M10G7D
Part 22H	LTE Band 5	16QAM	1.4MHz	0.0948 W	0.010 ppm	1M10D7W
Part 22H	LTE Band 5	QPSK	3MHz	0.0927 W	0.008 ppm	2M74G7D
Part 22H	LTE Band 5	16QAM	3MHz	0.0977 W	0.010 ppm	2M72D7W
Part 22H	LTE Band 5	QPSK	5MHz	0.0916 W	0.009 ppm	4M48G7D
Part 22H	LTE Band 5	16QAM	5MHz	0.0942 W	0.011 ppm	4M50D7W
Part 22H	LTE Band 5	QPSK	10MHz	0.1069 W	0.007 ppm	9M12G7D
Part 22H	LTE Band 5	16QAM	10MHz	0.1050 W	0.010 ppm	9M08D7W
Part 27H	LTE Band 17	QPSK	5MHz	0.0951 W	0.007 ppm	4M52G7D
Part 27H	LTE Band 17	16QAM	5MHz	0.0966 W	0.008 ppm	4M52D7W
Part 27H	LTE Band 17	QPSK	10MHz	0.1076 W	0.010 ppm	9M12G7D
Part 27H	LTE Band 17	16QAM	10MHz	0.0984 W	0.012 ppm	9M12D7W



1.5 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.
	03CH07-HY	TW1022/4086B-1

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.	
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	FCC/IC Registration No.
	TH01-KS	149928/4086E-1



1.6 Applied Standards

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

- ♦ 47 CFR Part 2, 22H, 24E, 27H, 27L
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v01

Remark:

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

1.7 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
3.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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 is as follows:

1. 30 MHz to 19000 MHz for LTE Band 2.
2. 30 MHz to 18000 MHz for LTE Band 4.
3. 30 MHz to 9000 MHz LTE Band 5.
4. 30 MHz to 8000 MHz LTE Band 17.

Test Modes			
Band		Radiated TCs	Conducted TCs
LTE Band 2	BW 1.4MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 2) Link ■ LTE (RB Size 1, RB Offset 5) Link ■ LTE (RB Size 3, RB Offset 0) Link ■ LTE (RB Size 3, RB Offset 1) Link ■ LTE (RB Size 3, RB Offset 2) Link ■ LTE (RB Size 6, RB Offset 0) Link
	BW 3MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 7) Link ■ LTE (RB Size 1, RB Offset 14) Link ■ LTE (RB Size 8, RB Offset 0) Link ■ LTE (RB Size 8, RB Offset 4) Link ■ LTE (RB Size 8, RB Offset 7) Link ■ LTE (RB Size 15, RB Offset 0) Link
	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 12) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 12, RB Offset 0) Link ■ LTE (RB Size 12, RB Offset 6) Link ■ LTE (RB Size 12, RB Offset 11) Link ■ LTE (RB Size 25, RB Offset 0) Link



LTE Band 2	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) 16QAM Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 25, RB Offset 0) Link ■ LTE (RB Size 25, RB Offset 12) Link ■ LTE (RB Size 25, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 0) Link
	BW 15MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) 16QAM Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 37) Link ■ LTE (RB Size 1, RB Offset 74) Link ■ LTE (RB Size 36, RB Offset 0) Link ■ LTE (RB Size 36, RB Offset 19) Link ■ LTE (RB Size 36, RB Offset 39) Link ■ LTE (RB Size 75, RB Offset 0) Link
	BW 20MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 1, RB Offset 99) Link ■ LTE (RB Size 50, RB Offset 0) Link ■ LTE (RB Size 50, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 49) Link ■ LTE (RB Size 100, RB Offset 0) Link



Test Modes		
Band	Radiated TCs	Conducted TCs
LTE Band 4	BW 1.4MHz ■ LTE (RB Size 1, RB Offset 0) QPSK Link	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 2) Link ■ LTE (RB Size 1, RB Offset 5) Link ■ LTE (RB Size 3, RB Offset 0) Link ■ LTE (RB Size 3, RB Offset 1) Link ■ LTE (RB Size 3, RB Offset 2) Link ■ LTE (RB Size 6, RB Offset 0) Link
	BW 3MHz ■ LTE (RB Size 1, RB Offset 0) QPSK Link	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 7) Link ■ LTE (RB Size 1, RB Offset 14) Link ■ LTE (RB Size 8, RB Offset 0) Link ■ LTE (RB Size 8, RB Offset 4) Link ■ LTE (RB Size 8, RB Offset 7) Link ■ LTE (RB Size 15, RB Offset 0) Link
	BW 5MHz ■ LTE (RB Size 1, RB Offset 0) QPSK Link	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 12) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 12, RB Offset 0) Link ■ LTE (RB Size 12, RB Offset 6) Link ■ LTE (RB Size 12, RB Offset 11) Link ■ LTE (RB Size 25, RB Offset 0) Link
	BW 10MHz ■ LTE (RB Size 1, RB Offset 49) QPSK Link	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 25, RB Offset 0)Link ■ LTE (RB Size 25, RB Offset 12) Link ■ LTE (RB Size 25, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 0) Link
	BW 15MHz ■ LTE (RB Size 1, RB Offset 0) 16QAM Link	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 37) Link ■ LTE (RB Size 1, RB Offset 74) Link ■ LTE (RB Size 38, RB Offset 0) Link ■ LTE (RB Size 38, RB Offset 18) Link ■ LTE (RB Size 38, RB Offset 37) Link ■ LTE (RB Size 75, RB Offset 0) Link

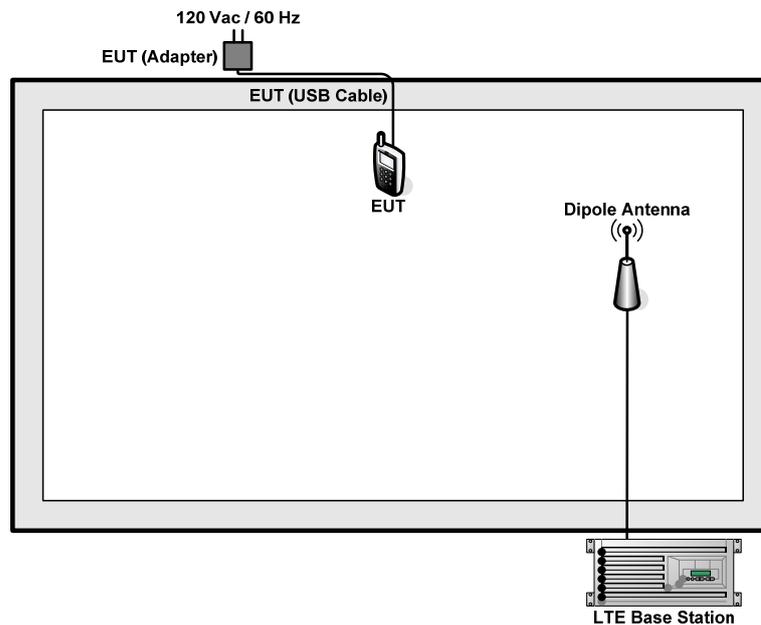


LTE Band 4	BW 20MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 1, RB Offset 99) Link ■ LTE (RB Size 50, RB Offset 0) Link ■ LTE (RB Size 50, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 49) Link ■ LTE (RB Size 100, RB Offset 0) Link
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Test Modes			
Band	Radiated TCs	Conducted TCs	
LTE Band 5	BW 1.4MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 2) Link ■ LTE (RB Size 1, RB Offset 5) Link ■ LTE (RB Size 3, RB Offset 0) Link ■ LTE (RB Size 3, RB Offset 1) Link ■ LTE (RB Size 3, RB Offset 2) Link ■ LTE (RB Size 6, RB Offset 0) Link
	BW 3MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 7) Link ■ LTE (RB Size 1, RB Offset 14) Link ■ LTE (RB Size 8, RB Offset 0) Link ■ LTE (RB Size 8, RB Offset 4) Link ■ LTE (RB Size 8, RB Offset 7) Link ■ LTE (RB Size 15, RB Offset 0) Link
	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 12) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 12, RB Offset 0) Link ■ LTE (RB Size 12, RB Offset 6) Link ■ LTE (RB Size 11, RB Offset 11) Link ■ LTE (RB Size 25, RB Offset 0) Link
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 25, RB Offset 0) Link ■ LTE (RB Size 25, RB Offset 12) Link ■ LTE (RB Size 25, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 0) Link

LTE Band 17	BW 5MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 24) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 12) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 12, RB Offset 0) Link ■ LTE (RB Size 12, RB Offset 6) Link ■ LTE (RB Size 12, RB Offset 11) Link ■ LTE (RB Size 25, RB Offset 0) Link
	BW 10MHz	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 49) QPSK Link 	<ul style="list-style-type: none"> ■ LTE (RB Size 1, RB Offset 0) Link ■ LTE (RB Size 1, RB Offset 24) Link ■ LTE (RB Size 1, RB Offset 49) Link ■ LTE (RB Size 25, RB Offset 0) Link ■ LTE (RB Size 25, RB Offset 12) Link ■ LTE (RB Size 25, RB Offset 24) Link ■ LTE (RB Size 50, RB Offset 0) Link

2.2 Connection Diagram of Test System



3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Maximum Output Power and Effective Radiated Power/ Effective Isotropic Radiated Power Measurement

Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v01. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watt with band 5 and 3 watt with band 17.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004. Mobile and portable (hand-held) stations operating in each channel are limited to average EIRP of 2 watts with band 2 and 1 watt with band 4.

The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts. According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

For Conducted Power Measurement:

1. The RF output of the transmitter was connected to base station simulator.
2. Set EUT at maximum average power by base station simulator.
3. Measure lowest, middle, and highest channels for each bandwidth and different modulation.

For Effective Radiated Power and Effective Isotropic Radiated Power Measurement:

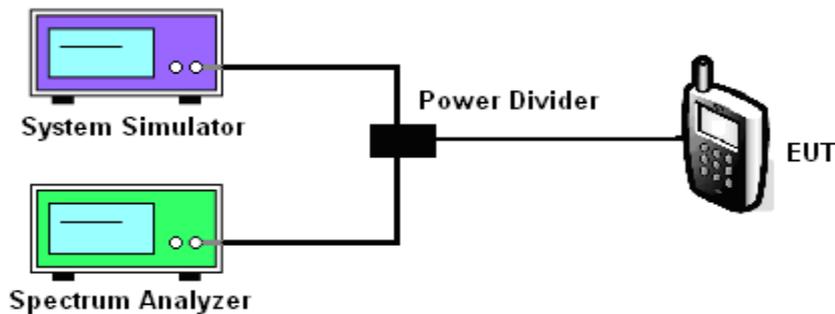
1. The EUT was placed on a non-conductive rotating platform with 0.8 meter height in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 100KHz, VBW= 300KHz for BW 1.4MHz and BW 3MHz, RBW= 300KHz, VBW= 1MHz for BW 5MHz and BW 10MHz, RBW= 1MHz, VBW= 3MHz for BW 15MHz and BW 20MHz, RMS detector, and used Channel Power function with measurement bandwidth = 5MHz/10MHz per section 4.0 of KDB 971168 D01.
2. During the measurement, the EUT was enforced in maximum power and linked with a base

station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.

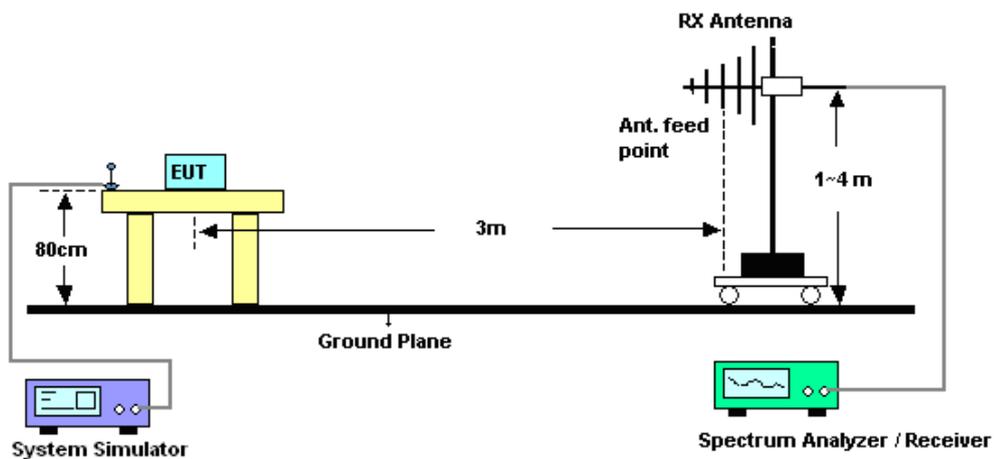
- Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$.

3.1.4 Test Setup

<Conducted Power and Band Edge Measurement>



<Effective Radiated Power and Effective Isotropic Radiated Power Measurement>



3.1.5 Test Result of Conducted Output Power

Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	1.4MHz	18607	1850.7	QPSK	1	0	23.11	0.2046
					1	2	22.99	0.1991
					1	5	23.02	0.2004
					3	0	23.09	0.2037
					3	1	23.05	0.2018
					3	2	23.03	0.2009
					6	0	23.00	0.1995
		16-QAM	1	0	23.13	0.2056		
			1	2	22.88	0.1941		
			1	5	22.81	0.1910		
			3	0	22.97	0.1982		
			3	1	23.08	0.2032		
			3	2	23.11	0.2046		
			6	0	21.99	0.1581		
	18900	1880.0	QPSK	1	0	23.18	0.2080	
				1	2	23.15	0.2065	
				1	5	23.11	0.2046	
				3	0	23.17	0.2075	
				3	1	23.06	0.2023	
				3	2	23.07	0.2028	
				6	0	23.07	0.2028	
	16-QAM	1	0	23.12	0.2051			
		1	2	23.05	0.2018			
		1	5	22.81	0.1910			
		3	0	22.94	0.1968			
		3	1	23.10	0.2042			
		3	2	23.10	0.2042			
6		0	22.29	0.1694				
19193	1909.3	QPSK	1	0	23.10	0.2042		
			1	2	23.09	0.2037		
			1	5	22.94	0.1968		
			3	0	23.01	0.2000		
			3	1	23.07	0.2028		
			3	2	23.04	0.2014		
			6	0	23.00	0.1995		
			16-QAM	1	0	23.13	0.2055	
	1	2		23.11	0.2046			
	1	5		22.77	0.1892			
	3	0		23.02	0.2004			
	3	1		23.11	0.2046			
	3	2		23.10	0.2042			
	6	0		22.12	0.1629			



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	3MHz	18615	1851.5	QPSK	1	0	23.04	0.2014
					1	7	23.02	0.2004
					1	14	22.95	0.1972
					8	0	22.96	0.1977
					8	4	23.03	0.2009
					8	7	23.00	0.1995
				16-QAM	15	0	22.90	0.1950
					1	0	23.03	0.2009
					1	7	22.70	0.1862
					1	14	23.02	0.2004
					8	0	21.82	0.1521
					8	4	21.90	0.1549
					8	7	21.94	0.1563
					15	0	21.92	0.1556
					18900	1880.0	QPSK	1
		1	7	23.13				0.2056
		1	14	23.23				0.2104
		8	0	23.21				0.2094
		8	4	23.22				0.2099
		8	7	23.14				0.2061
		16-QAM	15	0			23.13	0.2056
			1	0			23.19	0.2084
			1	7			23.07	0.2028
			1	14			23.18	0.2080
			8	0			22.13	0.1633
			8	4			22.08	0.1614
			8	7			22.09	0.1618
			15	0			22.12	0.1629
			19185	1908.5			QPSK	1
		1			7	23.16		0.2070
1	14	23.05			0.2018			
8	0	23.19			0.2084			
8	4	23.02			0.2004			
8	7	22.91			0.1954			
16-QAM	15	0			22.94	0.1968		
	1	0			23.03	0.2009		
	1	7			23.02	0.2004		
	1	14			22.97	0.1982		
	8	0			22.19	0.1656		
	8	4			22.09	0.1618		
	8	7			22.02	0.1592		
	15	0			22.03	0.1596		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	5MHz	18625	1852.5	QPSK	1	0	23.13	0.2056
					1	12	22.99	0.1991
					1	24	22.90	0.1950
					12	0	22.94	0.1968
					12	6	23.01	0.2000
					12	11	22.90	0.1950
		16-QAM	25	0	22.89	0.1945		
			1	0	23.12	0.2051		
			1	12	23.03	0.2009		
			1	24	23.09	0.2037		
			12	0	21.97	0.1574		
			12	6	21.98	0.1578		
		QPSK	12	11	22.16	0.1644		
			25	0	21.93	0.1560		
			1	0	23.18	0.2080		
			1	12	23.16	0.2070		
			1	24	23.01	0.2000		
			12	0	23.05	0.2018		
	16-QAM	12	6	23.12	0.2051			
		12	11	23.09	0.2037			
		25	0	23.04	0.2014			
		1	0	23.14	0.2061			
		1	12	23.00	0.1995			
		1	24	23.04	0.2014			
	QPSK	12	0	22.12	0.1629			
		12	6	22.17	0.1648			
		12	11	22.15	0.1641			
		25	0	22.10	0.1622			
		1	0	23.26	0.2118			
		1	12	23.06	0.2023			
16-QAM	1	24	22.95	0.1972				
	12	0	23.18	0.2080				
	12	6	23.25	0.2113				
	12	11	23.21	0.2094				
	25	0	22.93	0.1963				
	1	0	23.22	0.2099				
QPSK	1	12	23.18	0.2080				
	1	24	23.15	0.2065				
	12	0	22.13	0.1633				
	12	6	22.12	0.1629				
	12	11	21.99	0.1581				
	25	0	21.94	0.1563				



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	10MHz	18650	1855.0	QPSK	1	0	23.26	0.2118
					1	24	23.05	0.2018
					1	49	22.87	0.1936
					25	0	22.82	0.1914
					25	12	22.75	0.1884
					25	24	22.75	0.1884
					50	0	22.76	0.1888
		16-QAM	1	0	22.64	0.1837		
			1	24	22.61	0.1824		
			1	49	22.50	0.1778		
			25	0	21.91	0.1552		
			25	12	21.95	0.1567		
			25	24	21.86	0.1535		
			50	0	21.78	0.1507		
	18900	1880.0	QPSK	1	0	23.23	0.2104	
				1	24	23.16	0.2070	
				1	49	23.11	0.2046	
				25	0	23.02	0.2004	
				25	12	22.98	0.1986	
				25	24	23.04	0.2014	
				50	0	22.91	0.1954	
		16-QAM	1	0	23.23	0.2104		
			1	24	23.09	0.2037		
			1	49	23.20	0.2089		
			25	0	22.05	0.1603		
			25	12	22.02	0.1592		
			25	24	21.96	0.1570		
50			0	21.94	0.1563			
19150	1905.0	QPSK	1	0	23.25	0.2113		
			1	24	23.15	0.2065		
			1	49	23.03	0.2009		
			25	0	23.14	0.2061		
			25	12	22.99	0.1991		
			25	24	23.23	0.2104		
			50	0	22.92	0.1959		
	16-QAM	1	0	23.25	0.2113			
		1	24	23.21	0.2094			
		1	49	23.24	0.2109			
		25	0	22.00	0.1585			
		25	12	22.02	0.1592			
		25	24	22.35	0.1718			
		50	0	21.96	0.1570			



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 2	15MHz	18675	1857.5	QPSK	1	0	23.16	0.2070
					1	37	23.07	0.2028
					1	74	22.94	0.1968
					36	0	22.94	0.1968
					36	19	22.84	0.1923
					36	39	22.82	0.1914
				75	0	22.68	0.1854	
				16-QAM	1	0	23.03	0.2009
					1	37	23.01	0.2000
		1	74		23.00	0.1995		
		36	0		21.88	0.1542		
		36	19		21.75	0.1496		
		36	39		21.72	0.1486		
		75	0	21.71	0.1483			
		18900	1880.0	QPSK	1	0	23.19	0.2084
					1	37	23.16	0.2070
					1	74	23.06	0.2023
					36	0	22.93	0.1963
	36				19	23.01	0.2000	
	36				39	23.03	0.2009	
	75			0	22.93	0.1963		
	16-QAM			1	0	23.17	0.2075	
				1	37	22.97	0.1982	
		1	74	23.16	0.2070			
		36	0	22.05	0.1603			
		36	19	22.03	0.1596			
		36	39	22.01	0.1589			
	75	0	21.93	0.1560				
	19125	1902.5	QPSK	1	0	23.17	0.2075	
				1	37	23.16	0.2070	
				1	74	23.12	0.2051	
				36	0	23.00	0.1995	
				36	19	22.96	0.1977	
				36	39	22.77	0.1892	
				75	0	22.92	0.1959	
				16-QAM	1	0	22.94	0.1968
1					37	22.82	0.1914	
1			74		22.90	0.1950		
36			0		22.01	0.1589		
36			19		21.96	0.1570		
36			39		21.89	0.1545		
75			0		21.86	0.1535		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 2	20MHz	18700	1860.5	QPSK	1	0	23.18	0.2080	
					1	49	22.96	0.1977	
					1	99	23.13	0.2056	
					50	0	22.75	0.1884	
					50	24	22.68	0.1854	
					50	49	22.71	0.1866	
				16-QAM	100	0	22.77	0.1892	
					1	0	23.15	0.2065	
					1	49	22.82	0.1914	
					1	99	22.96	0.1977	
					50	0	21.80	0.1514	
					50	24	21.64	0.1459	
		18900	1880.0	QPSK	1880.0	50	49	21.68	0.1472
						100	0	21.69	0.1476
						1	0	23.19	0.2084
						1	49	23.09	0.2037
						1	99	22.97	0.1982
						50	0	22.96	0.1977
				16-QAM	50	24	22.85	0.1928	
					50	49	22.88	0.1941	
					100	0	22.94	0.1968	
					1	0	23.17	0.2075	
					1	49	23.06	0.2023	
					1	99	22.96	0.1977	
		19100	1900.0	QPSK	1900.0	50	0	21.88	0.1542
						50	24	21.90	0.1549
						50	49	21.89	0.1545
						100	0	21.95	0.1567
						1	0	23.17	0.2075
						1	49	23.09	0.2037
16-QAM	1			99	23.03	0.2009			
	50			0	22.91	0.1954			
	50			24	22.93	0.1963			
	50			49	22.90	0.1950			
	100			0	22.92	0.1959			
	1			0	23.05	0.2018			
16-QAM	1	49	23.03	0.2009					
	1	99	23.02	0.2004					
	50	0	21.95	0.1567					
	50	24	21.97	0.1574					
	50	49	21.85	0.1531					
	100	0	21.92	0.1556					



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 4	1.4MHz	19957	1710.7	QPSK	1	0	24.15	0.2600
					1	2	24.07	0.2553
					1	5	24.00	0.2512
					3	0	24.11	0.2576
					3	1	24.06	0.2547
					3	2	24.01	0.2518
		16-QAM	6	0	24.04	0.2535		
			1	0	24.04	0.2535		
			1	2	23.88	0.2443		
			1	5	23.56	0.2270		
			3	0	24.00	0.2512		
			3	1	24.03	0.2529		
		20175	1732.5	QPSK	1	0	23.95	0.2483
					1	2	23.77	0.2382
					1	5	23.84	0.2421
					3	0	23.88	0.2443
					3	1	23.84	0.2421
					3	2	23.85	0.2427
	16-QAM	6	0	23.82	0.2410			
		1	0	23.91	0.2460			
		1	2	23.88	0.2443			
		1	5	23.90	0.2455			
		3	0	23.90	0.2455			
		3	1	23.89	0.2449			
	20393	1754.3	QPSK	3	2	23.88	0.2443	
				6	0	23.82	0.2410	
				1	0	23.97	0.2495	
				1	2	23.80	0.2399	
				1	5	23.96	0.2489	
				3	0	23.50	0.2239	
	16-QAM	3	1	23.90	0.2455			
		3	2	23.91	0.2460			
		6	0	23.44	0.2208			
		1	0	23.94	0.2477			
		1	2	23.70	0.2344			
		1	5	23.72	0.2355			
3	0	23.78	0.2388					
3	1	23.89	0.2449					
3	2	23.87	0.2438					
6	0	23.77	0.2382					



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 4	3MHz	19965	1711.5	QPSK	1	0	23.98	0.2500	
					1	7	23.92	0.2466	
					1	14	23.88	0.2443	
					8	0	23.90	0.2455	
					8	4	23.88	0.2443	
					8	7	23.95	0.2483	
		16-QAM	15	0	23.89	0.2449			
			1	0	23.97	0.2495			
			1	7	23.81	0.2404			
			1	14	23.81	0.2404			
			8	0	23.96	0.2489			
			8	4	23.91	0.2460			
		20175	1732.5	QPSK	QPSK	8	7	23.87	0.2438
						8	0	23.96	0.2489
						8	4	23.91	0.2460
						8	7	23.87	0.2438
						15	0	23.84	0.2421
						1	0	23.95	0.2483
	16-QAM	1732.5	16-QAM	16-QAM	1	7	23.65	0.2317	
					1	14	23.89	0.2449	
					8	0	23.77	0.2382	
					8	4	23.77	0.2382	
					8	7	23.94	0.2477	
					15	0	23.69	0.2339	
	20385	1753.5	QPSK	QPSK	1	0	23.85	0.2427	
					1	7	23.69	0.2339	
					1	14	23.77	0.2382	
					8	0	23.73	0.2360	
					8	4	23.72	0.2355	
					8	7	23.84	0.2421	
	16-QAM	1753.5	16-QAM	16-QAM	15	0	23.77	0.2382	
					1	0	24.01	0.2518	
					1	7	23.97	0.2495	
					1	14	23.87	0.2438	
					8	0	23.86	0.2432	
					8	4	23.90	0.2455	
16-QAM	1753.5	16-QAM	16-QAM	8	7	23.82	0.2410		
				15	0	23.81	0.2404		
				1	0	23.98	0.2500		
				1	7	23.97	0.2495		
				1	14	23.66	0.2323		
				8	0	23.67	0.2328		
16-QAM	1753.5	16-QAM	16-QAM	8	4	23.67	0.2328		
				8	7	23.66	0.2323		
				15	0	23.72	0.2355		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 4	5MHz	19975	1712.5	QPSK	1	0	24.15	0.2600	
					1	12	24.09	0.2564	
					1	24	23.87	0.2438	
					12	0	24.06	0.2547	
					12	6	24.04	0.2535	
					12	11	24.10	0.2570	
				16-QAM	25	0	23.96	0.2489	
					1	0	24.10	0.2570	
					1	12	23.90	0.2455	
					1	24	24.00	0.2512	
					12	0	23.85	0.2427	
					12	6	23.89	0.2449	
		20175	1732.5	QPSK	1732.5	12	11	23.95	0.2483
						25	0	23.91	0.2460
						1	0	23.96	0.2489
						1	12	23.89	0.2449
						1	24	23.87	0.2438
						12	0	23.78	0.2388
				16-QAM	12	6	23.76	0.2377	
					12	11	23.83	0.2415	
					25	0	23.79	0.2393	
					1	0	23.90	0.2455	
					1	12	23.82	0.2410	
					1	24	23.83	0.2415	
		20375	1752.5	QPSK	1752.5	12	0	23.87	0.2438
						12	6	23.89	0.2449
						12	11	23.88	0.2443
						25	0	23.71	0.2350
						1	0	24.13	0.2588
						1	12	23.89	0.2449
16-QAM	1			24	23.92	0.2466			
	12			0	23.98	0.2500			
	12			6	24.10	0.2570			
	12			11	23.98	0.2500			
	25			0	23.72	0.2355			
	1			0	23.82	0.2410			
16-QAM	1	12	23.80	0.2399					
	1	24	23.68	0.2333					
	12	0	23.71	0.2350					
	12	6	23.73	0.2360					
	12	11	23.75	0.2371					
	25	0	23.77	0.2382					



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 4	10MHz	20000	1715.0	QPSK	1	0	23.98	0.2500
					1	24	23.81	0.2404
					1	49	24.11	0.2576
					25	0	23.90	0.2455
					25	12	23.82	0.2410
					25	24	23.86	0.2432
				16-QAM	50	0	23.72	0.2355
					1	0	23.97	0.2495
					1	24	23.97	0.2495
					1	49	24.01	0.2518
					25	0	23.96	0.2489
					25	12	23.88	0.2443
					25	24	23.84	0.2421
					50	0	23.70	0.2344
		20175	1732.5	QPSK	1	0	23.85	0.2427
					1	24	23.73	0.2360
					1	49	23.74	0.2366
					25	0	23.72	0.2355
					25	12	23.72	0.2355
					25	24	23.49	0.2234
				16-QAM	50	0	23.56	0.2270
					1	0	23.88	0.2443
					1	24	23.86	0.2432
					1	49	23.62	0.2301
					25	0	23.74	0.2366
					25	12	23.69	0.2339
					25	24	23.61	0.2296
					50	0	23.54	0.2259
		20350	1750.5	QPSK	1	0	23.87	0.2438
					1	24	23.74	0.2366
1	49				23.85	0.2427		
25	0				23.69	0.2339		
25	12				23.84	0.2421		
25	24				23.67	0.2328		
16-QAM	50			0	23.66	0.2323		
	1			0	23.83	0.2415		
	1			24	23.72	0.2355		
	1			49	23.51	0.2244		
	25			0	23.66	0.2323		
	25			12	23.57	0.2275		
	25			24	23.64	0.2312		
	50			0	23.51	0.2244		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 4	15MHz	20025	1717.5	QPSK	1	0	24.11	0.2576
					1	37	24.05	0.2541
					1	74	23.93	0.2472
					38	0	23.87	0.2438
					38	18	23.85	0.2427
					38	37	23.92	0.2466
					75	0	23.88	0.2443
				16-QAM	1	0	24.08	0.2559
					1	37	23.82	0.2410
					1	74	24.05	0.2541
					38	0	23.03	0.2009
					38	18	23.00	0.1995
					38	37	22.96	0.1977
					75	0	23.76	0.2377
		20175	1732.5	QPSK	1	0	24.16	0.2606
					1	37	23.90	0.2455
					1	74	23.87	0.2438
					38	0	23.81	0.2404
					38	18	23.76	0.2377
					38	37	23.79	0.2393
					75	0	23.57	0.2275
				16-QAM	1	0	24.17	0.2612
					1	37	23.75	0.2371
					1	74	23.66	0.2323
					38	0	23.28	0.2128
					38	18	23.06	0.2023
					38	37	23.02	0.2004
					75	0	23.60	0.2291
		20325	1747.5	QPSK	1	0	24.07	0.2553
					1	37	24.03	0.2529
1	74				23.87	0.2438		
38	0				23.83	0.2415		
38	18				23.40	0.2188		
38	37				23.96	0.2489		
75	0				23.77	0.2382		
16-QAM	1			0	23.65	0.2317		
	1			37	23.64	0.2312		
	1			74	23.53	0.2254		
	38			0	22.89	0.1945		
	38			18	22.88	0.1941		
	38			37	22.90	0.1950		
	75			0	23.52	0.2249		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 4	20MHz	20050	1720.0	QPSK	1	0	24.06	0.2547	
					1	49	23.84	0.2421	
					1	99	23.84	0.2421	
					50	0	23.65	0.2317	
					50	24	23.62	0.2301	
					50	49	23.64	0.2312	
		16-QAM	100	0	23.75	0.2371			
			1	0	24.16	0.2606			
			1	49	24.14	0.2594			
			1	99	23.48	0.2228			
			50	0	23.75	0.2371			
			50	24	23.65	0.2317			
		20175	1732.5	QPSK	1732.5	1	0	24.17	0.2612
						1	49	23.96	0.2489
						1	99	23.88	0.2443
						50	0	23.67	0.2328
						50	24	23.57	0.2275
						50	49	23.62	0.2301
	16-QAM	100	0	23.97	0.2495				
		1	0	24.15	0.2600				
		1	49	23.84	0.2421				
		1	99	23.73	0.2360				
		50	0	23.63	0.2307				
		50	24	23.54	0.2259				
	20300	1745.0	QPSK	1745.0	50	49	23.68	0.2333	
					50	0	23.54	0.2259	
					100	0	23.54	0.2259	
					1	0	23.72	0.2355	
					1	49	23.59	0.2286	
					1	99	23.59	0.2286	
	16-QAM	50	0	23.63	0.2307				
		50	24	23.15	0.2065				
		50	49	23.51	0.2244				
		100	0	23.54	0.2259				
		1	0	23.78	0.2388				
		1	49	23.74	0.2366				
					1	99	23.37	0.2173	
					50	0	23.51	0.2244	
					50	24	23.42	0.2198	
					50	49	23.43	0.2203	
					100	0	23.43	0.2203	



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 5	1.4MHz	20407	824.7	QPSK	1	0	23.78	0.2388	
					1	2	23.71	0.2350	
					1	5	23.72	0.2355	
					3	0	23.66	0.2323	
					3	1	23.67	0.2328	
					3	2	23.70	0.2344	
				16-QAM	6	0	23.75	0.2371	
					1	0	23.77	0.2382	
					1	2	23.47	0.2223	
					1	5	23.67	0.2328	
					3	0	23.66	0.2323	
					3	1	23.64	0.2312	
		20525	836.5	QPSK	836.5	3	2	23.76	0.2377
						6	0	22.61	0.1824
						1	0	23.54	0.2259
						1	2	23.44	0.2208
						1	5	23.40	0.2188
						3	0	23.48	0.2228
				16-QAM	3	1	23.51	0.2244	
					3	2	23.41	0.2193	
					6	0	23.45	0.2213	
					1	0	23.47	0.2223	
					1	2	23.12	0.2051	
					1	5	23.41	0.2193	
		20643	848.3	QPSK	848.3	3	0	23.24	0.2109
						3	1	23.39	0.2183
						3	2	23.38	0.2178
						6	0	22.56	0.1803
						1	0	23.38	0.2178
						1	2	23.37	0.2173
16-QAM	1			5	23.21	0.2094			
	3			0	23.31	0.2143			
	3			1	23.32	0.2148			
	3			2	23.24	0.2109			
	6			0	23.25	0.2113			
	1			0	23.37	0.2173			
16-QAM	1	2	23.29	0.2133					
	1	5	23.25	0.2113					
	3	0	23.32	0.2148					
	3	1	23.35	0.2163					
	3	2	23.24	0.2109					
	6	0	22.17	0.1648					



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 5	3MHz	20415	825.5	QPSK	1	0	23.72	0.2355	
					1	7	23.64	0.2312	
					1	14	23.63	0.2307	
					8	0	23.62	0.2301	
					8	4	23.56	0.2270	
					8	7	23.62	0.2301	
				16-QAM	15	0	23.62	0.2301	
					1	0	23.70	0.2344	
					1	7	23.54	0.2259	
					1	14	23.69	0.2339	
					8	0	22.56	0.1803	
					8	4	22.41	0.1742	
		20525	836.5	QPSK	8	8	7	22.59	0.1816
						8	7	22.59	0.1816
						15	0	22.36	0.1722
						1	0	23.57	0.2275
						1	7	23.43	0.2203
						1	14	23.48	0.2228
				16-QAM	8	0	23.52	0.2249	
					8	4	23.42	0.2198	
					8	7	23.41	0.2193	
					15	0	23.46	0.2218	
					1	0	23.44	0.2208	
					1	7	23.35	0.2163	
		20635	847.5	QPSK	8	1	14	23.36	0.2168
						8	0	22.47	0.1766
						8	4	22.31	0.1702
						8	7	22.30	0.1698
						15	0	22.48	0.1770
						1	0	23.50	0.2239
16-QAM	1			7	23.19	0.2084			
	1			14	23.21	0.2094			
	8			0	23.17	0.2075			
	8			4	23.36	0.2168			
	8			7	23.25	0.2113			
	15			0	23.26	0.2118			
16-QAM	1	0	23.40	0.2188					
	1	7	23.34	0.2158					
	1	14	23.10	0.2042					
	8	0	22.16	0.1644					
	8	4	22.22	0.1667					
	8	7	22.21	0.1663					
					15	0	22.18	0.1652	



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 5	5MHz	20425	826.5	QPSK	1	0	23.74	0.2366	
					1	12	23.66	0.2323	
					1	24	23.67	0.2328	
					12	0	23.69	0.2339	
					12	6	23.71	0.2350	
					12	11	23.61	0.2296	
				16-QAM	25	0	23.61	0.2296	
					1	0	23.71	0.2350	
					1	12	23.68	0.2333	
					1	24	23.48	0.2228	
					12	0	22.58	0.1811	
					12	6	22.63	0.1832	
		20525	836.5	QPSK	836.5	12	11	22.67	0.1849
						25	0	22.42	0.1746
						1	0	23.62	0.2301
						1	12	23.33	0.2153
						1	24	23.61	0.2296
						12	0	23.52	0.2249
				16-QAM	12	6	23.48	0.2228	
					12	11	23.48	0.2228	
					25	0	23.39	0.2183	
					1	0	23.60	0.2291	
					1	12	23.53	0.2254	
					1	24	23.56	0.2270	
		20625	846.5	QPSK	846.5	12	0	22.52	0.1786
						12	6	22.58	0.1811
						12	11	22.54	0.1795
						25	0	22.32	0.1706
						1	0	23.36	0.2168
						1	12	23.34	0.2158
16-QAM	1			24	23.13	0.2056			
	12			0	23.26	0.2118			
	12			6	23.22	0.2099			
	12			11	23.29	0.2133			
	25			0	23.04	0.2014			
	1			0	23.27	0.2123			
16-QAM	1	12	23.06	0.2023					
	1	24	23.26	0.2118					
	12	0	22.32	0.1706					
	12	6	22.20	0.1660					
	12	11	22.30	0.1698					
	25	0	22.03	0.1596					



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)	
					RB Size	RB Offset			
LTE Band 5	10MHz	20450	829.0	QPSK	1	0	23.63	0.2307	
					1	24	23.54	0.2259	
					1	49	23.57	0.2275	
					25	0	23.52	0.2249	
					25	12	23.50	0.2239	
					25	24	23.51	0.2244	
				16-QAM	50	0	23.40	0.2188	
					1	0	23.49	0.2234	
					1	24	23.48	0.2228	
					1	49	23.45	0.2213	
					25	0	22.63	0.1832	
					25	12	22.59	0.1816	
		20525	836.5	QPSK	836.5	1	0	23.64	0.2312
						1	24	23.44	0.2208
						1	49	23.52	0.2249
						25	0	23.57	0.2275
						25	12	23.51	0.2244
						25	24	23.41	0.2193
				16-QAM	50	0	23.42	0.2198	
					1	0	23.50	0.2239	
					1	24	23.44	0.2208	
					1	49	23.45	0.2213	
					25	0	22.42	0.1746	
					25	12	22.40	0.1738	
		20600	844.0	QPSK	844.0	1	0	23.60	0.2291
						1	24	23.33	0.2153
						1	49	23.55	0.2265
						25	0	23.36	0.2168
						25	12	23.25	0.2113
						25	24	23.04	0.2014
16-QAM	50			0	23.18	0.2080			
	1			0	23.44	0.2208			
	1			24	23.43	0.2203			
	1			49	23.04	0.2014			
	25			0	22.41	0.1742			
	25			12	22.19	0.1656			
				25	24	22.06	0.1607		
				50	0	22.09	0.1618		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 17	5MHz	23755	706.5	QPSK	1	0	24.02	0.2523
					1	12	23.59	0.2286
					1	24	24.06	0.2547
					12	0	23.36	0.2168
					12	6	23.27	0.2123
					12	11	23.69	0.2339
					25	0	23.76	0.2377
				16-QAM	1	0	23.55	0.2265
					1	12	23.85	0.2427
					1	24	23.87	0.2438
					12	0	22.80	0.1905
					12	6	22.79	0.1901
					12	11	22.63	0.1832
					25	0	22.12	0.1629
		23790	710.0	QPSK	1	0	23.52	0.2249
					1	12	23.65	0.2317
					1	24	23.71	0.2350
					12	0	23.64	0.2312
					12	6	23.62	0.2301
					12	11	23.31	0.2143
					25	0	23.15	0.2065
				16-QAM	1	0	23.50	0.2239
					1	12	23.42	0.2198
					1	24	23.51	0.2244
					12	0	22.60	0.1820
					12	6	22.80	0.1905
					12	11	22.39	0.1734
					25	0	22.25	0.1679
		23825	713.5	QPSK	1	0	23.31	0.2143
					1	12	23.41	0.2193
1	24				23.76	0.2377		
12	0				23.40	0.2188		
12	6				23.37	0.2173		
12	11				23.74	0.2366		
25	0				23.12	0.2051		
16-QAM	1			0	23.10	0.2042		
	1			12	23.29	0.2133		
	1			24	23.54	0.2259		
	12			0	22.40	0.1738		
	12			6	22.44	0.1754		
	12			11	22.06	0.1607		
	25			0	22.14	0.1637		



Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)		
					RB Size	RB Offset				
LTE Band 17	10MHz	23780	709.0	QPSK	1	0	23.62	0.2301		
					1	24	23.86	0.2432		
					1	49	23.94	0.2477		
					25	0	23.26	0.2118		
					25	12	23.30	0.2138		
					25	24	23.50	0.2239		
				16-QAM	50	0	23.26	0.2118		
					1	0	23.33	0.2153		
					1	24	23.38	0.2178		
					1	49	23.62	0.2301		
					25	0	22.24	0.1675		
					25	12	22.61	0.1824		
				23790	710.0	QPSK	25	24	22.49	0.1774
								24	22.31	0.1702
		50	0					22.31	0.1702	
		1	0					23.73	0.2360	
		1	24					23.63	0.2307	
		1	49					24.03	0.2529	
		16-QAM	25			0	23.67	0.2328		
			25			12	23.25	0.2113		
			25			24	23.47	0.2223		
			50			0	23.29	0.2133		
			1			0	23.40	0.2188		
			1			24	23.42	0.2198		
		23800	711.0			QPSK	25	49	23.75	0.2371
								0	22.68	0.1854
				12	22.27			0.1687		
				24	22.45			0.1758		
				0	22.22			0.1667		
				1	0			23.63	0.2307	
16-QAM	1			24	23.48	0.2228				
	1			49	23.69	0.2339				
	25			0	23.00	0.1995				
	25			12	23.31	0.2143				
	25			24	23.32	0.2148				
	50			0	23.15	0.2065				
16-QAM	1			0	23.13	0.2056				
	1			24	23.46	0.2218				
	1	49	23.50	0.2239						
	25	0	22.65	0.1841						
	25	12	22.28	0.1690						
	25	24	22.41	0.1742						
	50	0	22.19	0.1656						

3.1.6 Test Result of ERP/EIRP

LTE Band 2 Radiated Power EIRP								
LTE BAND	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
2	1.4	QPSK	1	0	1850.7	23.58	0.2280	H
2	1.4	QPSK	1	0	1880	24.21	0.2636	H
2	1.4	QPSK	1	0	1909.3	25.26	0.3357	H
2	1.4	QPSK	1	0	1850.7	22.79	0.1901	V
2	1.4	QPSK	1	0	1880	23.36	0.2168	V
2	1.4	QPSK	1	0	1909.3	23.96	0.2489	V
2	1.4	16QAM	1	0	1850.7	23.52	0.2249	H
2	1.4	16QAM	1	0	1880	24.08	0.2559	H
2	1.4	16QAM	1	0	1909.3	25.23	0.3334	H
2	1.4	16QAM	1	0	1850.7	22.64	0.1837	V
2	1.4	16QAM	1	0	1880	23.12	0.2051	V
2	1.4	16QAM	1	0	1909.3	24.18	0.2618	V
2	3	QPSK	1	0	1851.5	23.5	0.2239	H
2	3	QPSK	1	0	1880	24.12	0.2582	H
2	3	QPSK	1	0	1908.5	25.26	0.3357	H
2	3	QPSK	1	0	1851.5	22.95	0.1972	V
2	3	QPSK	1	0	1880	23.33	0.2153	V
2	3	QPSK	1	0	1908.5	23.96	0.2489	V
2	3	16QAM	1	0	1851.5	23.66	0.2323	H
2	3	16QAM	1	0	1880	24.44	0.2780	H
2	3	16QAM	1	0	1908.5	25.09	0.3228	H
2	3	16QAM	1	0	1851.5	22.69	0.1858	V
2	3	16QAM	1	0	1880	23.47	0.2223	V
2	3	16QAM	1	0	1908.5	23.76	0.2377	V



LTE Band 2 Radiated Power EIRP								
LTE BAND	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
2	5	QPSK	1	0	1852.5	23.65	0.2317	H
2	5	QPSK	1	0	1880	24.25	0.2661	H
2	5	QPSK	1	0	1907.5	25.1	0.3236	H
2	5	QPSK	1	0	1852.5	20.07	0.1016	V
2	5	QPSK	1	0	1880	23.31	0.2143	V
2	5	QPSK	1	0	1907.5	23.88	0.2443	V
2	5	16QAM	1	0	1852.5	23.77	0.2382	H
2	5	16QAM	1	0	1880	24.18	0.2618	H
2	5	16QAM	1	0	1907.5	25.03	0.3184	H
2	5	16QAM	1	0	1852.5	23.04	0.2014	V
2	5	16QAM	1	0	1880	23.42	0.2198	V
2	5	16QAM	1	0	1907.5	23.79	0.2393	V
2	10	QPSK	1	0	1855	23.49	0.2234	H
2	10	QPSK	1	0	1880	24.04	0.2535	H
2	10	QPSK	1	0	1905	25.08	0.3221	H
2	10	QPSK	1	0	1855	22.96	0.1977	V
2	10	QPSK	1	0	1880	23.34	0.2158	V
2	10	QPSK	1	0	1905	23.83	0.2415	V
2	10	16QAM	1	0	1855	23.75	0.2371	H
2	10	16QAM	1	0	1880	24.55	0.2851	H
2	10	16QAM	1	0	1905	25.34	0.3420	H
2	10	16QAM	1	0	1855	22.55	0.1799	V
2	10	16QAM	1	0	1880	23.97	0.2495	V
2	10	16QAM	1	0	1905	24.42	0.2767	V



LTE Band 2 Radiated Power EIRP								
LTE BAND	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
2	15	QPSK	1	0	1857.5	23.78	0.2388	H
2	15	QPSK	1	0	1880	24.69	0.2944	H
2	15	QPSK	1	0	1902.5	25	0.3162	H
2	15	QPSK	1	0	1857.5	22.66	0.1845	V
2	15	QPSK	1	0	1880	23.11	0.2046	V
2	15	QPSK	1	0	1902.5	24.47	0.2799	V
2	15	16QAM	1	0	1857.5	23.73	0.2360	H
2	15	16QAM	1	0	1880	23.85	0.2427	H
2	15	16QAM	1	0	1902.5	25.1	0.3236	H
2	15	16QAM	1	0	1857.5	23.05	0.2018	V
2	15	16QAM	1	0	1880	23.24	0.2109	V
2	15	16QAM	1	0	1902.5	24.33	0.2710	V
2	20	QPSK	1	0	1860	23.74	0.2366	H
2	20	QPSK	1	0	1880	23.76	0.2377	H
2	20	QPSK	1	0	1900	25.16	0.3281	H
2	20	QPSK	1	0	1860	23.21	0.2094	V
2	20	QPSK	1	0	1880	22.77	0.1892	V
2	20	QPSK	1	0	1900	23.7	0.2344	V
2	20	16QAM	1	0	1860	24.11	0.2576	H
2	20	16QAM	1	0	1880	23.85	0.2427	H
2	20	16QAM	1	0	1900	25.36	0.3436	H
2	20	16QAM	1	0	1860	23.06	0.2023	V
2	20	16QAM	1	0	1880	22.78	0.1897	V
2	20	16QAM	1	0	1900	24.09	0.2564	V



LTE Band 4 Radiated Power EIRP								
LTE BAND	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
4	1.4	QPSK	1	0	1710.7	22.63	0.1832	H
4	1.4	QPSK	1	0	1732.5	21.65	0.1462	H
4	1.4	QPSK	1	0	1754.3	21.63	0.1455	H
4	1.4	QPSK	1	0	1710.7	24.72	0.2965	V
4	1.4	QPSK	1	0	1732.5	24.32	0.2704	V
4	1.4	QPSK	1	0	1754.3	24.40	0.2754	V
4	1.4	16QAM	1	0	1710.7	22.49	0.1774	H
4	1.4	16QAM	1	0	1732.5	21.65	0.1462	H
4	1.4	16QAM	1	0	1754.3	21.59	0.1442	H
4	1.4	16QAM	1	0	1710.7	24.56	0.2858	V
4	1.4	16QAM	1	0	1732.5	24.06	0.2547	V
4	1.4	16QAM	1	0	1754.3	24.16	0.2606	V
4	3	QPSK	1	0	1711.5	22.65	0.1841	H
4	3	QPSK	1	0	1732.5	21.51	0.1416	H
4	3	QPSK	1	0	1753.5	22.56	0.1803	H
4	3	QPSK	1	0	1711.5	24.93	0.3112	V
4	3	QPSK	1	0	1732.5	24.24	0.2655	V
4	3	QPSK	1	0	1753.5	24.15	0.2600	V
4	3	16QAM	1	0	1711.5	22.46	0.1762	H
4	3	16QAM	1	0	1732.5	21.56	0.1432	H
4	3	16QAM	1	0	1753.5	22.12	0.1629	H
4	3	16QAM	1	0	1711.5	24.83	0.3041	V
4	3	16QAM	1	0	1732.5	24.11	0.2576	V
4	3	16QAM	1	0	1753.5	24.10	0.2570	V



LTE Band 4 Radiated Power EIRP								
LTE BAND	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
4	5	QPSK	1	0	1712.5	22.76	0.1888	H
4	5	QPSK	1	0	1732.5	21.54	0.1426	H
4	5	QPSK	1	0	1752.5	21.66	0.1466	H
4	5	QPSK	1	0	1712.5	24.62	0.2897	V
4	5	QPSK	1	0	1732.5	24.16	0.2606	V
4	5	QPSK	1	0	1752.5	24.41	0.2761	V
4	5	16QAM	1	0	1712.5	22.66	0.1845	H
4	5	16QAM	1	0	1732.5	21.40	0.1380	H
4	5	16QAM	1	0	1752.5	21.71	0.1483	H
4	5	16QAM	1	0	1712.5	24.94	0.3119	V
4	5	16QAM	1	0	1732.5	24.15	0.2600	V
4	5	16QAM	1	0	1752.5	24.32	0.2704	V
4	10	QPSK	1	49	1715	22.39	0.1734	H
4	10	QPSK	1	0	1732.5	21.40	0.1380	H
4	10	QPSK	1	0	1750	22.10	0.1622	H
4	10	QPSK	1	49	1715	24.75	0.2985	V
4	10	QPSK	1	0	1732.5	23.93	0.2472	V
4	10	QPSK	1	0	1750	24.78	0.3006	V
4	10	16QAM	1	49	1715	22.10	0.1622	H
4	10	16QAM	1	0	1732.5	21.58	0.1439	H
4	10	16QAM	1	0	1750	21.86	0.1535	H
4	10	16QAM	1	49	1715	24.65	0.2917	V
4	10	16QAM	1	0	1732.5	24.03	0.2529	V
4	10	16QAM	1	0	1750	24.56	0.2858	V



LTE Band 4 Radiated Power EIRP								
LTE BAND	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset				
4	15	QPSK	1	0	1717.5	22.65	0.1841	H
4	15	QPSK	1	0	1732.5	21.82	0.1521	H
4	15	QPSK	1	0	1747.5	21.73	0.1489	H
4	15	QPSK	1	0	1717.5	24.84	0.3048	V
4	15	QPSK	1	0	1732.5	24.53	0.2838	V
4	15	QPSK	1	0	1747.5	24.60	0.2884	V
4	15	16QAM	1	0	1717.5	23.25	0.2113	H
4	15	16QAM	1	0	1732.5	21.80	0.1514	H
4	15	16QAM	1	0	1747.5	23.26	0.2118	H
4	15	16QAM	1	0	1717.5	25.32	0.3404	V
4	15	16QAM	1	0	1732.5	23.98	0.2500	V
4	15	16QAM	1	0	1747.5	26.01	0.3990	V
4	20	QPSK	1	0	1720	23.25	0.2113	H
4	20	QPSK	1	0	1732.5	22.70	0.1862	H
4	20	QPSK	1	0	1745	22.57	0.1807	H
4	20	QPSK	1	0	1720	24.96	0.3133	V
4	20	QPSK	1	0	1732.5	24.49	0.2812	V
4	20	QPSK	1	0	1745	24.75	0.2985	V
4	20	16QAM	1	0	1720	22.08	0.1614	H
4	20	16QAM	1	0	1732.5	23.64	0.2312	H
4	20	16QAM	1	0	1745	22.72	0.1871	H
4	20	16QAM	1	0	1720	25.16	0.3281	V
4	20	16QAM	1	0	1732.5	25.01	0.3170	V
4	20	16QAM	1	0	1745	25.11	0.3243	V



LTE Band 5 Radiated Power ERP								
LTE BAND	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
5	1.4	QPSK	1	0	824.7	5.17	0.0033	H
5	1.4	QPSK	1	0	836.5	6.77	0.0048	H
5	1.4	QPSK	1	0	848.3	6.69	0.0047	H
5	1.4	QPSK	1	0	824.7	19.77	0.0948	V
5	1.4	QPSK	1	0	836.5	18.49	0.0706	V
5	1.4	QPSK	1	0	848.3	18.12	0.0649	V
5	1.4	16QAM	1	0	824.7	5.17	0.0033	H
5	1.4	16QAM	1	0	836.5	6.93	0.0049	H
5	1.4	16QAM	1	0	848.3	7.06	0.0051	H
5	1.4	16QAM	1	0	824.7	19.77	0.0948	V
5	1.4	16QAM	1	0	836.5	18.51	0.0710	V
5	1.4	16QAM	1	0	848.3	17.78	0.0600	V
5	3	QPSK	1	0	825.5	6.21	0.0042	H
5	3	QPSK	1	0	836.5	6.84	0.0048	H
5	3	QPSK	1	0	847.5	7.63	0.0058	H
5	3	QPSK	1	0	825.5	19.67	0.0927	V
5	3	QPSK	1	0	836.5	18.68	0.0738	V
5	3	QPSK	1	0	847.5	18.29	0.0675	V
5	3	16QAM	1	0	825.5	5.41	0.0035	H
5	3	16QAM	1	0	836.5	7.1	0.0051	H
5	3	16QAM	1	0	847.5	7.66	0.0058	H
5	3	16QAM	1	0	825.5	19.9	0.0977	V
5	3	16QAM	1	0	836.5	18.67	0.0736	V
5	3	16QAM	1	0	847.5	18.36	0.0685	V



LTE Band 5 Radiated Power ERP								
LTE BAND	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
5	5	QPSK	1	0	826.5	5.97	0.0040	H
5	5	QPSK	1	0	836.5	6.94	0.0049	H
5	5	QPSK	1	0	846.5	8.12	0.0065	H
5	5	QPSK	1	0	826.5	19.62	0.0916	V
5	5	QPSK	1	0	836.5	18.82	0.0762	V
5	5	QPSK	1	0	846.5	18.92	0.0780	V
5	5	16QAM	1	0	826.5	6.22	0.0042	H
5	5	16QAM	1	0	836.5	7.33	0.0054	H
5	5	16QAM	1	0	846.5	8.1	0.0065	H
5	5	16QAM	1	0	826.5	19.74	0.0942	V
5	5	16QAM	1	0	836.5	19.1	0.0813	V
5	5	16QAM	1	0	846.5	18.9	0.0776	V
5	10	QPSK	1	0	829	6.24	0.0042	H
5	10	QPSK	1	0	836.5	6.91	0.0049	H
5	10	QPSK	1	0	844	7.23	0.0053	H
5	10	QPSK	1	0	829	20.29	0.1069	V
5	10	QPSK	1	0	836.5	19.68	0.0929	V
5	10	QPSK	1	0	844	18.65	0.0733	V
5	10	16QAM	1	0	829	5.92	0.0039	H
5	10	16QAM	1	0	836.5	7.56	0.0057	H
5	10	16QAM	1	0	844	7.59	0.0057	H
5	10	16QAM	1	0	829	20.21	0.1050	V
5	10	16QAM	1	0	836.5	19.09	0.0811	V
5	10	16QAM	1	0	844	18.48	0.0705	V



LTE Band 17 Radiated Power ERP								
LTE BAND	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	ERP (W)	H/V
			RB Size	RB Offset				
17	5	QPSK	1	24	706.5	0.79	0.0012	H
17	5	QPSK	1	24	710	-1.89	0.0006	H
17	5	QPSK	1	24	713.5	-2.25	0.0006	H
17	5	QPSK	1	24	706.5	19.78	0.0951	V
17	5	QPSK	1	24	710	18.43	0.0697	V
17	5	QPSK	1	24	713.5	18.59	0.0723	V
17	5	16QAM	1	24	706.5	0.31	0.0011	H
17	5	16QAM	1	24	710	-2.18	0.0006	H
17	5	16QAM	1	24	713.5	-2.7	0.0005	H
17	5	16QAM	1	24	706.5	19.85	0.0966	V
17	5	16QAM	1	24	710	18.45	0.0700	V
17	5	16QAM	1	24	713.5	18.74	0.0748	V
17	10	QPSK	1	49	709	0.56	0.0011	H
17	10	QPSK	1	49	710	-0.92	0.0008	H
17	10	QPSK	1	49	711	-1.72	0.0007	H
17	10	QPSK	1	49	709	20.32	0.1076	V
17	10	QPSK	1	49	710	19.17	0.0826	V
17	10	QPSK	1	49	711	18.26	0.0670	V
17	10	16QAM	1	49	709	0.35	0.0011	H
17	10	16QAM	1	49	710	-0.13	0.0010	H
17	10	16QAM	1	49	711	-1.98	0.0006	H
17	10	16QAM	1	49	709	19.93	0.0984	V
17	10	16QAM	1	49	710	19.5	0.0891	V
17	10	16QAM	1	49	711	18.5	0.0708	V

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. The following guidelines are offered for performing a CCDF measurement.

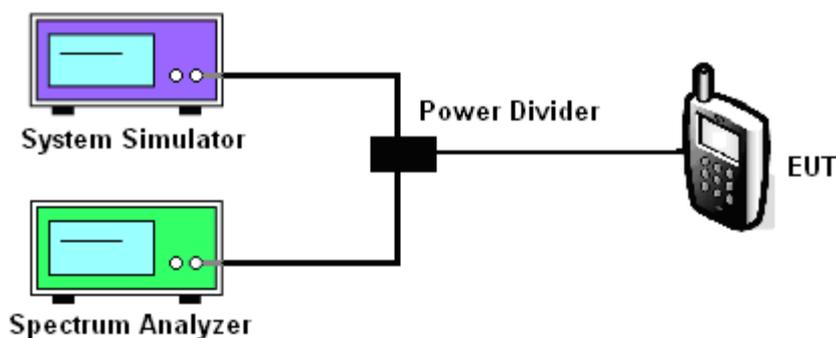
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The CCDF (Complementary Cumulative Distribution Function) of the middle channel for the highest RF powers were measured.

3.2.4 Test Setup



3.2.5 Test Result of Peak-to-Average Ratio

Band	Band Width	Channel	Frequency (MHz)	Modulation	PAR (dB)
LTE Band 2	1.4MHz	18900	1880	QPSK	5.12
				16-QAM	5.80
	3MHz	18900	1880	QPSK	5.08
				16-QAM	5.96
	5MHz	18900	1880	QPSK	5.28
				16-QAM	5.96
	10MHz	18900	1880	QPSK	5.40
				16-QAM	6.12
	15MHz	18900	1880	QPSK	5.84
				16-QAM	6.76
	20MHz	18900	1880	QPSK	6.56
				16-QAM	7.12
LTE Band 4	1.4MHz	20175	1732.5	QPSK	4.32
				16-QAM	4.44
	3MHz	20175	1732.5	QPSK	4.44
				16-QAM	4.56
	5MHz	20175	1732.5	QPSK	4.88
				16-QAM	5.00
	10MHz	20175	1732.5	QPSK	5.16
				16-QAM	5.76
	15MHz	20175	1732.5	QPSK	5.76
				16-QAM	6.76
	20MHz	20175	1732.5	QPSK	6.48
				16-QAM	7.08



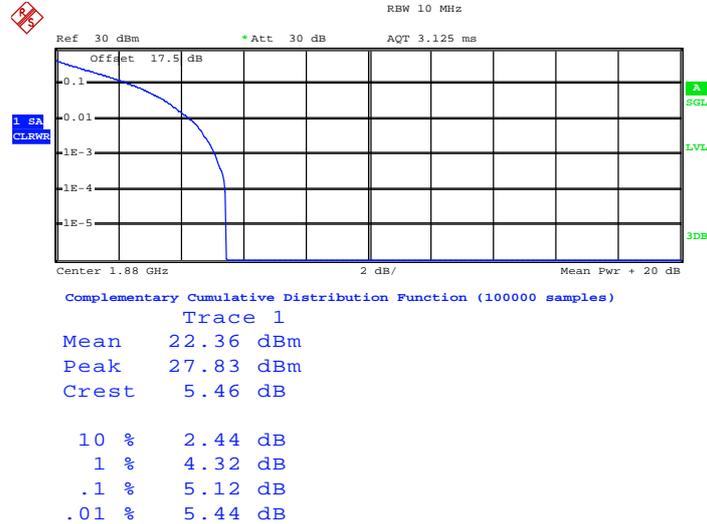
LTE Band 5	1.4MHz	20525	836.5	QPSK	5.24
				16-QAM	5.92
	3MHz	20525	836.5	QPSK	5.28
				16-QAM	6.00
	5MHz	20525	836.5	QPSK	5.40
				16-QAM	6.04
10MHz	20525	836.5	QPSK	5.32	
			16-QAM	6.04	
LTE Band 17	5MHz	23790	710.0	QPSK	4.52
				16-QAM	5.20
	10MHz	23790	710.0	QPSK	5.16
				16-QAM	6.00



3.2.6 Peak to Average Power Ratio

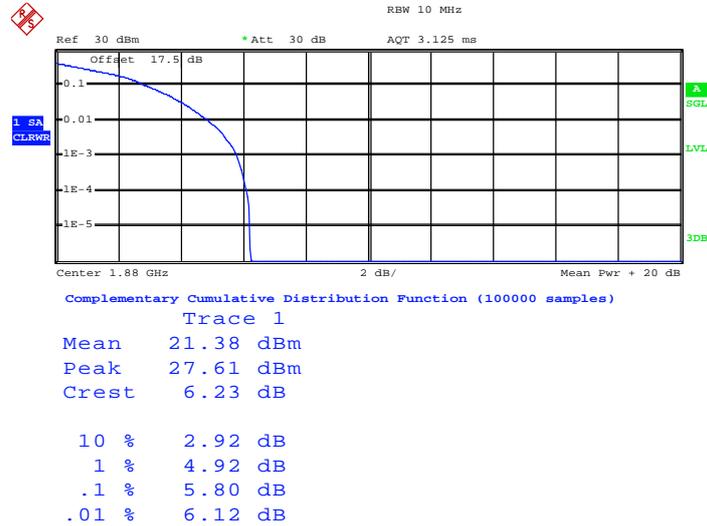
Band:	LTE Band 2	Bandwidth:	1.4MHz
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Peak-to-Average Ratio for QPSK-RB Size 6, RB Offset 0



Date: 25.FEB.2013 15:45:38

Peak-to-Average Ratio for 16QAM-RB Size 6, RB Offset 0

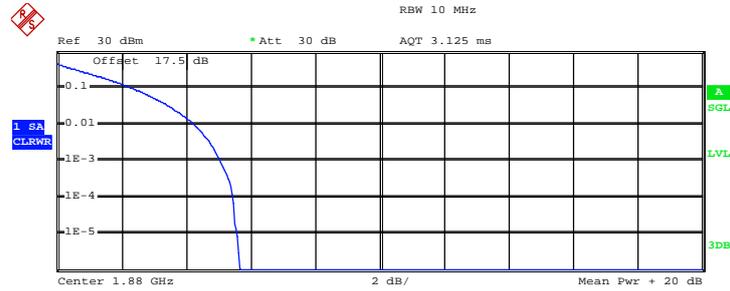


Date: 25.FEB.2013 15:45:56

Band:	LTE Band 2	Bandwidth:	3MHz
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Peak-to-Average Ratio for QPSK-RB Size 15, RB Offset 0



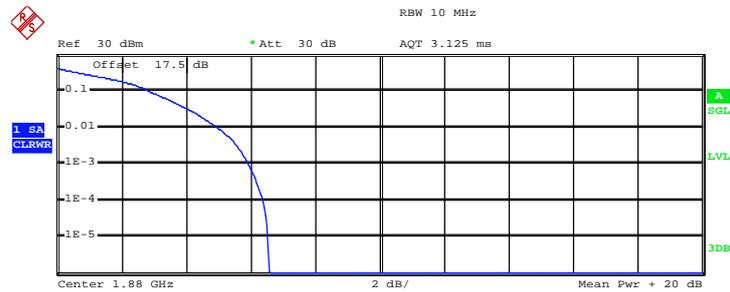
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 22.32 dBm
 Peak 27.97 dBm
 Crest 5.65 dB

10 % 2.40 dB
 1 % 4.24 dB
 .1 % 5.08 dB
 .01 % 5.44 dB

Date: 25.FEB.2013 15:47:23

Peak-to-Average Ratio for 16QAM-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 21.34 dBm
 Peak 27.90 dBm
 Crest 6.56 dB

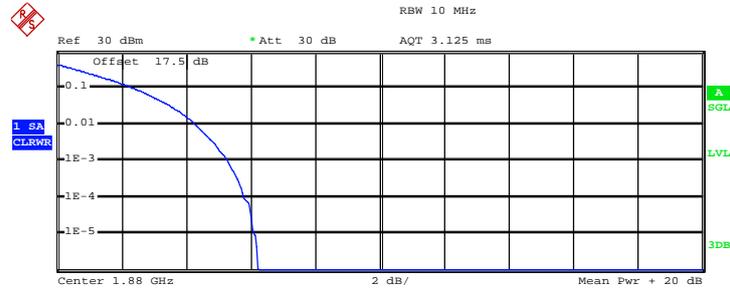
10 % 2.92 dB
 1 % 5.00 dB
 .1 % 5.96 dB
 .01 % 6.40 dB

Date: 25.FEB.2013 15:47:06



Band:	LTE Band 2	Bandwidth:	5MHz
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Peak-to-Average Ratio for QPSK-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 22.10 dBm
 Peak 28.32 dBm
 Crest 6.22 dB

10 % 2.44 dB
 1 % 4.32 dB
 .1 % 5.28 dB
 .01 % 5.80 dB

Date: 25.FEB.2013 15:48:27

Peak-to-Average Ratio for 16QAM-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.19 dBm
 Peak 27.83 dBm
 Crest 6.63 dB

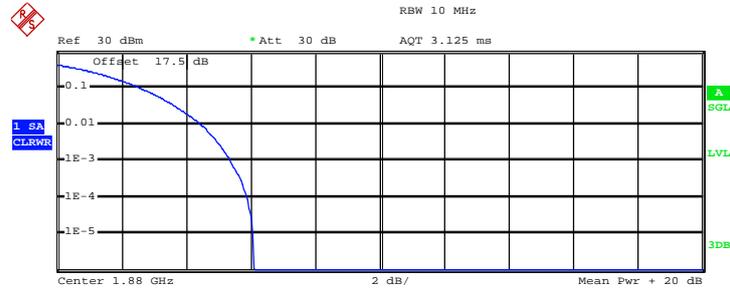
10 % 2.96 dB
 1 % 4.92 dB
 .1 % 5.96 dB
 .01 % 6.44 dB

Date: 25.FEB.2013 15:48:46



Band:	LTE Band 2	Bandwidth:	10MHz
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Peak-to-Average Ratio for QPSK-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

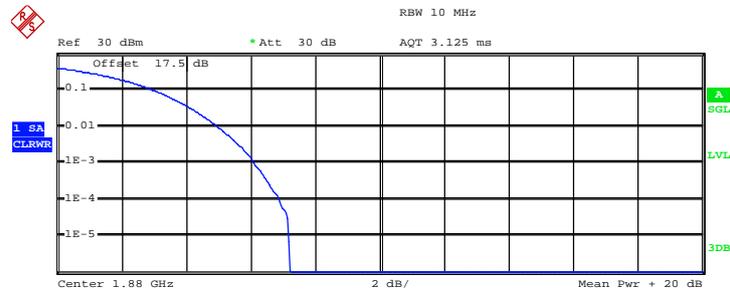
Trace 1

Mean 21.73 dBm
 Peak 27.83 dBm
 Crest 6.09 dB

10 % 2.64 dB
 1 % 4.48 dB
 .1 % 5.40 dB
 .01 % 5.92 dB

Date: 25.FEB.2013 15:49:41

Peak-to-Average Ratio for 16QAM-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.84 dBm
 Peak 28.04 dBm
 Crest 7.20 dB

10 % 3.08 dB
 1 % 5.00 dB
 .1 % 6.12 dB
 .01 % 6.92 dB

Date: 25.FEB.2013 15:49:21



Band:	LTE Band 2	Bandwidth:	15MHz
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Peak-to-Average Ratio for QPSK-RB Size 75, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.51 dBm
 Peak 27.12 dBm
 Crest 6.61 dB

10 % 3.08 dB
 1 % 4.96 dB
 .1 % 5.84 dB
 .01 % 6.32 dB

Date: 25.FEB.2013 15:50:16

Peak-to-Average Ratio for 16QAM-RB Size 75, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.57 dBm
 Peak 27.90 dBm
 Crest 8.33 dB

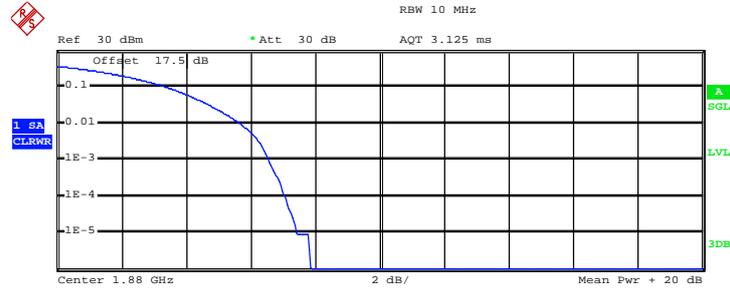
10 % 3.36 dB
 1 % 5.52 dB
 .1 % 6.76 dB
 .01 % 7.40 dB

Date: 25.FEB.2013 15:50:38



Band:	LTE Band 2	Bandwidth:	20MHz
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Peak-to-Average Ratio for QPSK-RB Size 100, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

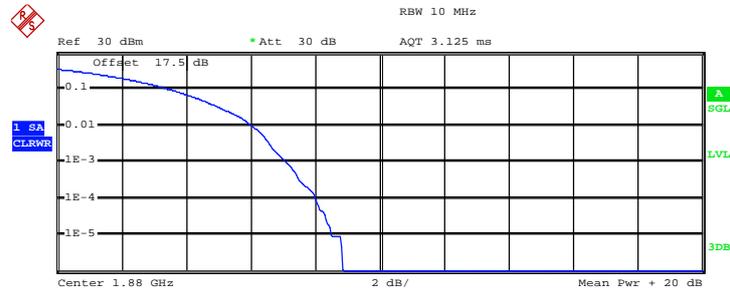
Trace 1

Mean 19.41 dBm
 Peak 27.26 dBm
 Crest 7.85 dB

10 % 3.48 dB
 1 % 5.72 dB
 .1 % 6.56 dB
 .01 % 7.08 dB

Date: 25.FEB.2013 15:51:41

Peak-to-Average Ratio for 16QAM-RB Size 100, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 18.40 dBm
 Peak 27.26 dBm
 Crest 8.86 dB

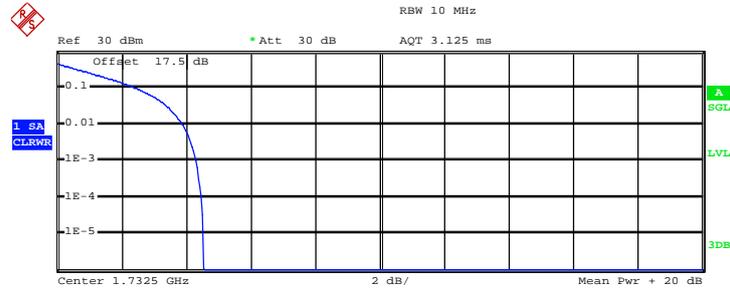
10 % 3.60 dB
 1 % 6.08 dB
 .1 % 7.12 dB
 .01 % 8.04 dB

Date: 25.FEB.2013 15:51:22



Band:	LTE Band 4	Bandwidth:	1.4MHz
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Peak-to-Average Ratio for QPSK-RB Size 6, RB Offset 0



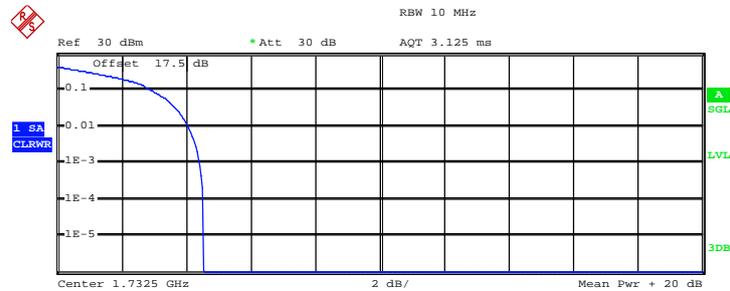
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 23.01 dBm
 Peak 27.54 dBm
 Crest 4.53 dB

10 % 2.48 dB
 1 % 3.92 dB
 .1 % 4.32 dB
 .01 % 4.48 dB

Date: 25.FEB.2013 15:57:34

Peak-to-Average Ratio for 16QAM-RB Size 6, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 23.07 dBm
 Peak 27.61 dBm
 Crest 4.55 dB

10 % 2.96 dB
 1 % 4.08 dB
 .1 % 4.44 dB
 .01 % 4.56 dB

Date: 25.FEB.2013 15:57:10



Band:	LTE Band 4	Bandwidth:	3MHz
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Peak-to-Average Ratio for QPSK-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

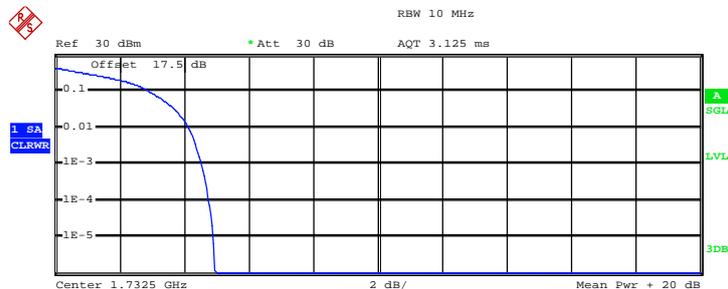
Trace 1

Mean 22.98 dBm
 Peak 27.83 dBm
 Crest 4.85 dB

10 % 2.48 dB
 1 % 3.96 dB
 .1 % 4.44 dB
 .01 % 4.68 dB

Date: 25.FEB.2013 15:56:11

Peak-to-Average Ratio for 16QAM-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 23.08 dBm
 Peak 28.04 dBm
 Crest 4.96 dB

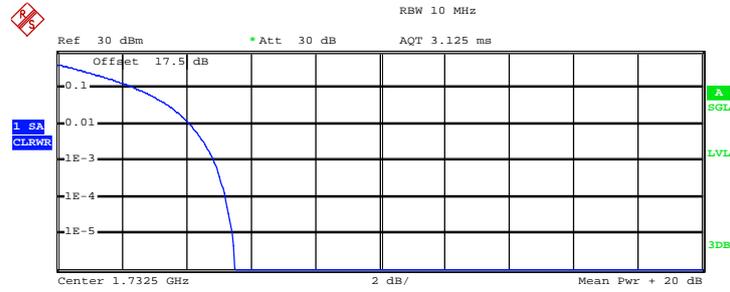
10 % 2.96 dB
 1 % 4.16 dB
 .1 % 4.56 dB
 .01 % 4.76 dB

Date: 25.FEB.2013 15:56:39



Band:	LTE Band 4	Bandwidth:	5MHz
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Peak-to-Average Ratio for QPSK-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

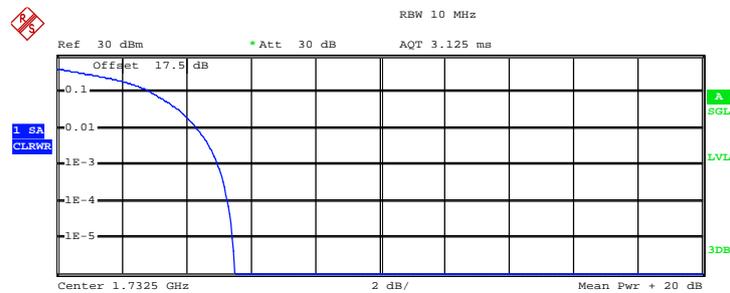
Trace 1

Mean 22.89 dBm
 Peak 28.39 dBm
 Crest 5.50 dB

10 % 2.48 dB
 1 % 4.12 dB
 .1 % 4.88 dB
 .01 % 5.24 dB

Date: 25.FEB.2013 15:55:39

Peak-to-Average Ratio for 16QAM-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 22.89 dBm
 Peak 28.39 dBm
 Crest 5.50 dB

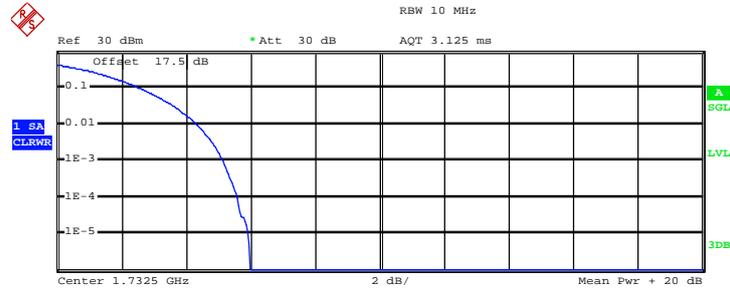
10 % 2.96 dB
 1 % 4.36 dB
 .1 % 5.00 dB
 .01 % 5.28 dB

Date: 25.FEB.2013 15:55:25



Band:	LTE Band 4	Bandwidth:	10MHz
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Peak-to-Average Ratio for QPSK-RB Size 50, RB Offset 0



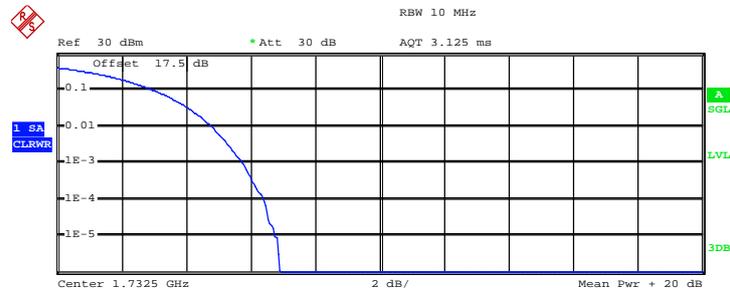
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 22.40 dBm
Peak 28.39 dBm
Crest 5.99 dB

10 % 2.60 dB
1 % 4.36 dB
.1 % 5.16 dB
.01 % 5.60 dB

Date: 25.FEB.2013 15:54:29

Peak-to-Average Ratio for 16QAM-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 22.42 dBm
Peak 29.31 dBm
Crest 6.89 dB

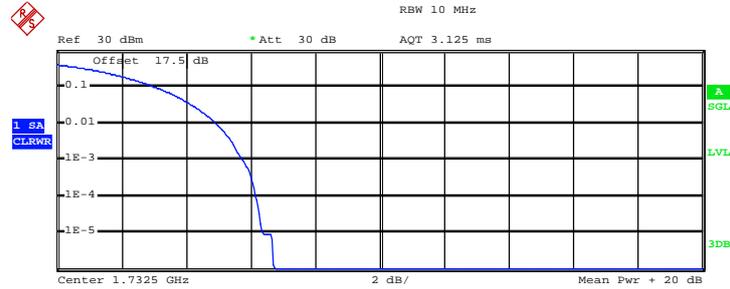
10 % 3.08 dB
1 % 4.80 dB
.1 % 5.76 dB
.01 % 6.44 dB

Date: 25.FEB.2013 15:54:52



Band:	LTE Band 4	Bandwidth:	15MHz
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Peak-to-Average Ratio for QPSK-RB Size 75, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.11 dBm
 Peak 27.83 dBm
 Crest 6.72 dB

10 % 3.12 dB
 1 % 4.96 dB
 .1 % 5.76 dB
 .01 % 6.16 dB

Date: 25.FEB.2013 15:53:56

Peak-to-Average Ratio for 16QAM-RB Size 75, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.07 dBm
 Peak 29.02 dBm
 Crest 7.95 dB

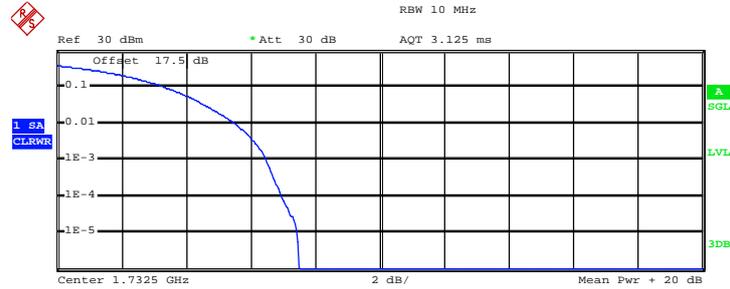
10 % 3.36 dB
 1 % 5.48 dB
 .1 % 6.76 dB
 .01 % 7.48 dB

Date: 25.FEB.2013 15:53:36



Band:	LTE Band 4	Bandwidth:	20MHz
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Peak-to-Average Ratio for QPSK-RB Size 100, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

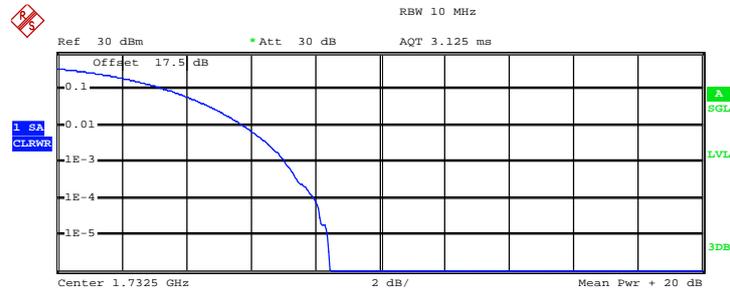
Trace 1

Mean 19.83 dBm
 Peak 27.33 dBm
 Crest 7.51 dB

10 % 3.40 dB
 1 % 5.56 dB
 .1 % 6.48 dB
 .01 % 6.96 dB

Date: 25.FEB.2013 15:52:37

Peak-to-Average Ratio for 16QAM-RB Size 100, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.87 dBm
 Peak 28.32 dBm
 Crest 8.45 dB

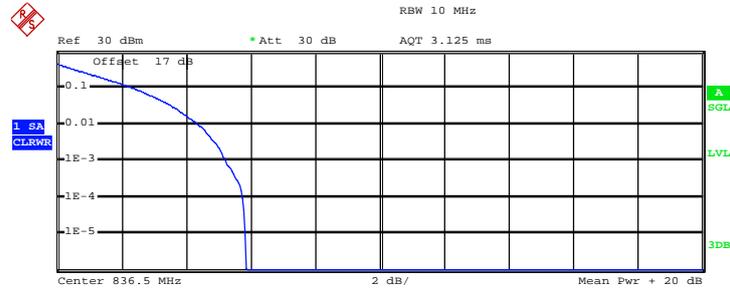
10 % 3.48 dB
 1 % 5.80 dB
 .1 % 7.08 dB
 .01 % 8.00 dB

Date: 25.FEB.2013 15:52:52



Band:	LTE Band 5	Bandwidth:	1.4MHz
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Peak-to-Average Ratio for QPSK-RB Size 6, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 22.48 dBm
 Peak 28.32 dBm
 Crest 5.84 dB

10 % 2.40 dB
 1 % 4.40 dB
 .1 % 5.24 dB
 .01 % 5.76 dB

Date: 25.FEB.2013 15:42:06

Peak-to-Average Ratio for 16QAM-RB Size 6, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 21.75 dBm
 Peak 28.25 dBm
 Crest 6.50 dB

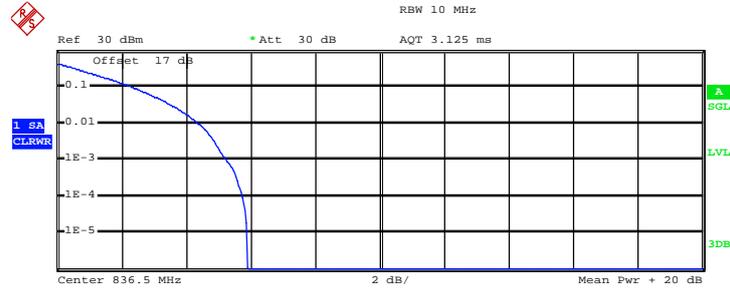
10 % 2.88 dB
 1 % 4.96 dB
 .1 % 5.92 dB
 .01 % 6.40 dB

Date: 25.FEB.2013 15:41:51



Band:	LTE Band 5	Bandwidth:	3MHz
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Peak-to-Average Ratio for QPSK-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

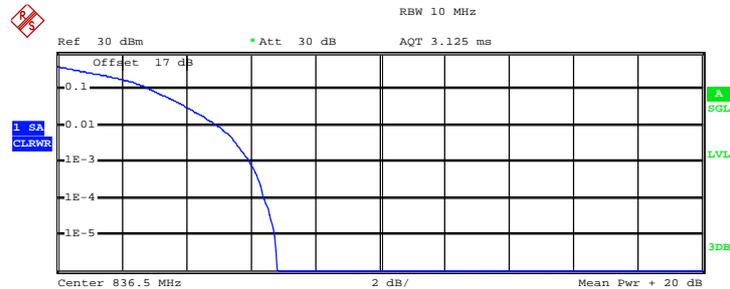
Trace 1

Mean 22.42 dBm
 Peak 28.32 dBm
 Crest 5.90 dB

10 % 2.40 dB
 1 % 4.40 dB
 .1 % 5.28 dB
 .01 % 5.76 dB

Date: 25.FEB.2013 15:39:56

Peak-to-Average Ratio for 16QAM-RB Size 15, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.44 dBm
 Peak 28.25 dBm
 Crest 6.81 dB

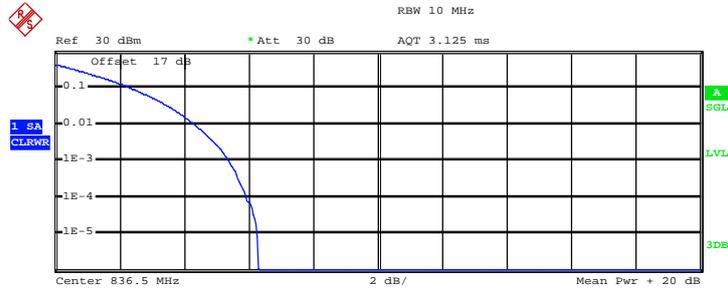
10 % 2.96 dB
 1 % 5.00 dB
 .1 % 6.00 dB
 .01 % 6.44 dB

Date: 25.FEB.2013 15:40:20



Band:	LTE Band 5	Bandwidth:	5MHz
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Peak-to-Average Ratio for QPSK-RB Size 25, RB Offset 0



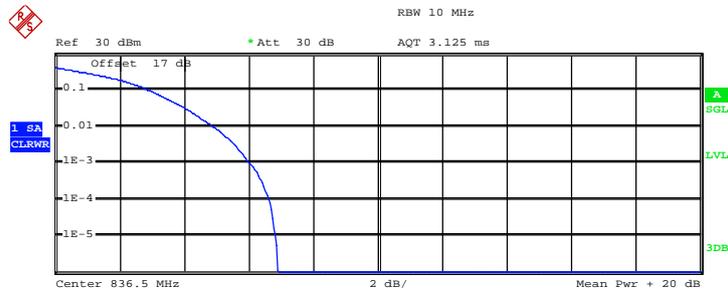
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 22.23 dBm
Peak 28.53 dBm
Crest 6.30 dB

10 % 2.40 dB
1 % 4.36 dB
.1 % 5.40 dB
.01 % 5.92 dB

Date: 25.FEB.2013 15:39:15

Peak-to-Average Ratio for 16QAM-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 21.27 dBm
Peak 28.18 dBm
Crest 6.90 dB

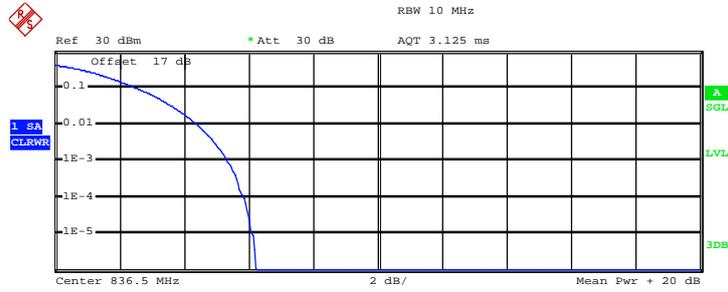
10 % 2.96 dB
1 % 4.92 dB
.1 % 6.04 dB
.01 % 6.64 dB

Date: 25.FEB.2013 15:38:57



Band:	LTE Band 5	Bandwidth:	10MHz
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Peak-to-Average Ratio for QPSK-RB Size 50, RB Offset 0



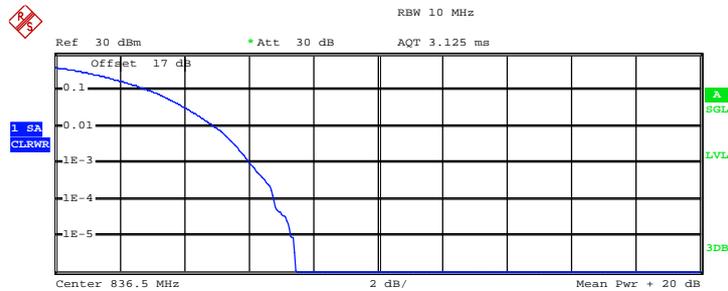
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 21.68 dBm
 Peak 27.90 dBm
 Crest 6.22 dB

10 % 2.56 dB
 1 % 4.40 dB
 .1 % 5.32 dB
 .01 % 5.88 dB

Date: 25.FEB.2013 15:36:10

Peak-to-Average Ratio for 16QAM-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 20.73 dBm
 Peak 28.18 dBm
 Crest 7.45 dB

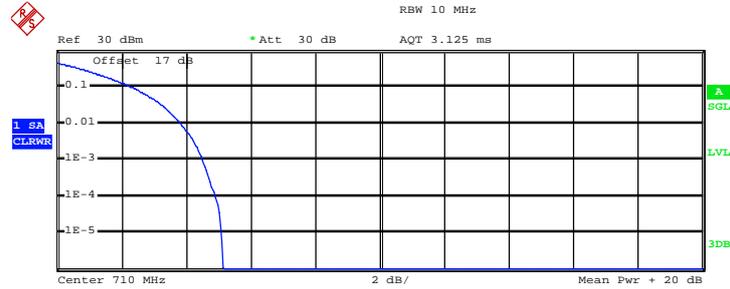
10 % 2.96 dB
 1 % 4.96 dB
 .1 % 6.04 dB
 .01 % 6.80 dB

Date: 25.FEB.2013 15:36:34



Band:	LTE Band 17	Bandwidth:	5MHz
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Peak-to-Average Ratio for QPSK-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

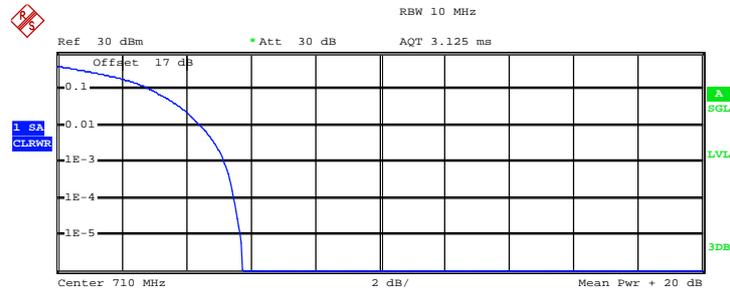
Trace 1

Mean 22.27 dBm
 Peak 27.40 dBm
 Crest 5.13 dB

10 % 2.36 dB
 1 % 3.84 dB
 .1 % 4.52 dB
 .01 % 4.92 dB

Date: 25.FEB.2013 15:33:33

Peak-to-Average Ratio for 16QAM-RB Size 25, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.37 dBm
 Peak 27.12 dBm
 Crest 5.75 dB

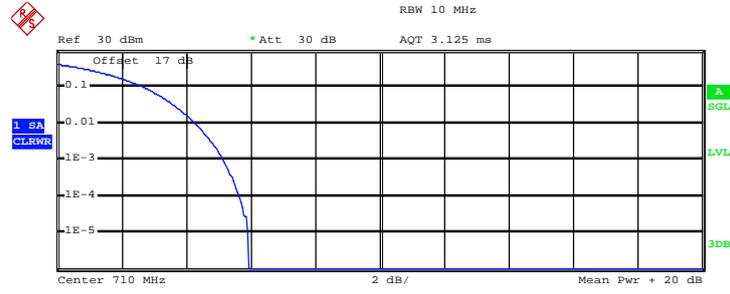
10 % 2.92 dB
 1 % 4.48 dB
 .1 % 5.20 dB
 .01 % 5.48 dB

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



Band:	LTE Band 17	Bandwidth:	10MHz
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Peak-to-Average Ratio for QPSK-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

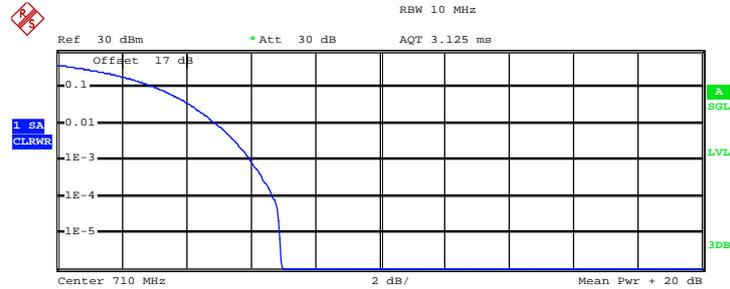
Trace 1

Mean 21.82 dBm
 Peak 27.76 dBm
 Crest 5.93 dB

10 % 2.72 dB
 1 % 4.32 dB
 .1 % 5.16 dB
 .01 % 5.68 dB

Date: 25.FEB.2013 15:34:09

Peak-to-Average Ratio for 16QAM-RB Size 50, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.80 dBm
 Peak 27.76 dBm
 Crest 6.96 dB

10 % 3.12 dB
 1 % 4.96 dB
 .1 % 6.00 dB
 .01 % 6.68 dB

Date: 25.FEB.2013 15:34:35

3.3 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.3.1 Description of 99% Occupied Bandwidth and 26dB 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 emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

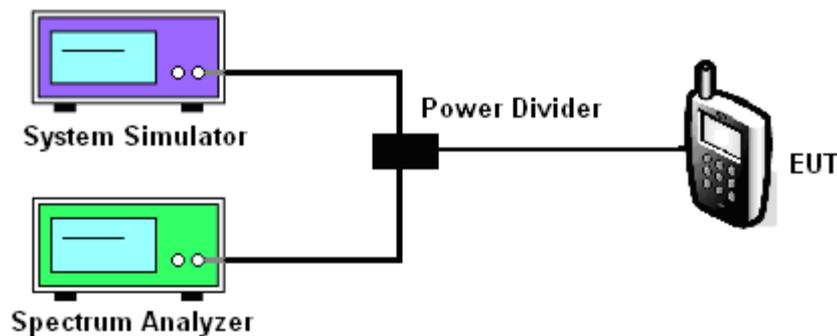
3.3.2 Measuring Instruments

See list of measuring instruments 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 99% occupied bandwidth and 26 dB bandwidth of the middle channel for the highest RF powers were measured.

3.3.4 Test Setup



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

Band	Band Width	Channel	Frequency (MHz)	Modulation	99%Bandwidth (MHz)	26dB Bandwidth (MHz)
LTE Band 2	1.4MHz	18900	1880	QPSK	1.0976	1.2992
				16-QAM	1.1032	1.3048
	3MHz	18900	1880	QPSK	2.7240	3.1080
				16-QAM	2.7360	3.1200
	5MHz	18900	1880	QPSK	4.5000	5.0800
				16-QAM	4.5000	5.0400
	10MHz	18900	1880	QPSK	9.1600	10.0800
				16-QAM	9.1200	10.0400
	15MHz	18900	1880	QPSK	13.5000	14.7600
				16-QAM	13.5000	14.8800
	20MHz	18900	1880	QPSK	18.0000	21.2800
				16-QAM	18.0000	21.2800
LTE Band 4	1.4MHz	20175	1732.5	QPSK	1.1032	1.3216
				16-QAM	1.1088	1.3384
	3MHz	20175	1732.5	QPSK	2.7480	3.0960
				16-QAM	2.7480	3.1680
	5MHz	20175	1732.5	QPSK	4.5000	5.1600
				16-QAM	4.5200	5.1200
	10MHz	20175	1732.5	QPSK	9.1200	10.1200
				16-QAM	9.1200	10.0400
	15MHz	20175	1732.5	QPSK	13.5600	14.9400
				16-QAM	13.5600	14.8800
	20MHz	20175	1732.5	QPSK	18.0000	21.2000
				16-QAM	18.0000	21.4400

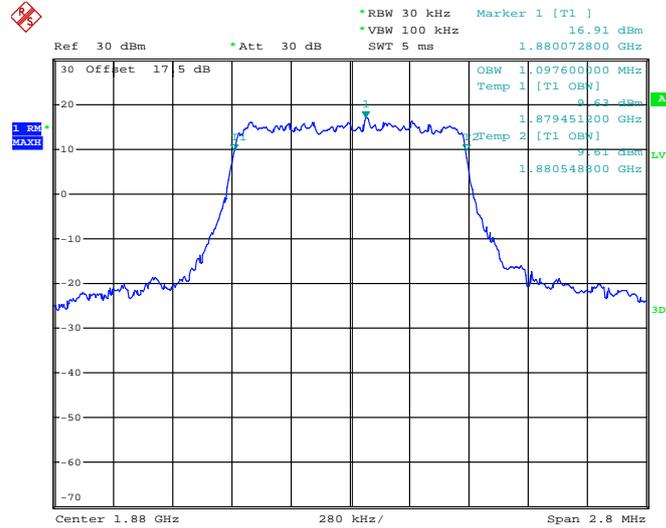


Band	Band Width	Channel	Frequency (MHz)	Modulation	99%Bandwidth (MHz)	26dB Bandwidth (MHz)
LTE Band 5	1.4MHz	20525	836.5	QPSK	1.0976	1.3104
				16-QAM	1.1032	1.3048
	3MHz	20525	836.5	QPSK	2.7360	3.1320
				16-QAM	2.7240	3.1080
	5MHz	20525	836.5	QPSK	4.4800	5.1000
				16-QAM	4.5000	5.0000
10MHz	20525	836.5	QPSK	9.1200	10.0400	
			16-QAM	9.0800	10.0400	
LTE Band 17	5MHz	23790	710.0	QPSK	4.5200	5.1600
				16-QAM	4.5200	5.0800
	10MHz	23790	710.0	QPSK	9.1200	10.0400
				16-QAM	9.1200	10.0000

3.3.6 Test Result (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth

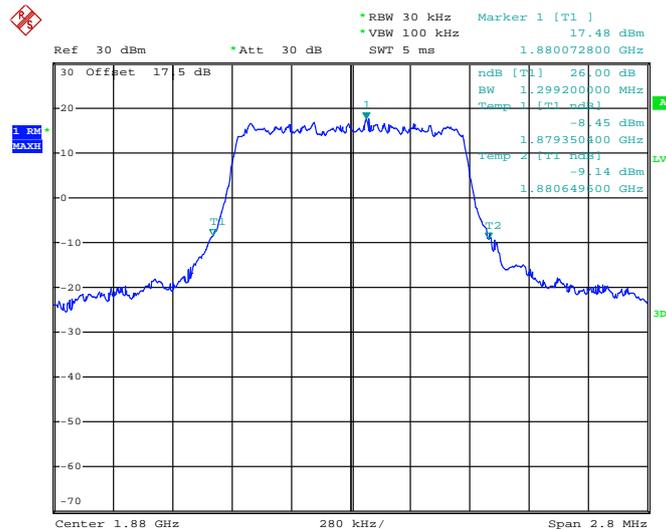
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18900 for RB Size 6, RB Offset 0



Date: 26.FEB.2013 09:43:45

26dB Bandwidth Plot on Channel 18900 for RB Size 6, RB Offset 0

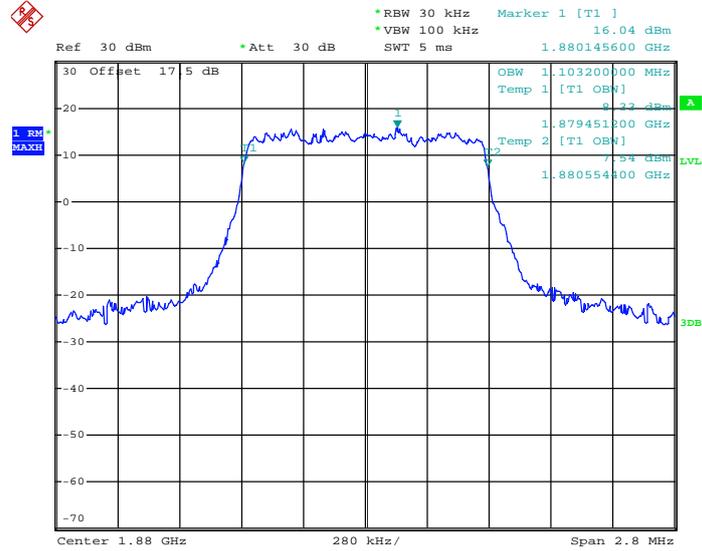


Date: 25.FEB.2013 14:57:05



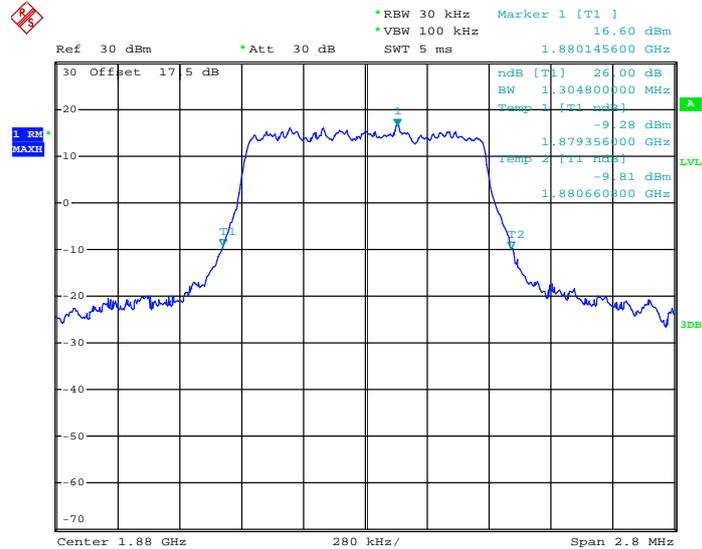
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 6, RB Offset 0**



Date: 26.FEB.2013 09:44:18

**26dB Bandwidth Plot on Channel 18900
for RB Size 6, RB Offset 0**

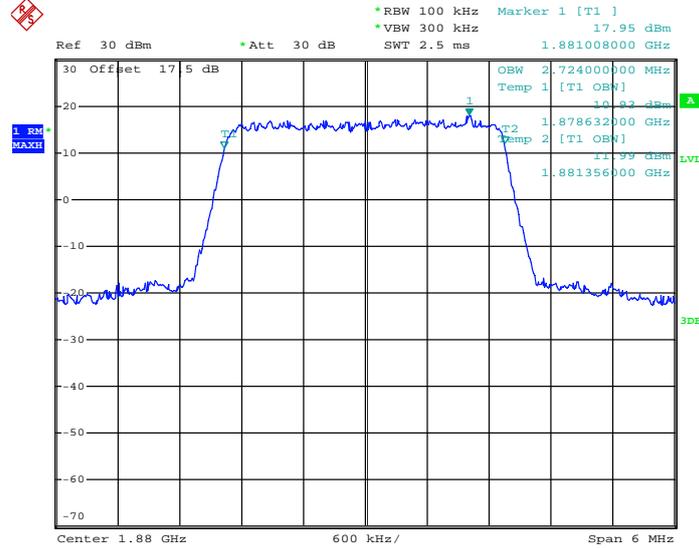


Date: 25.FEB.2013 14:56:31



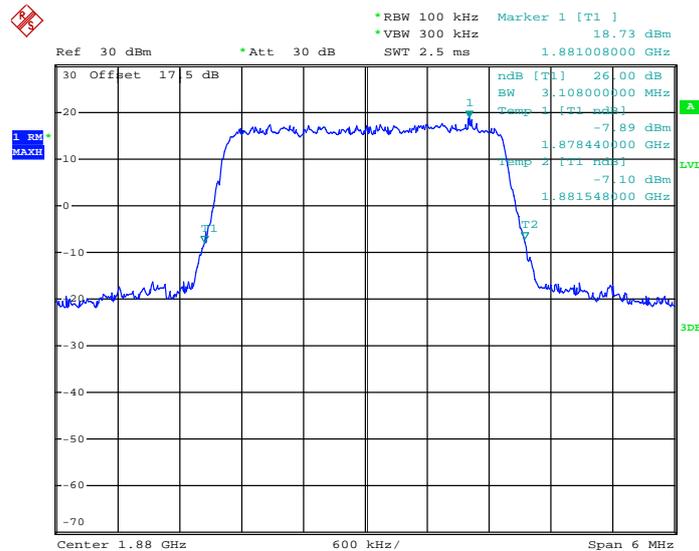
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 15, RB Offset 0**



Date: 26.FEB.2013 09:52:13

**26dB Bandwidth Plot on Channel 18900
for RB Size 15, RB Offset 0**

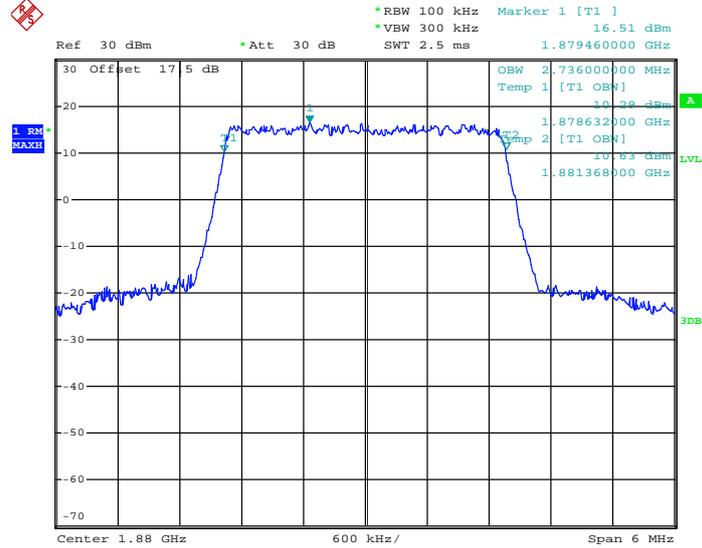


Date: 25.FEB.2013 14:59:14



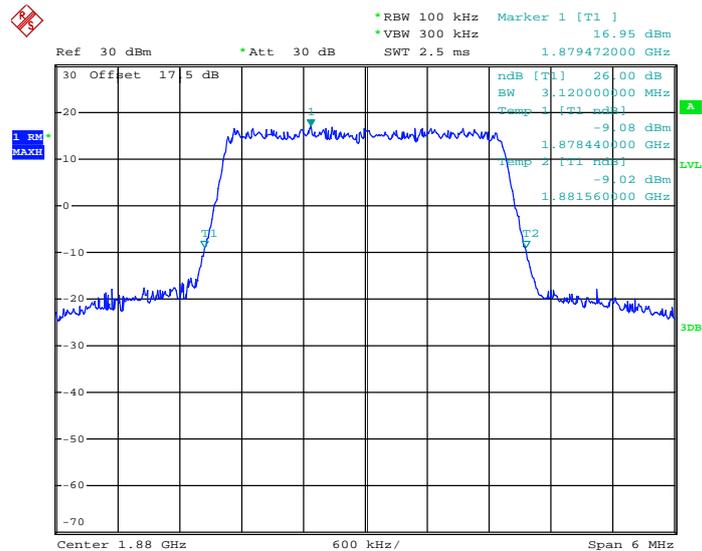
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 15, RB Offset 0**



Date: 26.FEB.2013 09:52:52

**26dB Bandwidth Plot on Channel 18900
for RB Size 15, RB Offset 0**

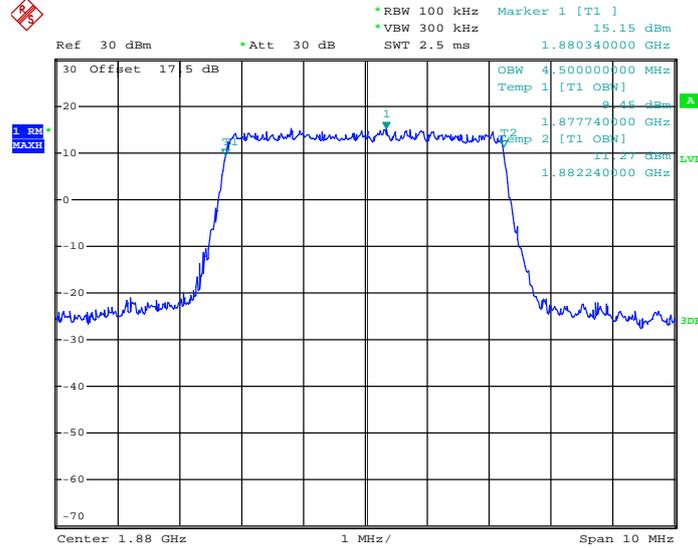


Date: 25.FEB.2013 14:59:43



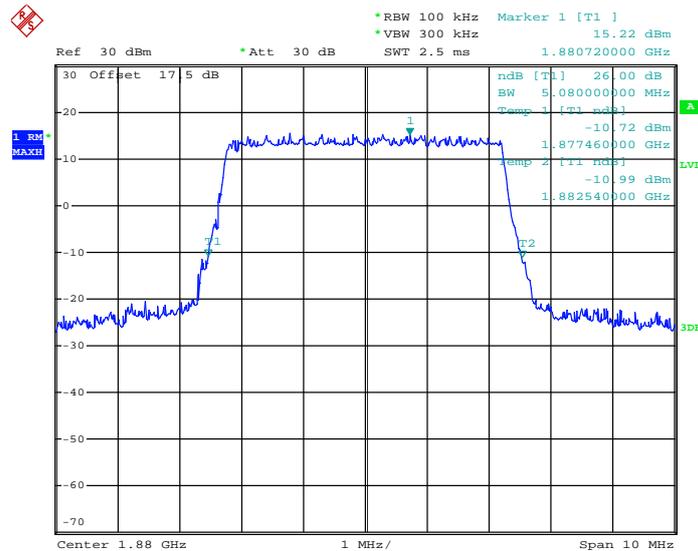
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 25, RB Offset 0**



Date: 26.FEB.2013 09:59:34

**26dB Bandwidth Plot on Channel 18900
for RB Size 25, RB Offset 0**

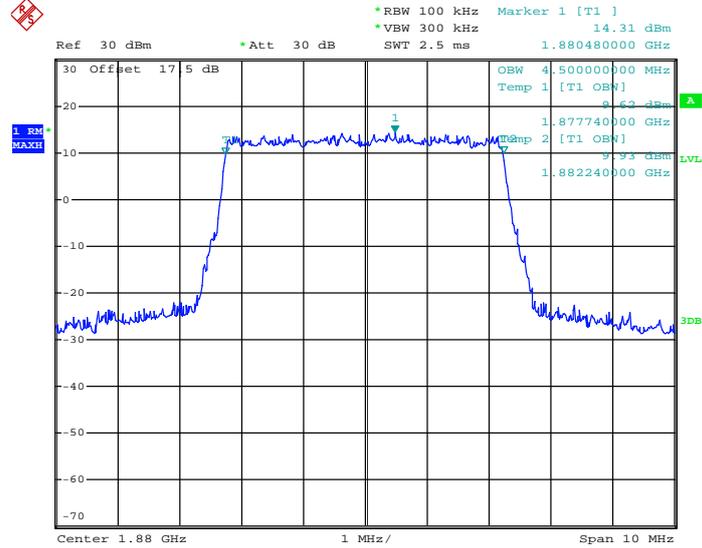


Date: 25.FEB.2013 15:00:59



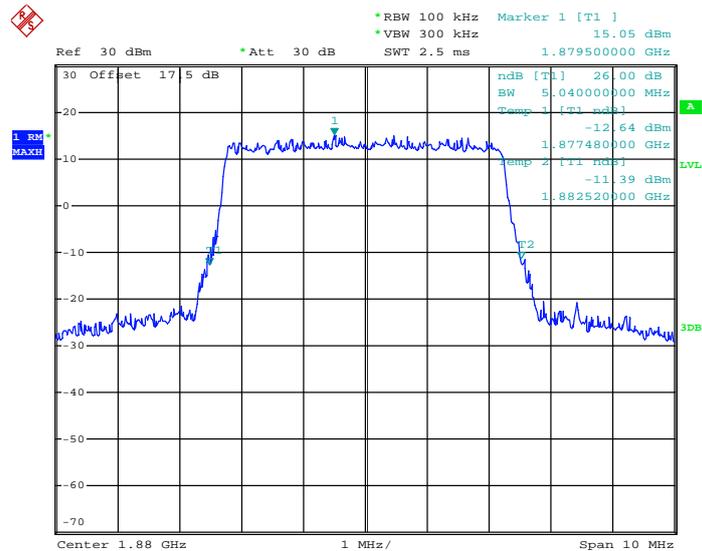
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 25, RB Offset 0**



Date: 26.FEB.2013 10:00:18

**26dB Bandwidth Plot on Channel 18900
for RB Size 25, RB Offset 0**

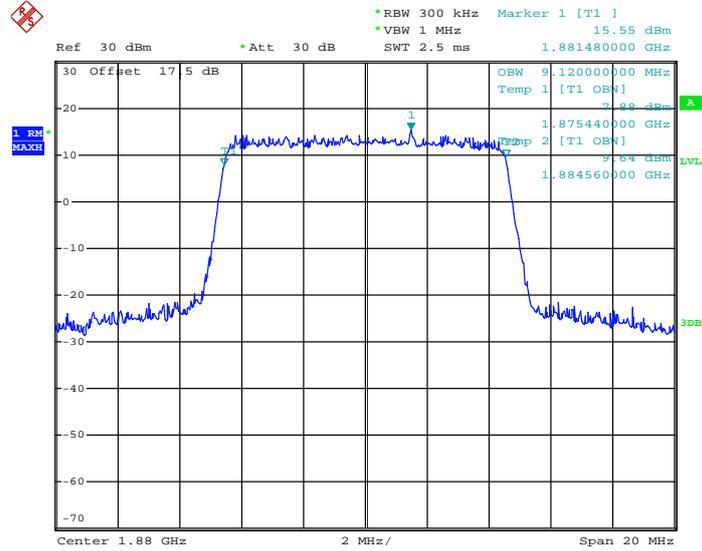


Date: 25.FEB.2013 15:00:28



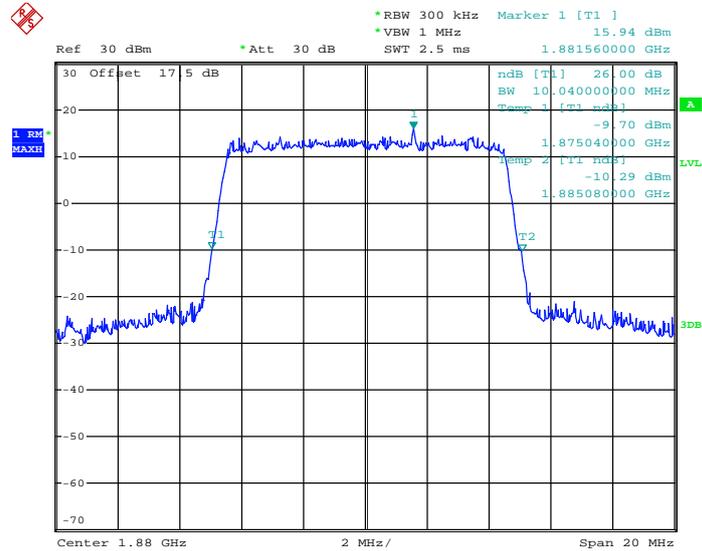
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 50, RB Offset 0**



Date: 26.FEB.2013 10:09:04

**26dB Bandwidth Plot on Channel 18900
for RB Size 50, RB Offset 0**

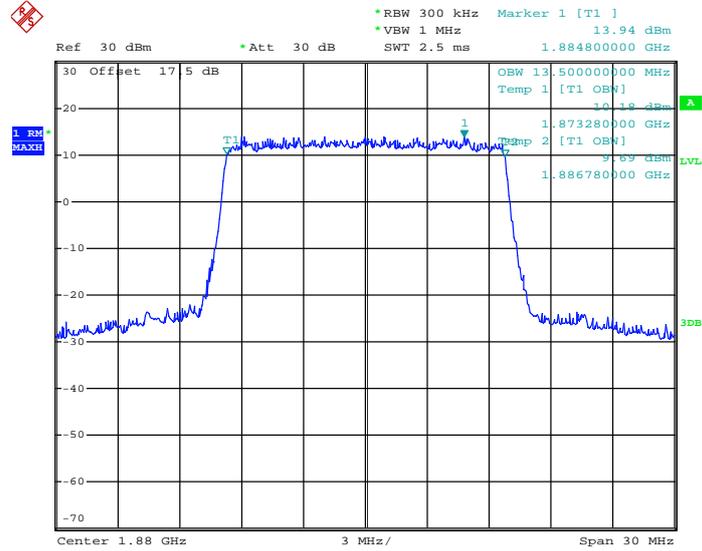


Date: 25.FEB.2013 15:03:54



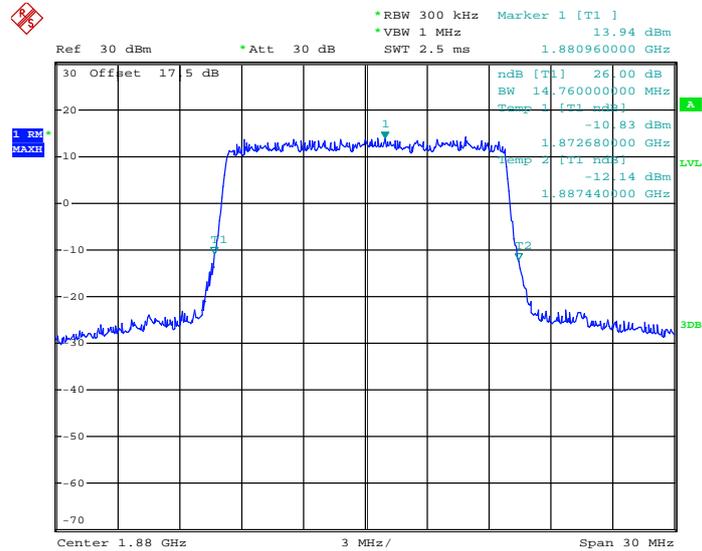
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 75, RB Offset 0**



Date: 26.FEB.2013 10:14:21

**26dB Bandwidth Plot on Channel 18900
for RB Size 75, RB Offset 0**

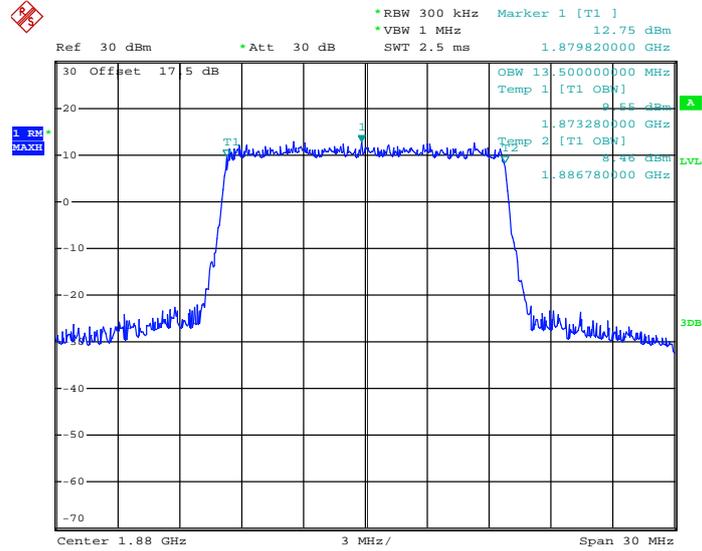


Date: 25.FEB.2013 15:06:31



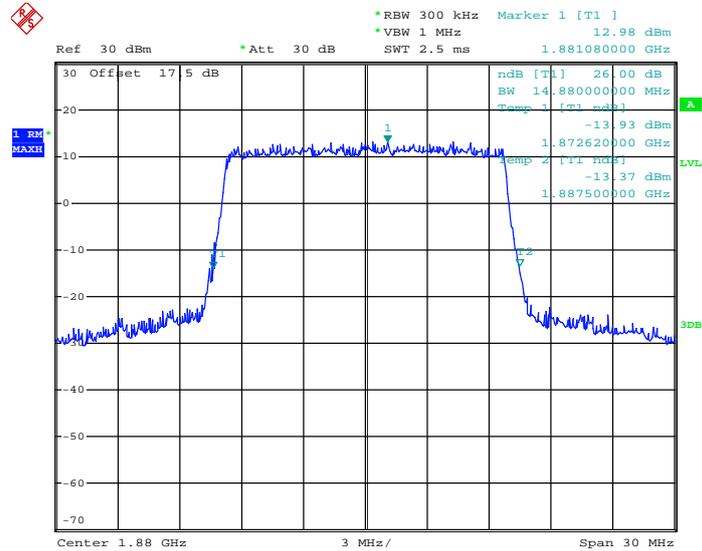
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 75, RB Offset 0**



Date: 26.FEB.2013 10:14:50

**26dB Bandwidth Plot on Channel 18900
for RB Size 75, RB Offset 0**

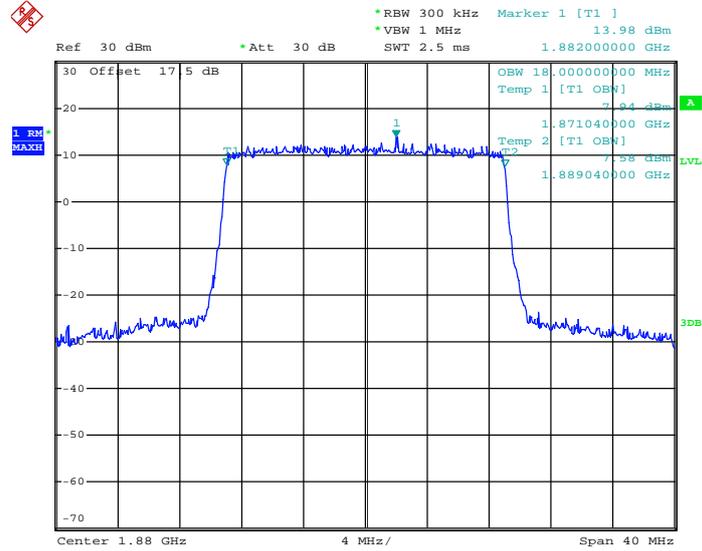


Date: 25.FEB.2013 15:05:24



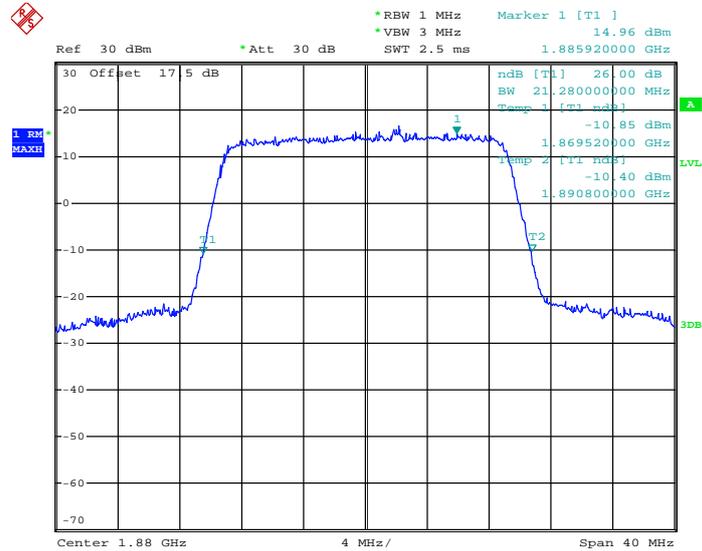
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 100, RB Offset 0**



Date: 26.FEB.2013 10:21:17

**26dB Bandwidth Plot on Channel 18900
for RB Size 100, RB Offset 0**

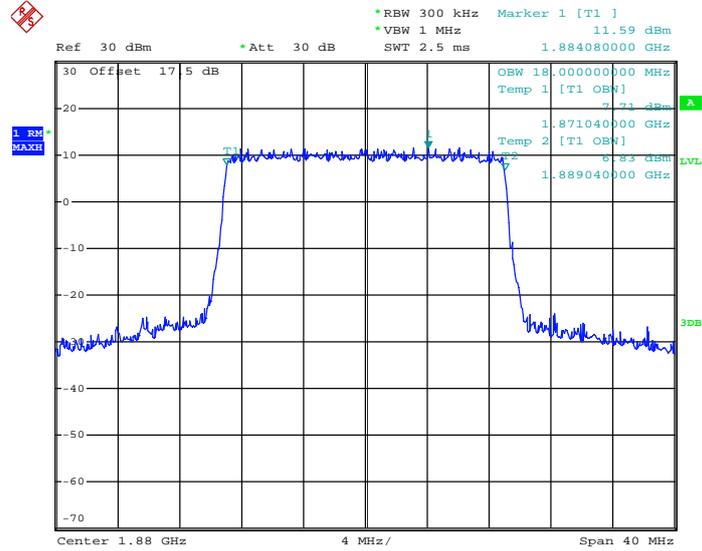


Date: 25.FEB.2013 15:09:08



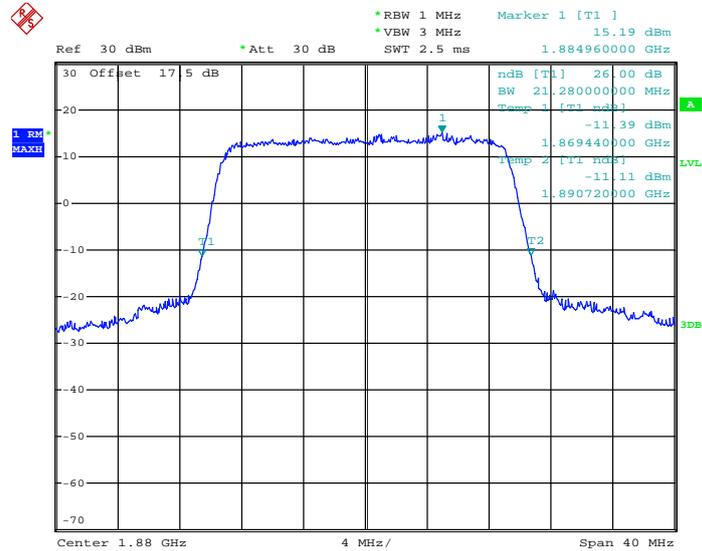
Band :	LTE Band 2	BW / Mod. :	20MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 18900
for RB Size 100, RB Offset 0**



Date: 26.FEB.2013 10:22:29

**26dB Bandwidth Plot on Channel 18900
for RB Size 100, RB Offset 0**

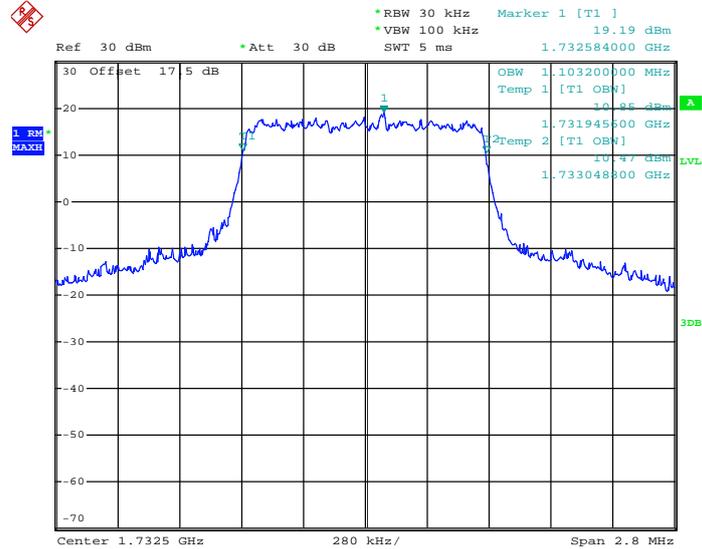


Date: 25.FEB.2013 15:11:14



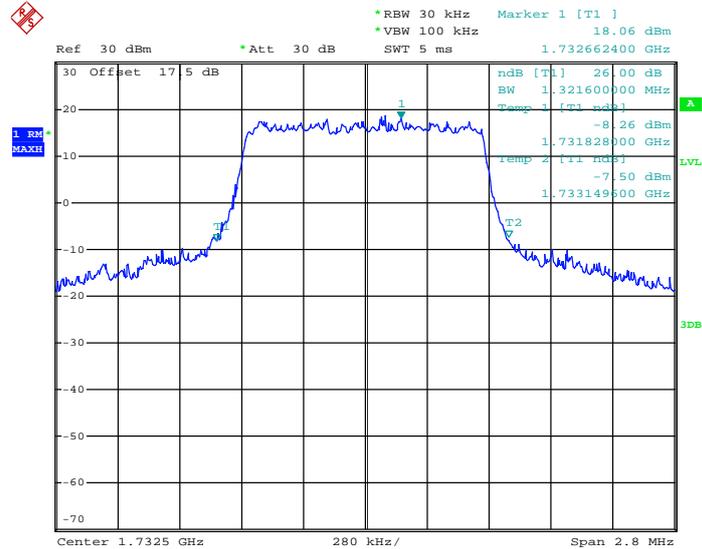
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 6, RB Offset 0**



Date: 25.FEB.2013 16:08:09

**26dB Bandwidth Plot on Channel 20175
for RB Size 6, RB Offset 0**

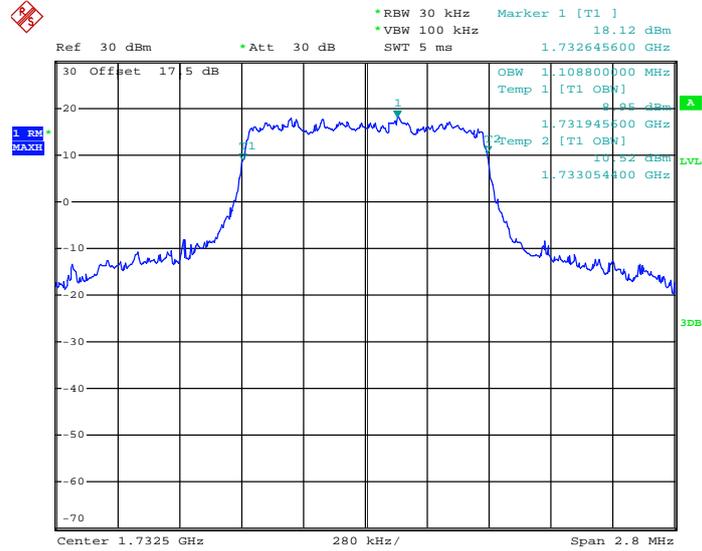


Date: 25.FEB.2013 14:37:55



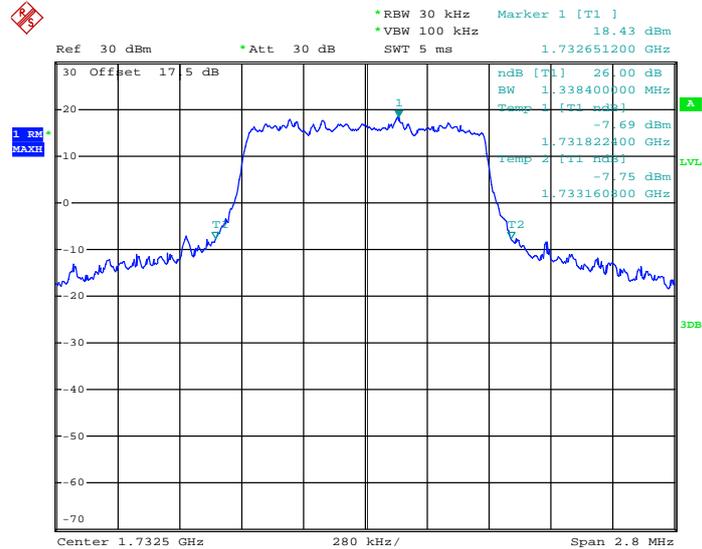
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 6, RB Offset 0**



Date: 25.FEB.2013 16:08:45

**26dB Bandwidth Plot on Channel 20175
for RB Size 6, RB Offset 0**

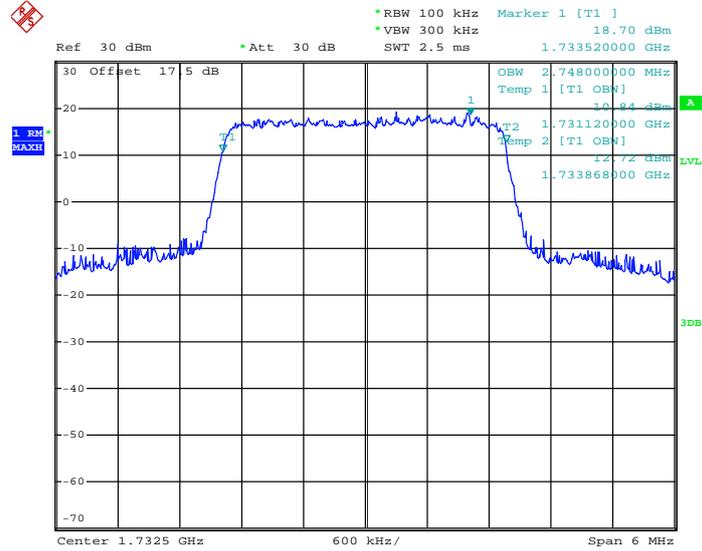


Date: 25.FEB.2013 14:38:35



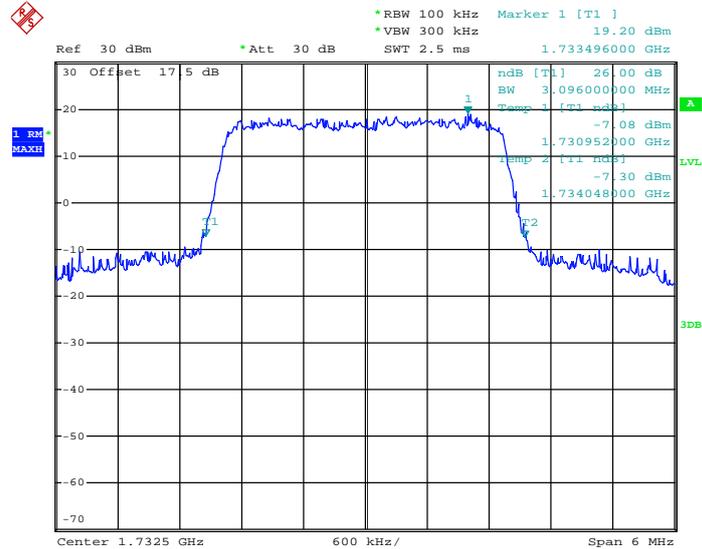
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 15, RB Offset 0**



Date: 25.FEB.2013 16:17:18

**26dB Bandwidth Plot on Channel 20175
for RB Size 15, RB Offset 0**

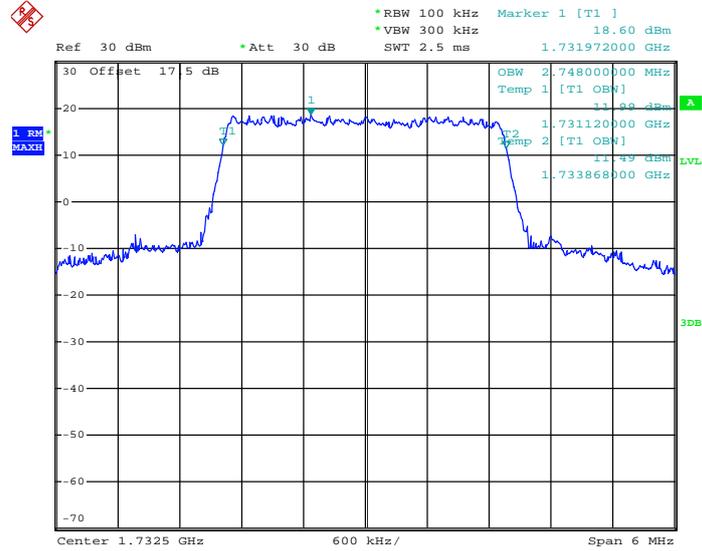


Date: 25.FEB.2013 14:35:57



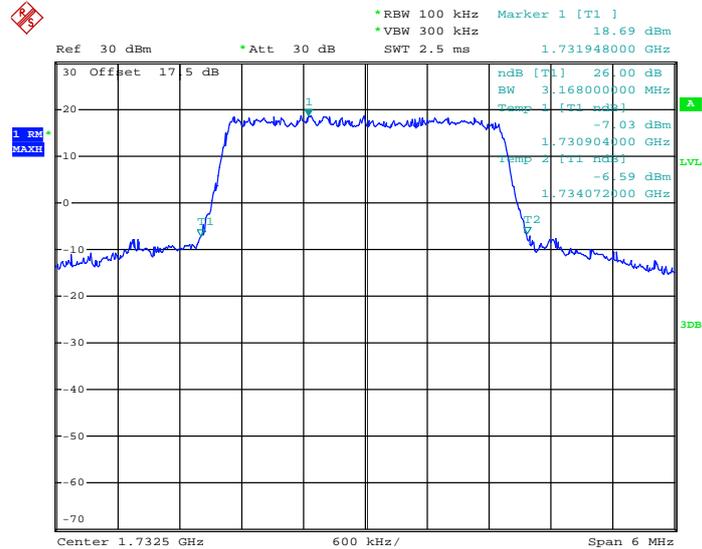
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 15, RB Offset 0**



Date: 25.FEB.2013 16:17:58

**26dB Bandwidth Plot on Channel 20175
for RB Size 15, RB Offset 0**

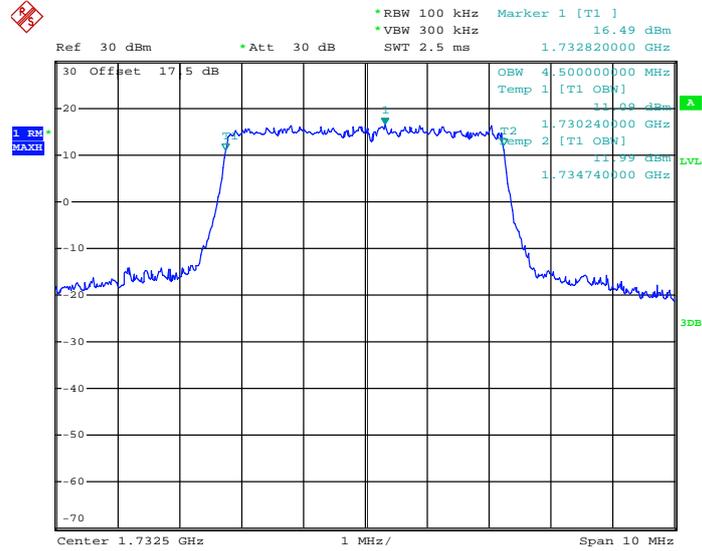


Date: 25.FEB.2013 14:35:23



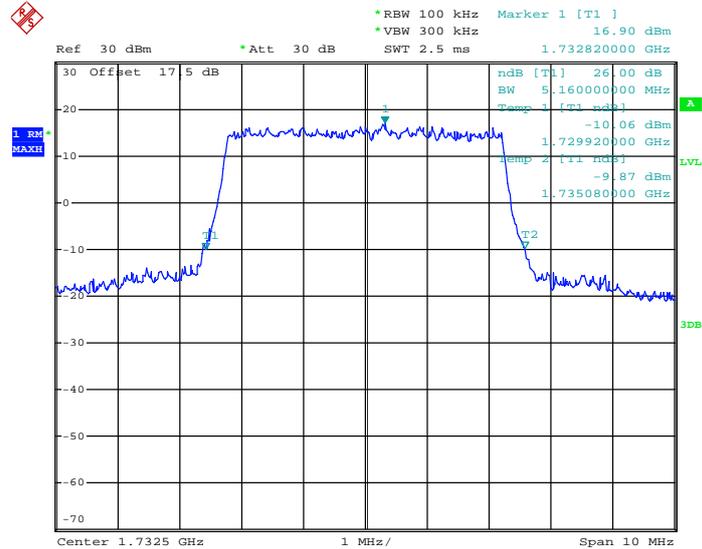
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 25, RB Offset 0**



Date: 25.FEB.2013 16:27:15

**26dB Bandwidth Plot on Channel 20175
for RB Size 25, RB Offset 0**

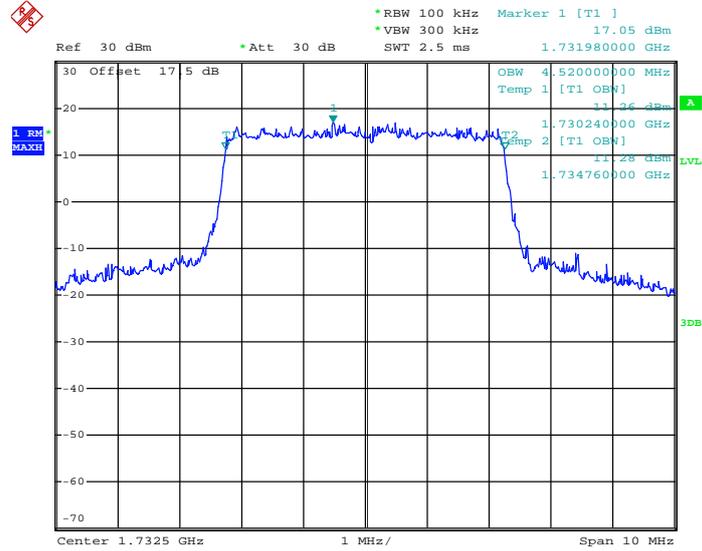


Date: 25.FEB.2013 14:40:03



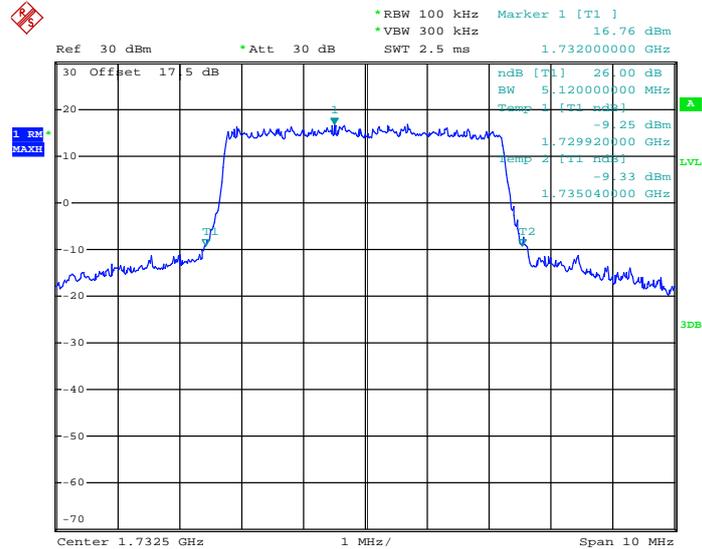
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 25, RB Offset 0**



Date: 25.FEB.2013 16:27:48

**26dB Bandwidth Plot on Channel 20175
for RB Size 25, RB Offset 0**

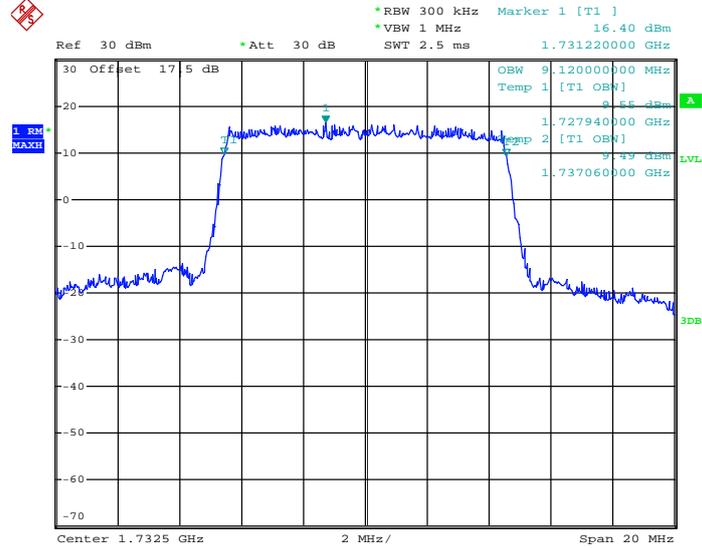


Date: 25.FEB.2013 14:51:02



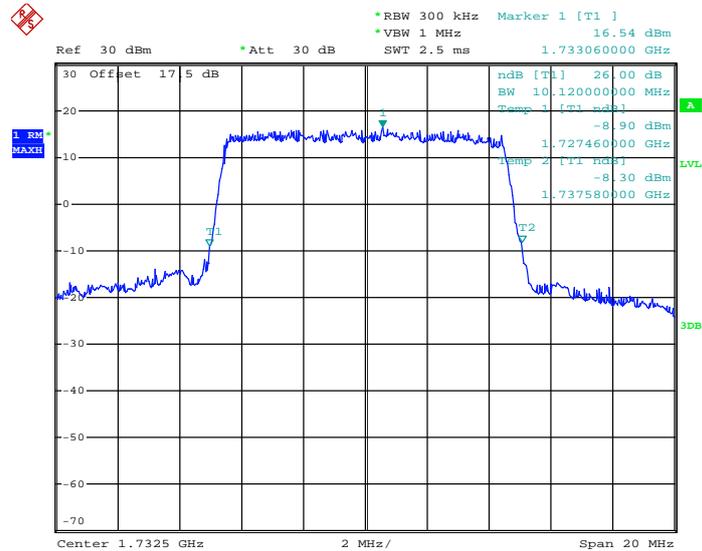
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 50, RB Offset 0**



Date: 25.FEB.2013 16:38:38

**26dB Bandwidth Plot on Channel 20175
for RB Size 50, RB Offset 0**

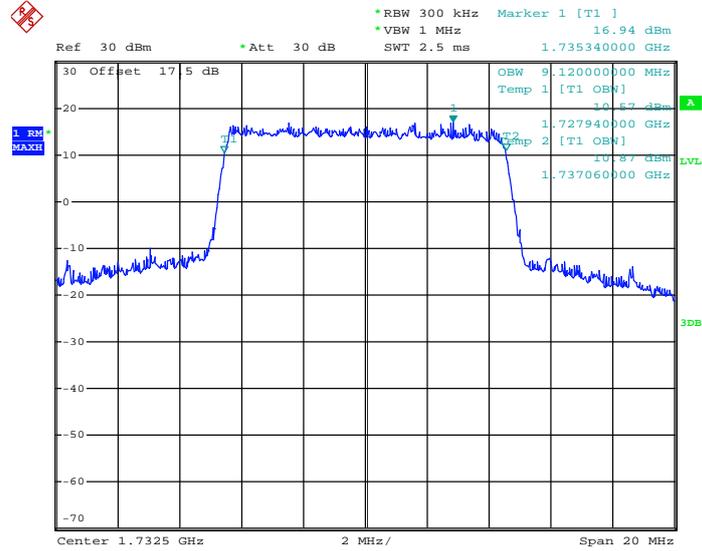


Date: 25.FEB.2013 14:43:23



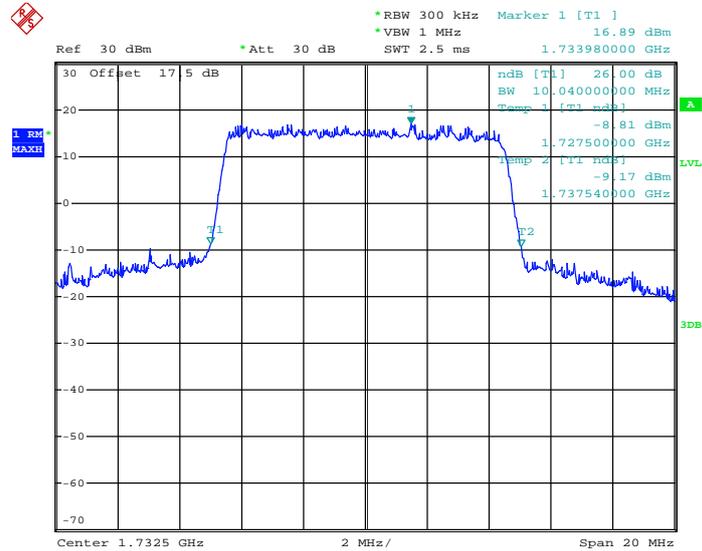
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 50, RB Offset 0**



Date: 25.FEB.2013 16:38:07

**26dB Bandwidth Plot on Channel 20175
for RB Size 50, RB Offset 0**

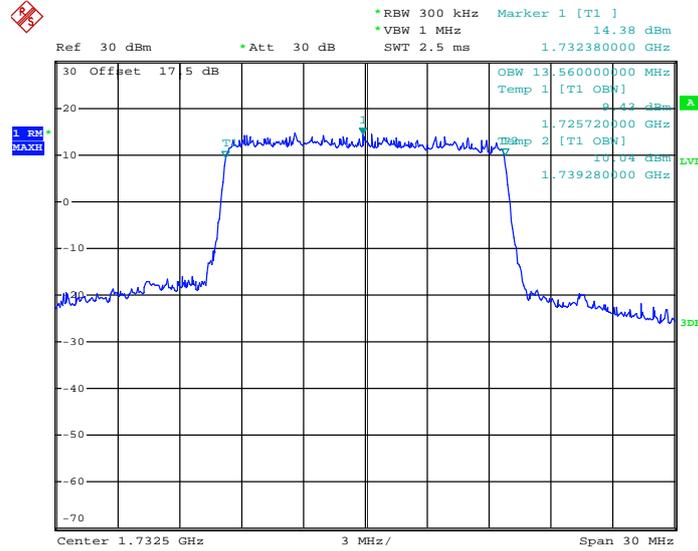


Date: 25.FEB.2013 14:42:57



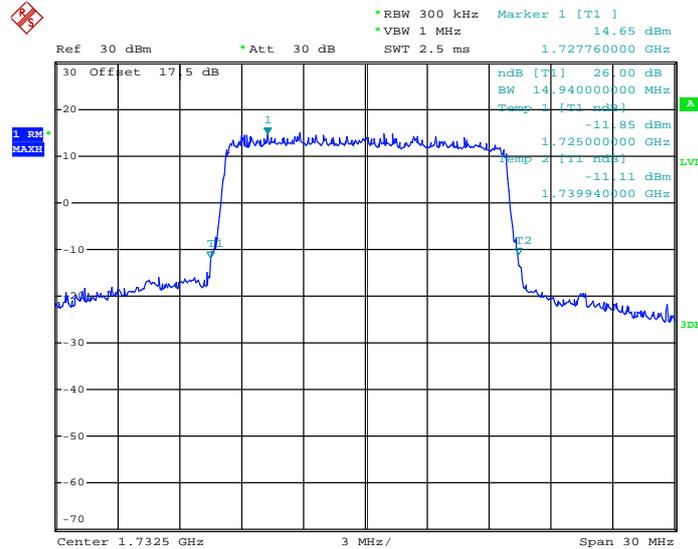
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 75, RB Offset 0**



Date: 25.FEB.2013 16:45:36

**26dB Bandwidth Plot on Channel 20175
for RB Size 75, RB Offset 0**

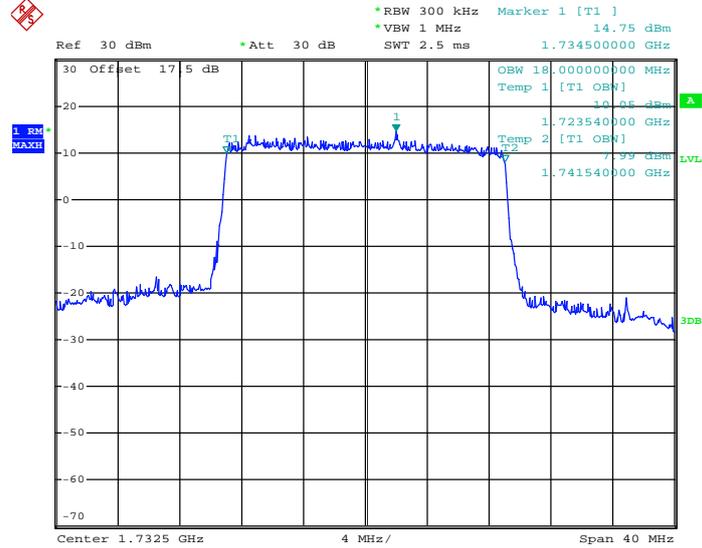


Date: 25.FEB.2013 14:44:11



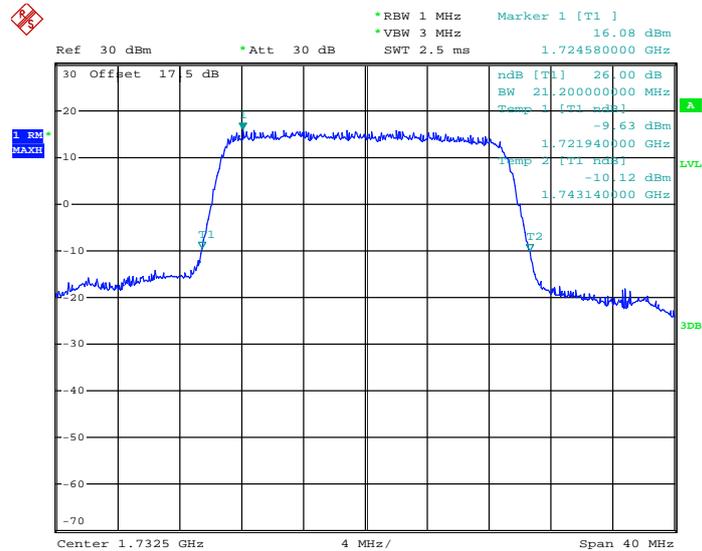
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 100, RB Offset 0**



Date: 25.FEB.2013 16:49:49

**26dB Bandwidth Plot on Channel 20175
for RB Size 100, RB Offset 0**

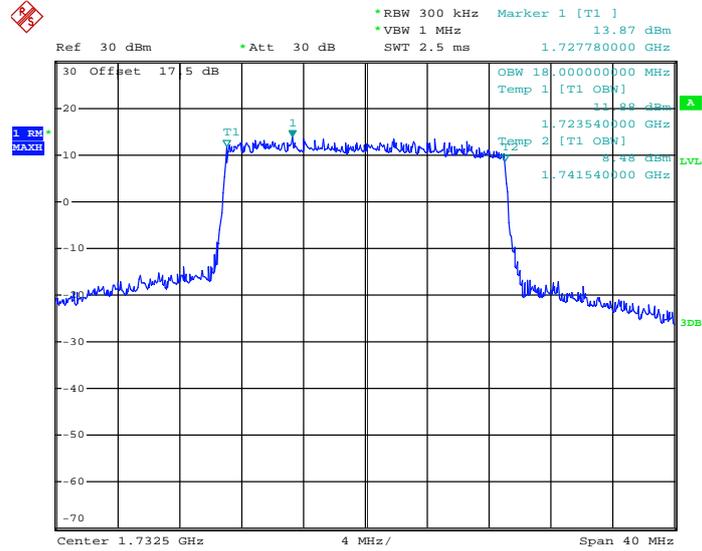


Date: 25.FEB.2013 14:46:17



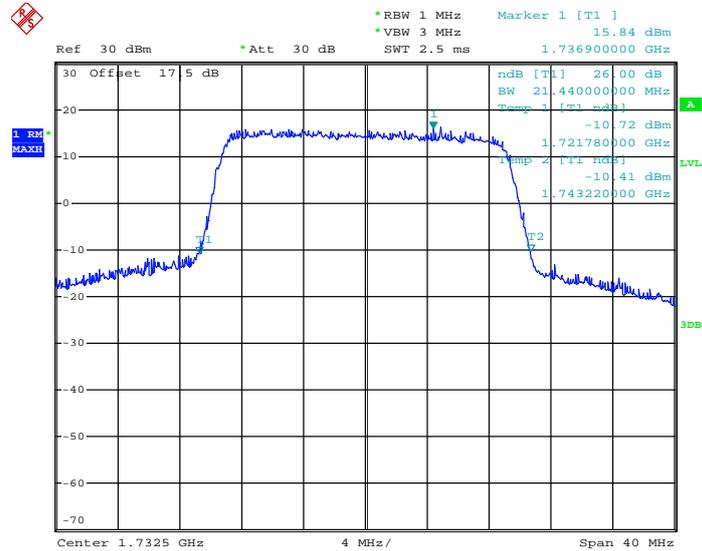
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20175
for RB Size 100, RB Offset 0**



Date: 25.FEB.2013 16:50:28

**26dB Bandwidth Plot on Channel 20175
for RB Size 100, RB Offset 0**

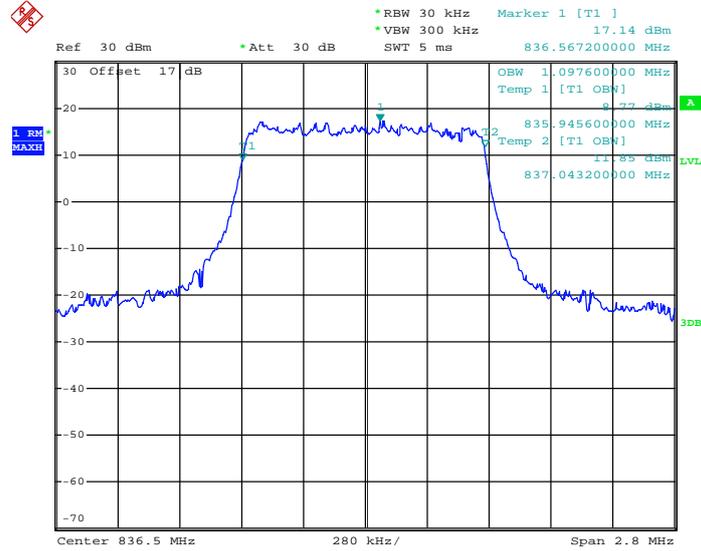


Date: 25.FEB.2013 14:45:48



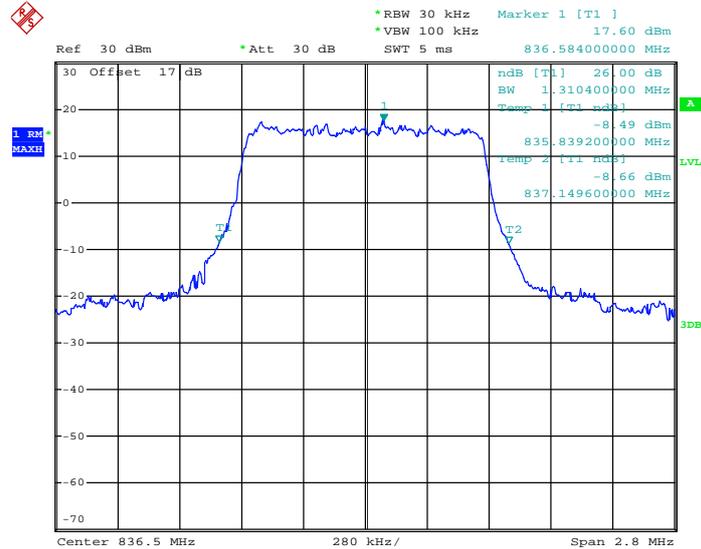
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20525
for RB Size 6, RB Offset 0**



Date: 25.FEB.2013 17:49:12

**26dB Bandwidth Plot on Channel 20525
for RB Size 6, RB Offset 0**

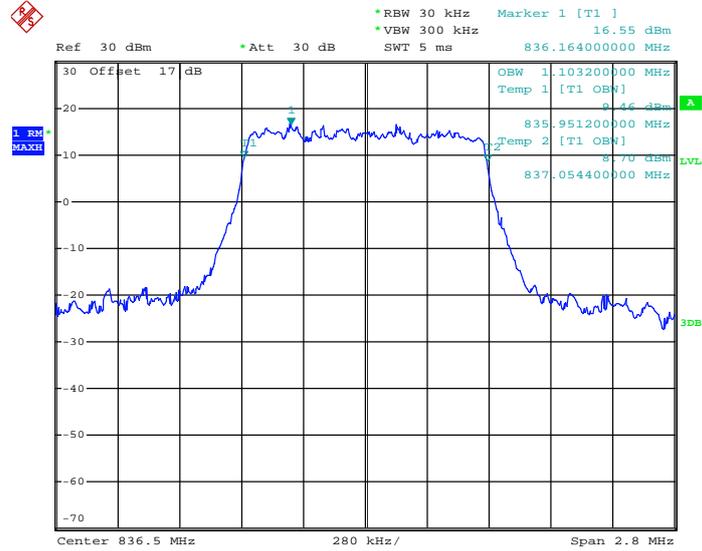


Date: 25.FEB.2013 15:21:12



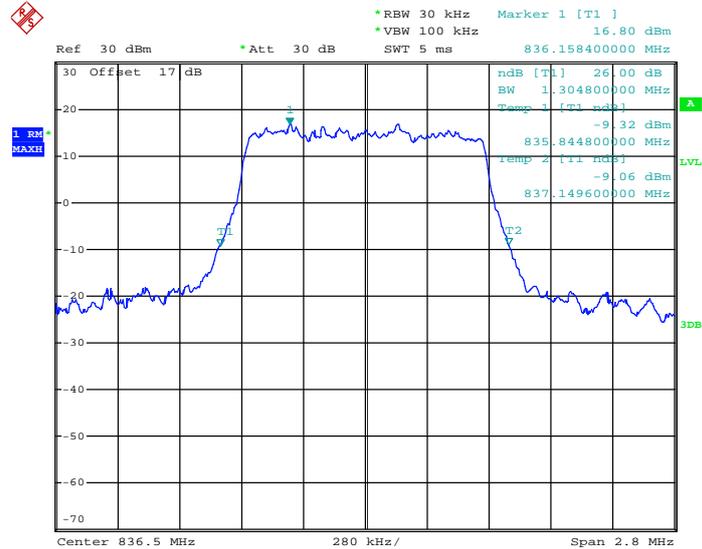
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20525
for RB Size 6, RB Offset 0**



Date: 25.FEB.2013 17:49:42

**26dB Bandwidth Plot on Channel 20525
for RB Size 6, RB Offset 0**

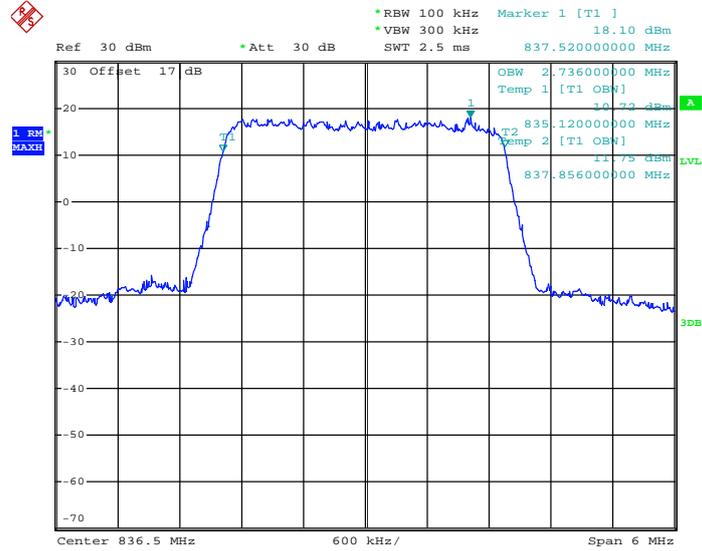


Date: 25.FEB.2013 15:20:30



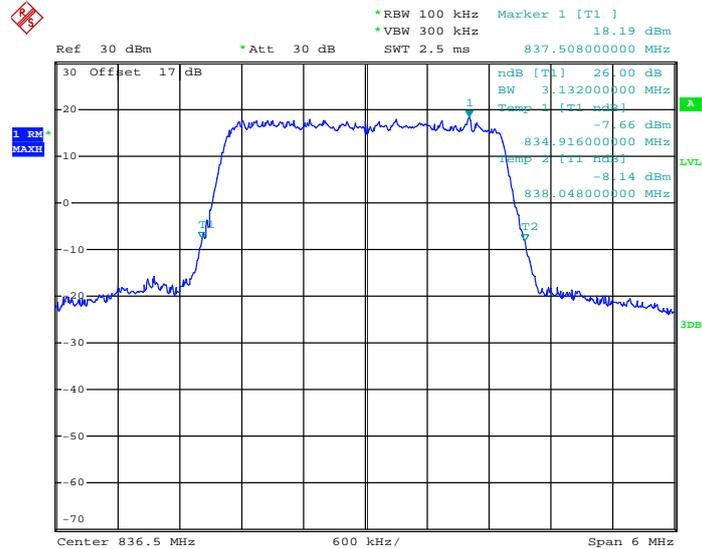
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20525
for RB Size 15, RB Offset 0**



Date: 25.FEB.2013 17:40:51

**26dB Bandwidth Plot on Channel 20525
for RB Size 15, RB Offset 0**

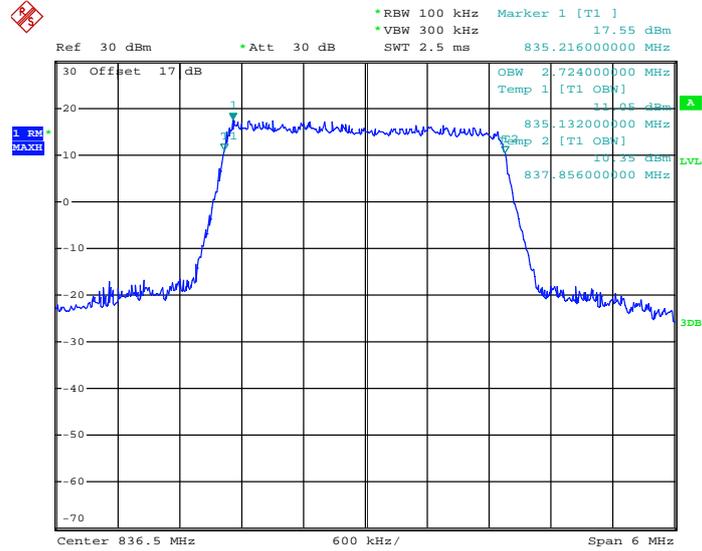


Date: 25.FEB.2013 15:22:18



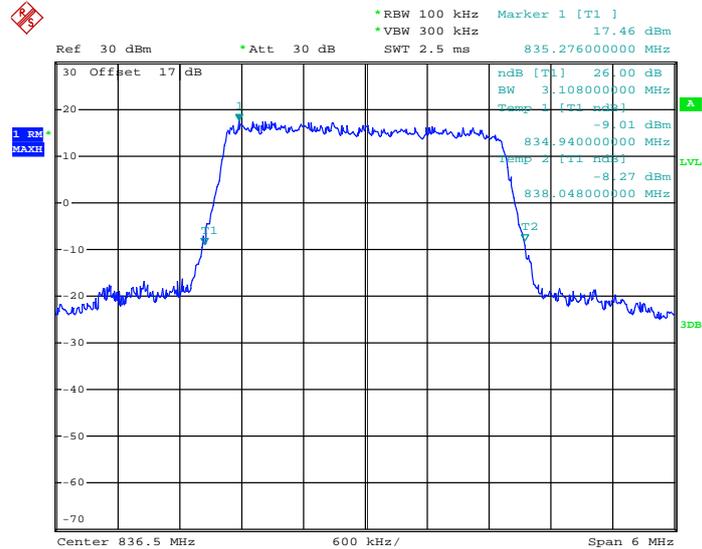
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20525
for RB Size 15, RB Offset 0**



Date: 25.FEB.2013 17:41:21

**26dB Bandwidth Plot on Channel 20525
for RB Size 15, RB Offset 0**

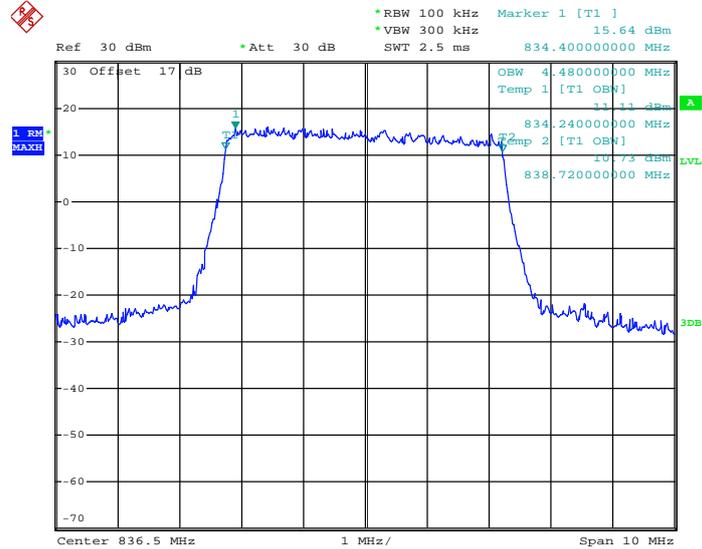


Date: 25.FEB.2013 15:22:52



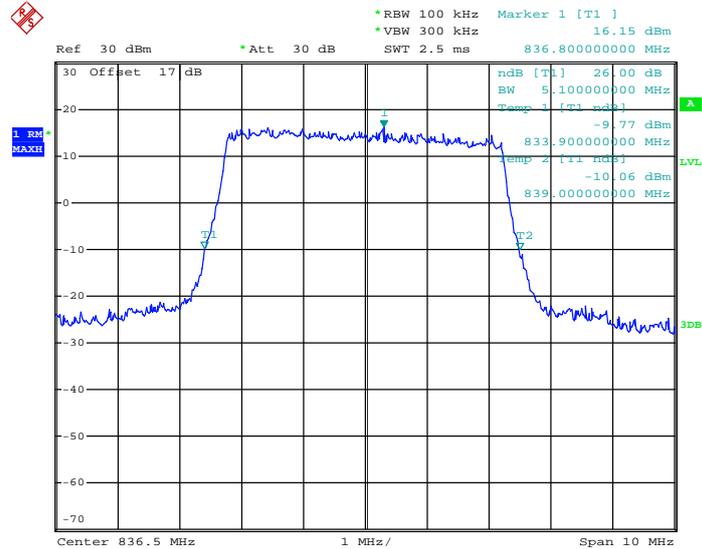
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20525
for RB Size 25, RB Offset 0**



Date: 25.FEB.2013 17:36:31

**26dB Bandwidth Plot on Channel 20525
for RB Size 25, RB Offset 0**

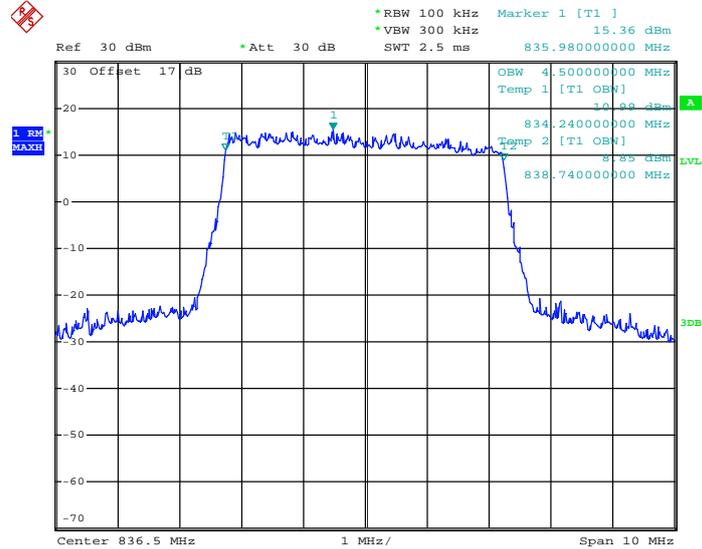


Date: 25.FEB.2013 15:24:38



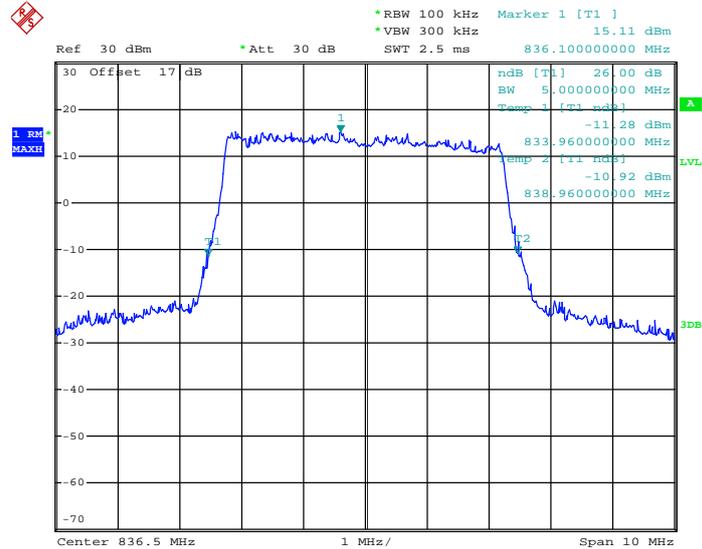
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20525
for RB Size 25, RB Offset 0**



Date: 25.FEB.2013 17:36:54

**26dB Bandwidth Plot on Channel 20525
for RB Size 25, RB Offset 0**

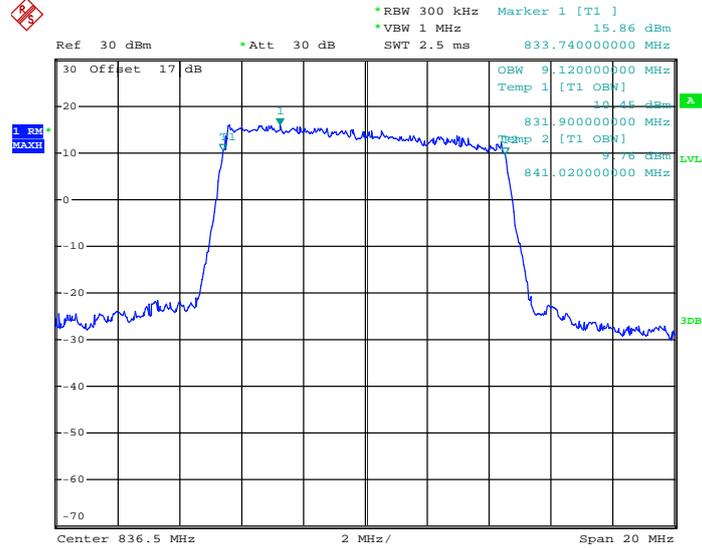


Date: 25.FEB.2013 15:23:55



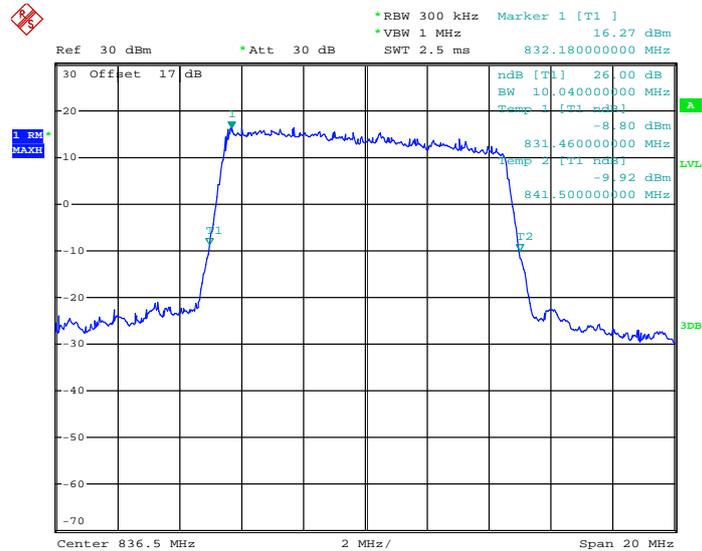
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 20525
for RB Size 50, RB Offset 0**



Date: 25.FEB.2013 17:30:09

**26dB Bandwidth Plot on Channel 20525
for RB Size 50, RB Offset 0**

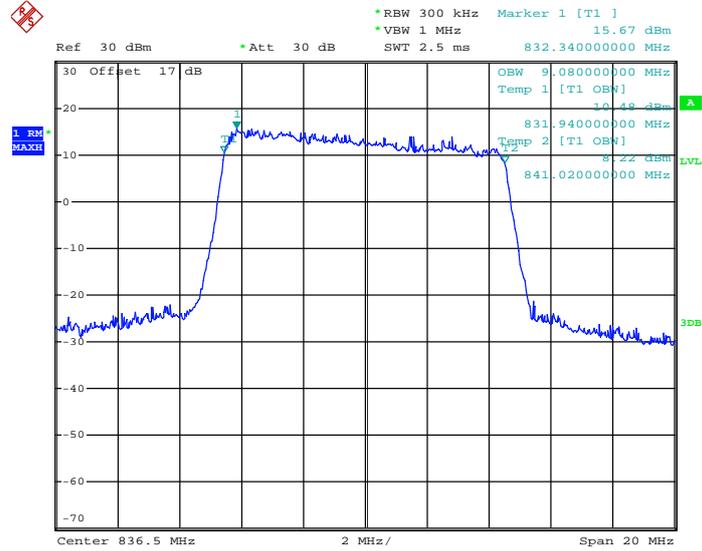


Date: 25.FEB.2013 15:25:40



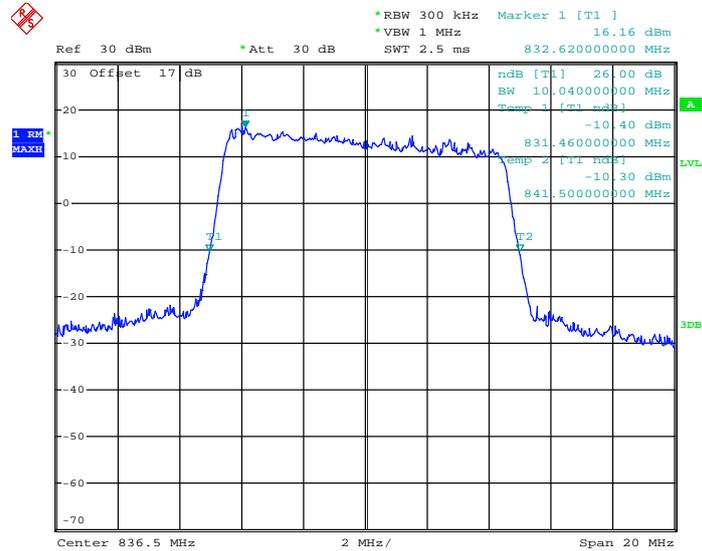
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 20525
for RB Size 50, RB Offset 0**



Date: 25.FEB.2013 17:30:46

**26dB Bandwidth Plot on Channel 20525
for RB Size 50, RB Offset 0**

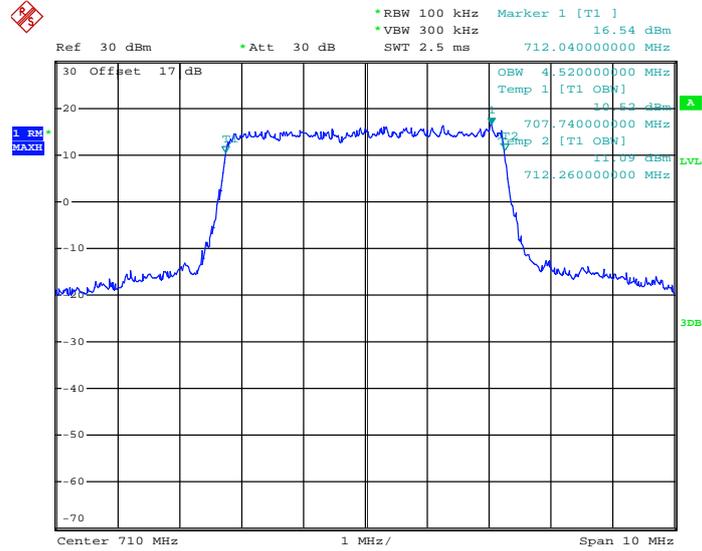


Date: 25.FEB.2013 15:26:32



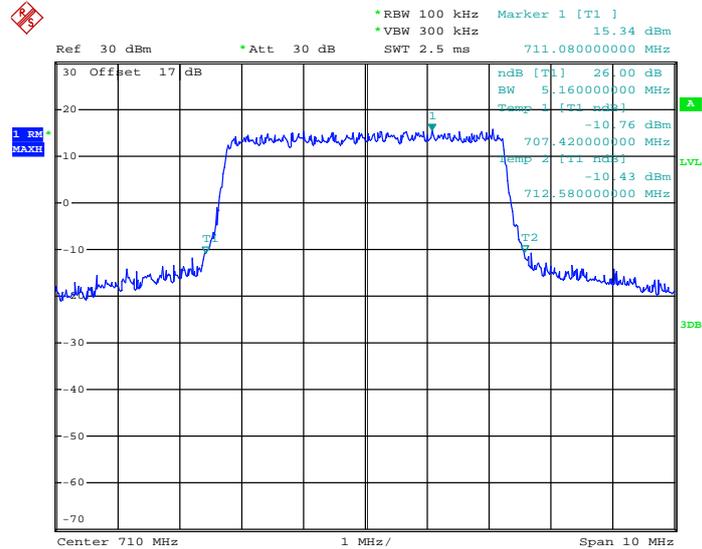
Band :	LTE Band 17	BW / Mod. :	5MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 23790
for RB Size 25, RB Offset 0**



Date: 26.FEB.2013 09:30:19

**26dB Bandwidth Plot on Channel 23790
for RB Size 25, RB Offset 0**

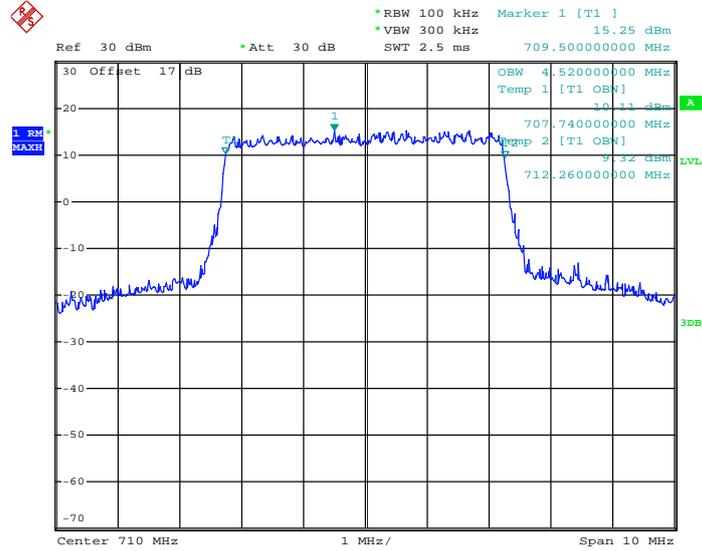


Date: 25.FEB.2013 15:29:14



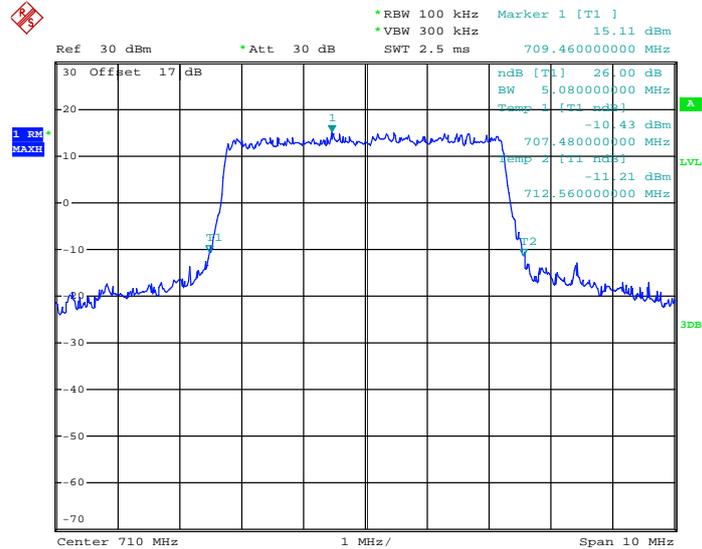
Band :	LTE Band 17	BW / Mod. :	5MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 23790
for RB Size 25, RB Offset 0**



Date: 26.FEB.2013 09:30:56

**26dB Bandwidth Plot on Channel 23790
for RB Size 25, RB Offset 0**

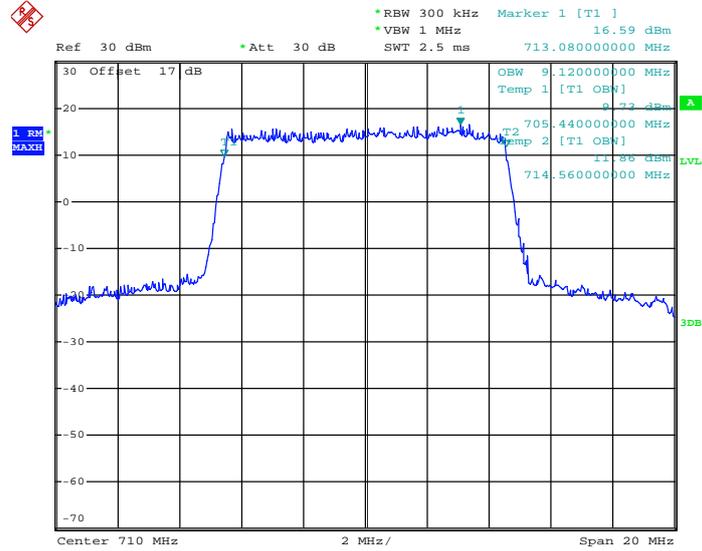


Date: 25.FEB.2013 15:30:10



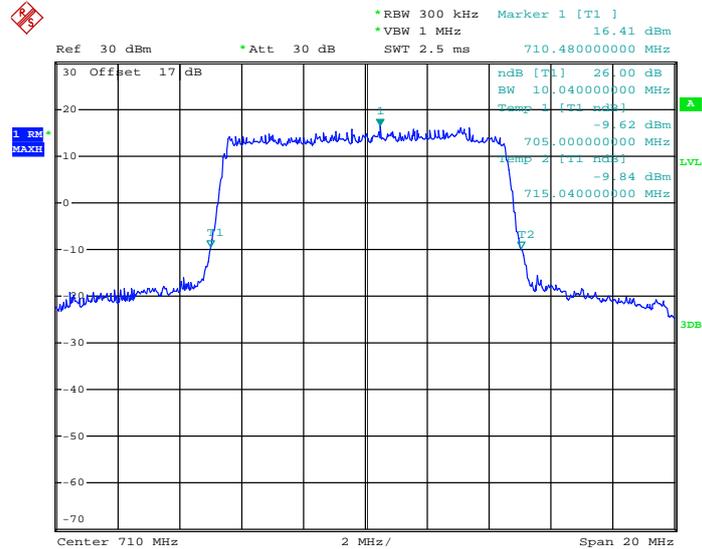
Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
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**99% Occupied Bandwidth Plot on Channel 23790
for RB Size 100, RB Offset 0**



Date: 26.FEB.2013 09:36:23

**26dB Bandwidth Plot on Channel 23790
for RB Size 100, RB Offset 0**

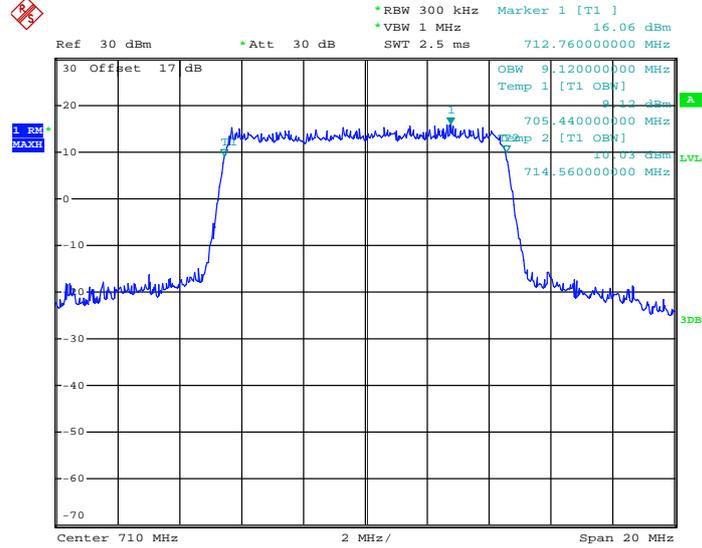


Date: 25.FEB.2013 15:28:18



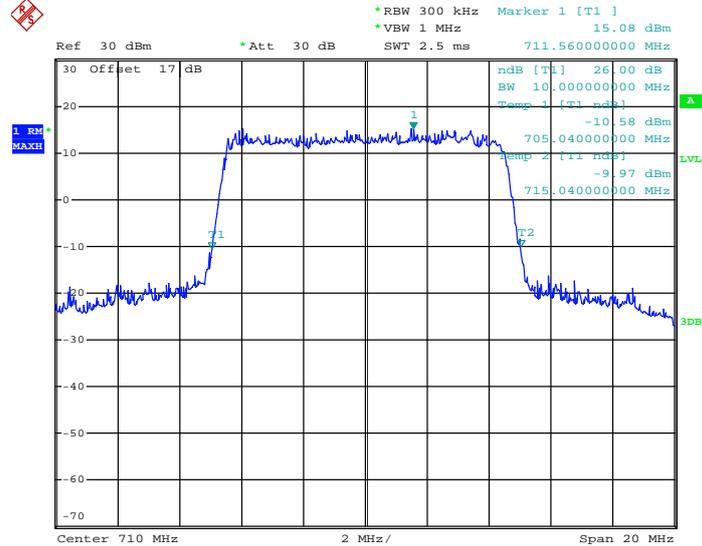
Band :	LTE Band 17	BW / Mod. :	10MHz / 16QAM
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**99% Occupied Bandwidth Plot on Channel 23790
for RB Size 100, RB Offset 0**



Date: 26.FEB.2013 09:37:14

**26dB Bandwidth Plot on Channel 23790
for RB Size 100, RB Offset 0**



Date: 25.FEB.2013 15:27:42

3.4 Band Edge Measurement

3.4.1 Limit

For operations in band 2 and band 4, the FCC limit is
 $43 + 10\log_{10}(P[\text{Watts}]) \text{ dB} = -13 \text{ dBm}$ in a 1 MHz bandwidth.

For operations in band 5, the FCC limit is
 $43 + 10\log_{10}(P[\text{Watts}]) \text{ dB} = -13 \text{ dBm}$ in a 100 kHz bandwidth.

For operations in band 17, the FCC limit is
 $43 + 10\log_{10}(P[\text{Watts}]) \text{ dB} = -13 \text{ dBm}$ in a 100 KHz bandwidth.

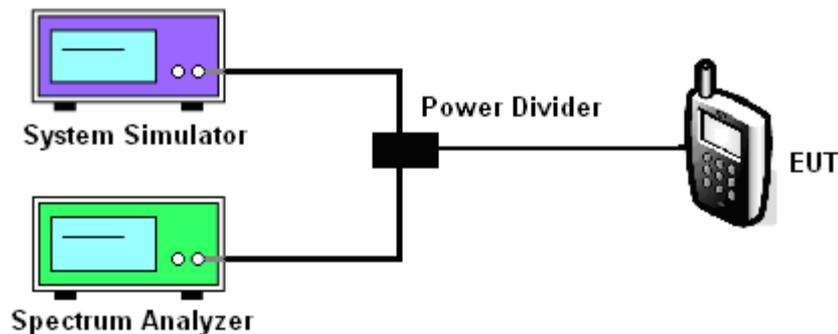
3.4.2 Measuring Instruments

See list of measuring instruments 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.

3.4.4 Test Setup

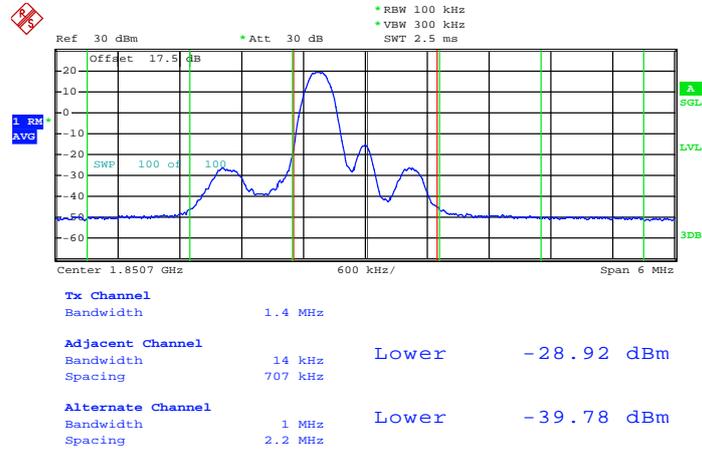




3.4.5 Test Result (Plots) of Conducted Band Edge

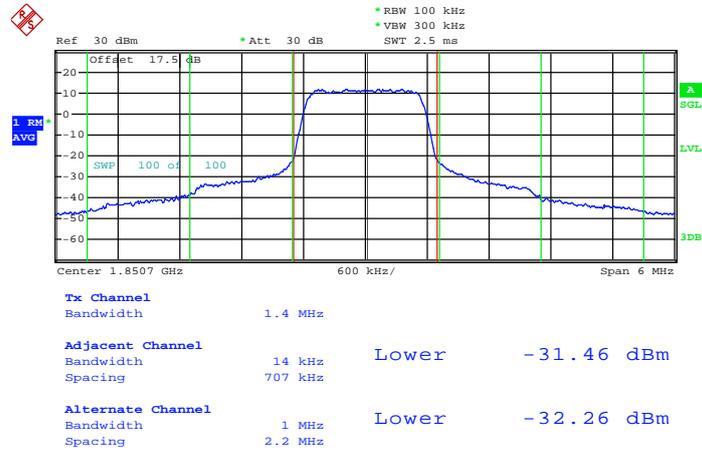
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



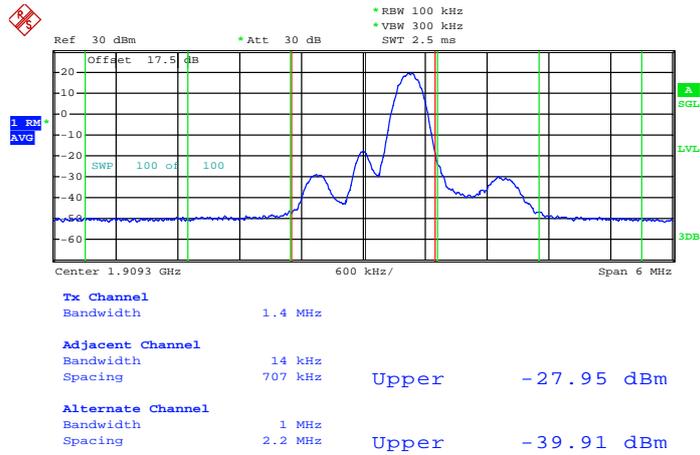
Date: 15.MAR.2013 13:51:25

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



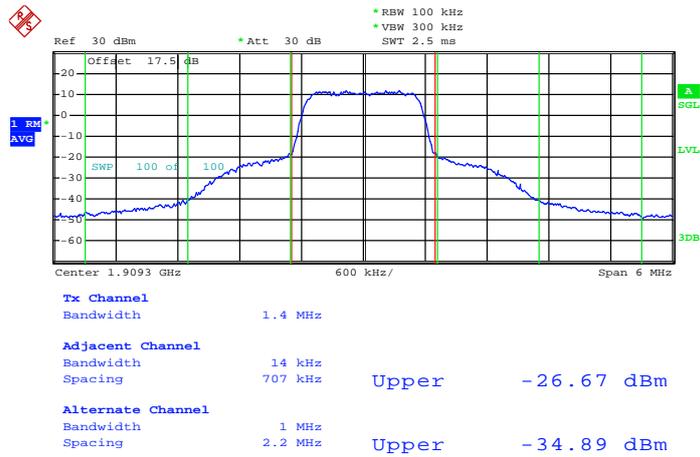
Date: 15.MAR.2013 13:52:42

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



Date: 15.MAR.2013 13:49:42

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

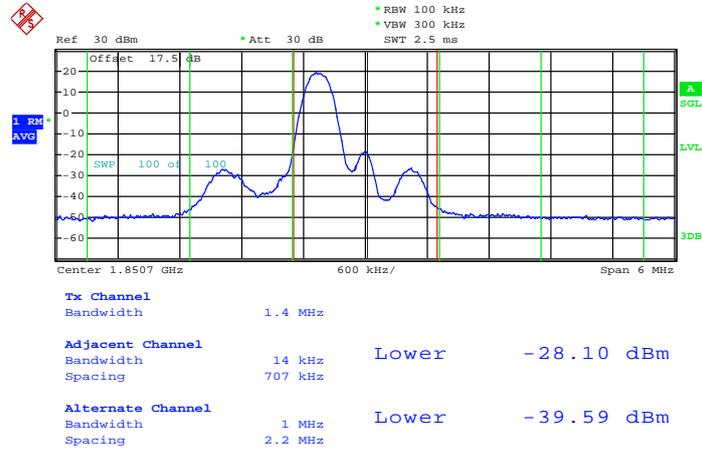


Date: 15.MAR.2013 13:48:24



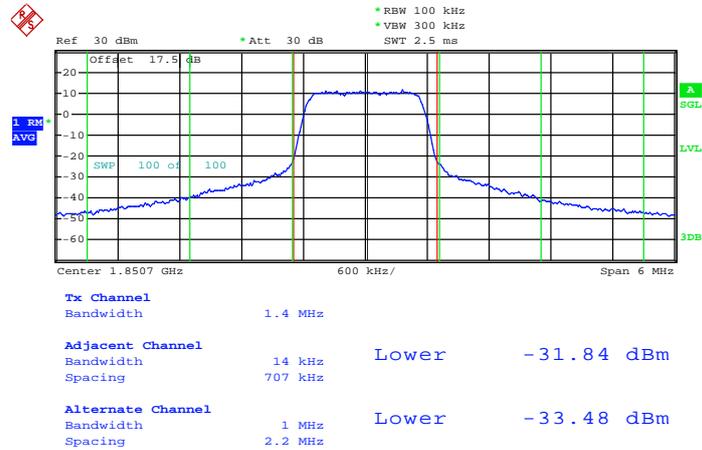
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:51:45

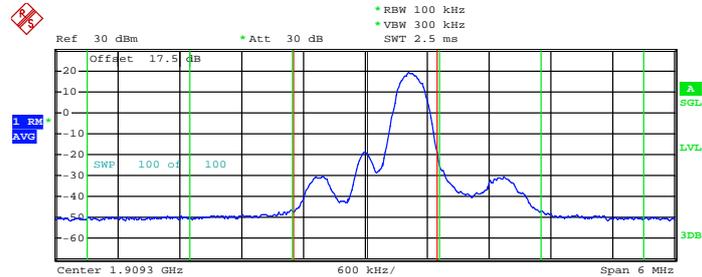
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 15.MAR.2013 13:52:21



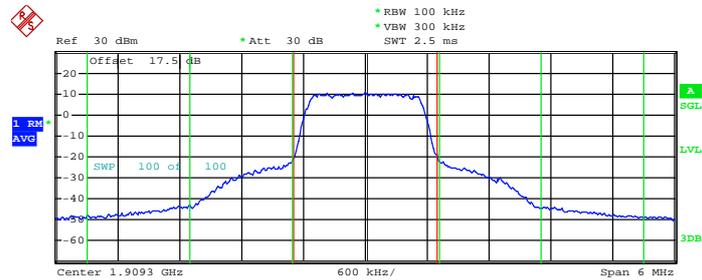
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-28.30 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-39.91 dBm

Date: 15.MAR.2013 13:49:23

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



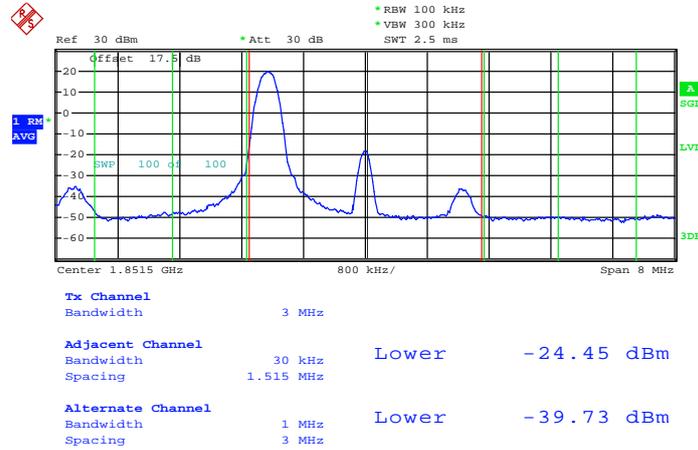
Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-28.68 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-36.74 dBm

Date: 15.MAR.2013 13:48:59



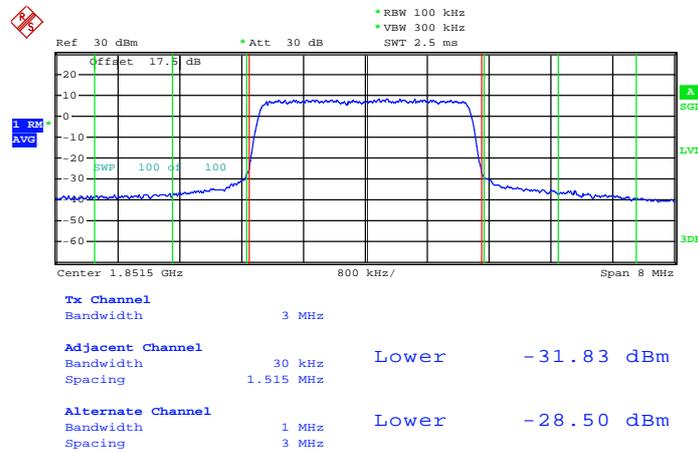
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:56:08

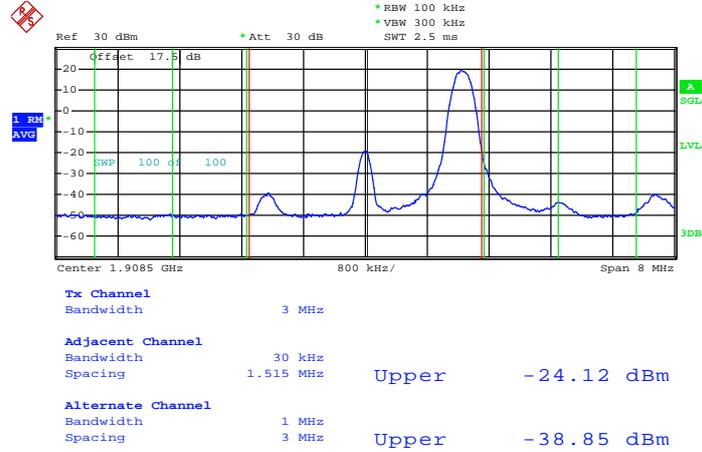
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 15.MAR.2013 13:55:12

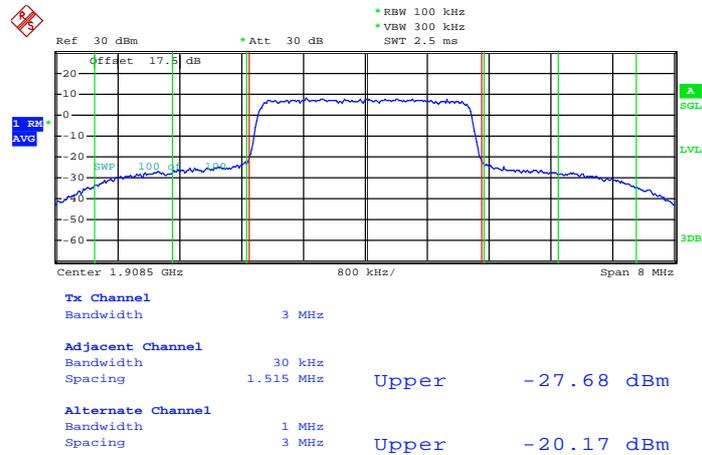


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 15.MAR.2013 13:57:18

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

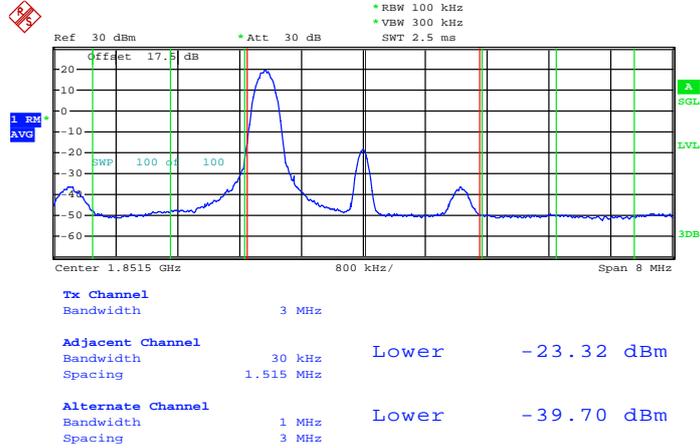


Date: 15.MAR.2013 13:58:18



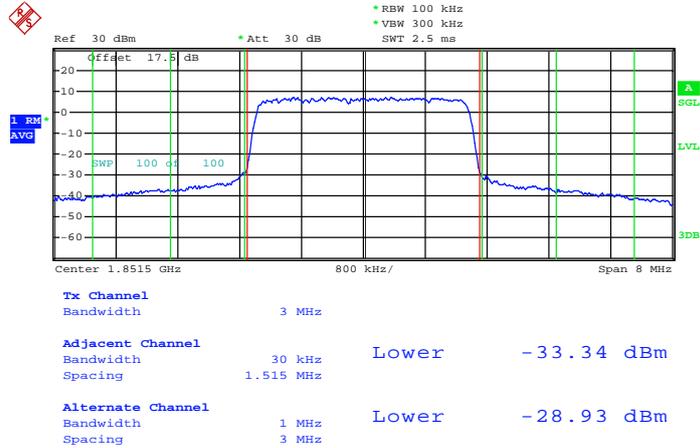
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:55:53

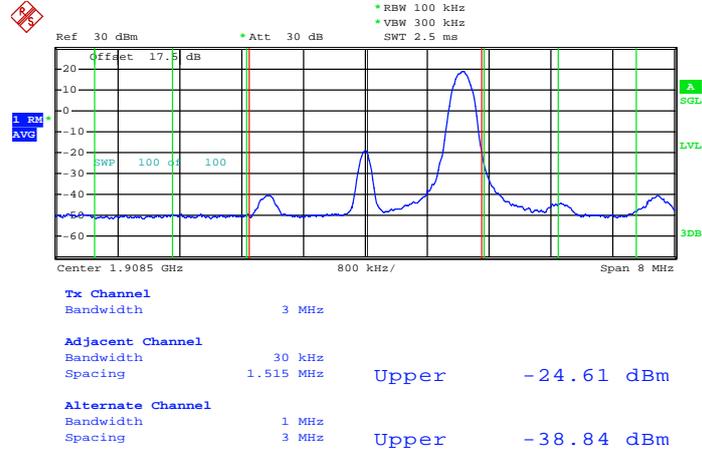
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 15.MAR.2013 13:55:31

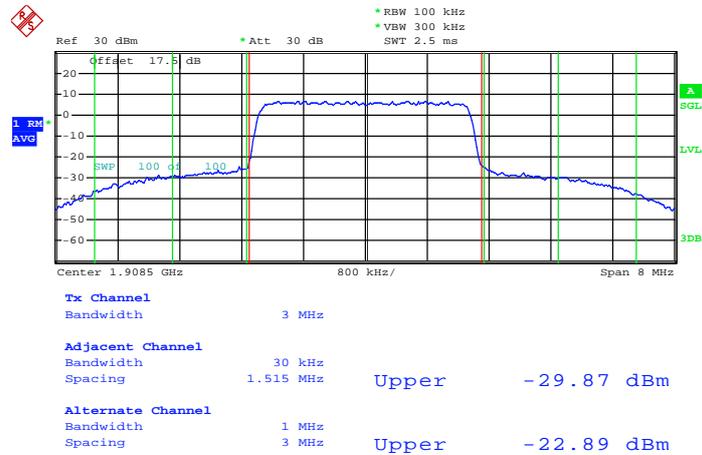


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 15.MAR.2013 13:57:37

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

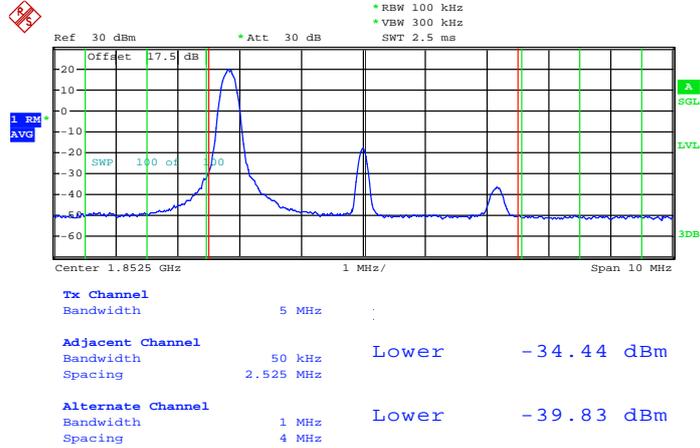


Date: 15.MAR.2013 13:58:02



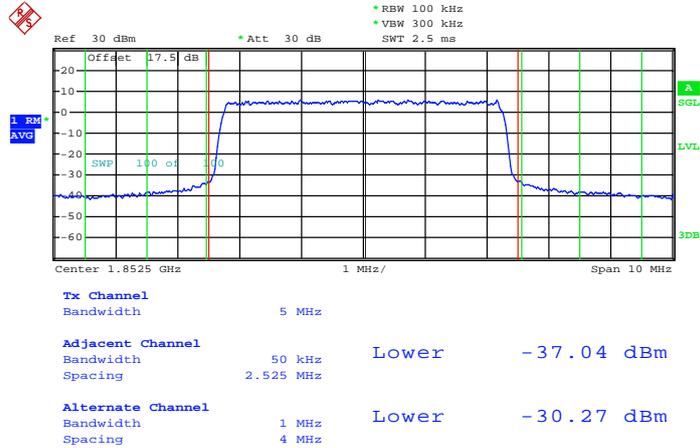
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 14:02:56

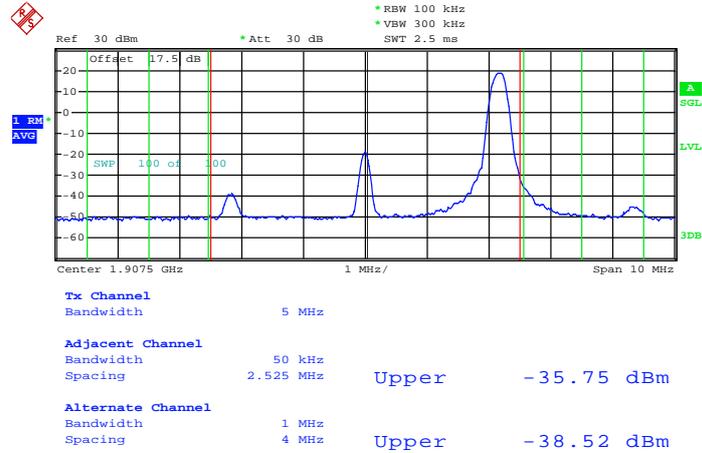
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 15.MAR.2013 14:03:56

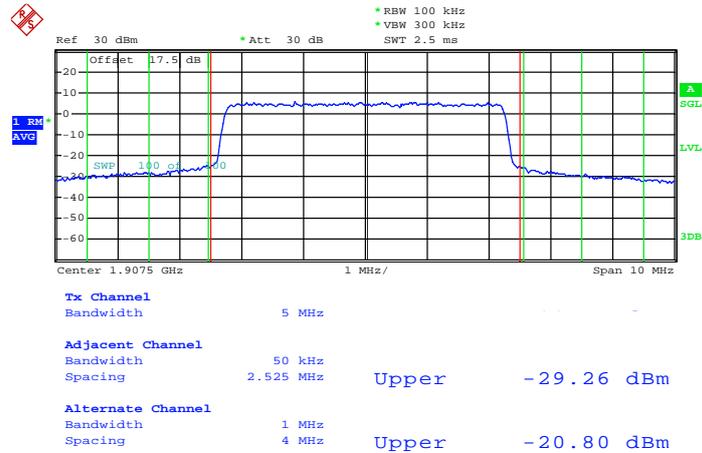


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 15.MAR.2013 14:02:08

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

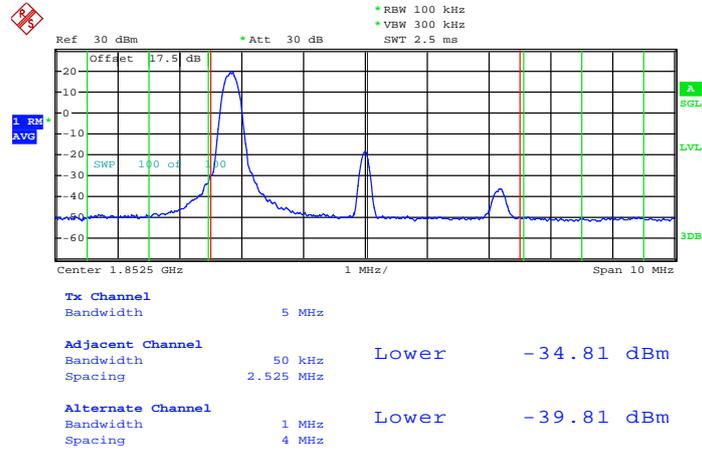


Date: 15.MAR.2013 14:01:04



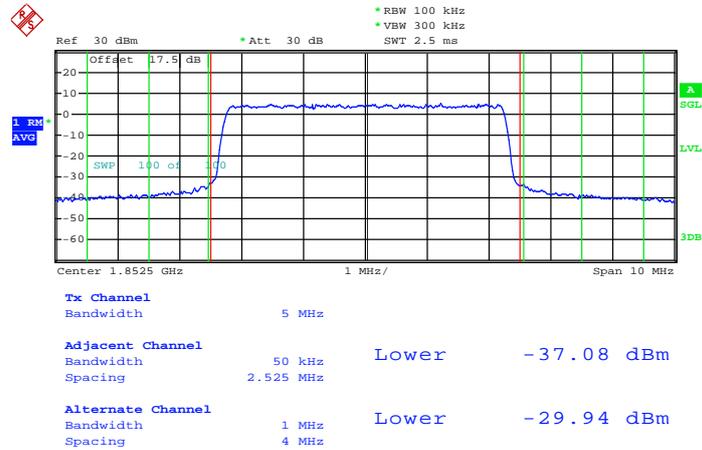
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 14:03:14

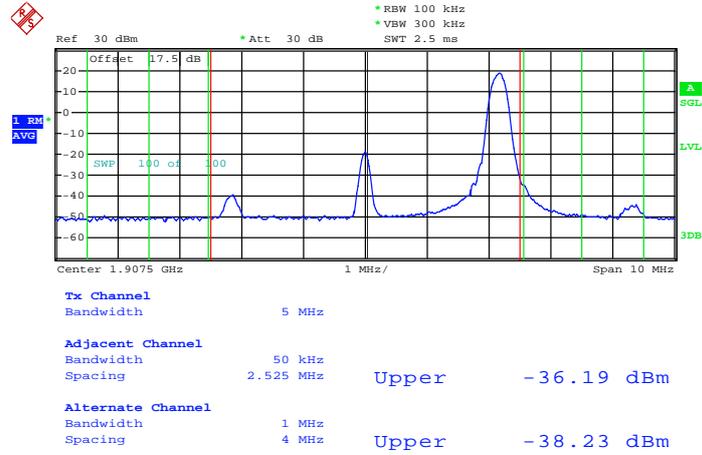
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 15.MAR.2013 14:03:37

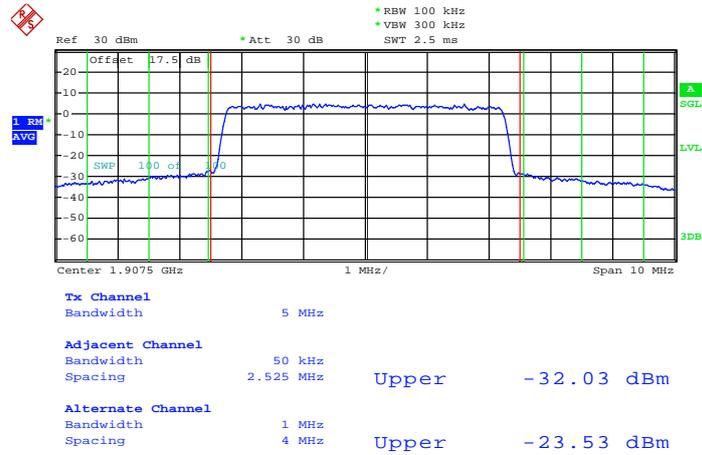


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 15.MAR.2013 14:01:48

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

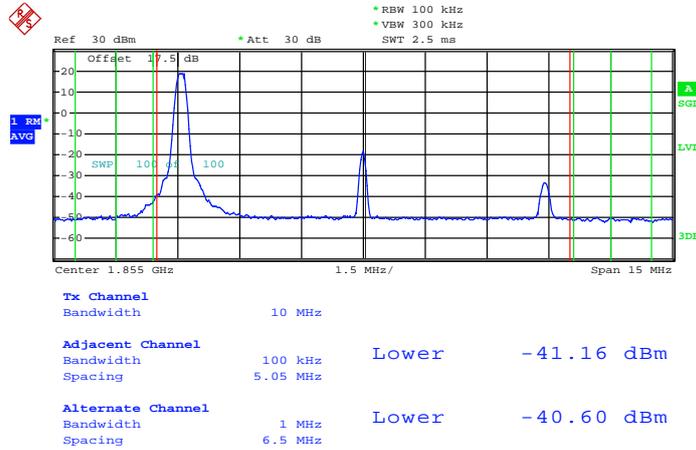


Date: 15.MAR.2013 14:01:23



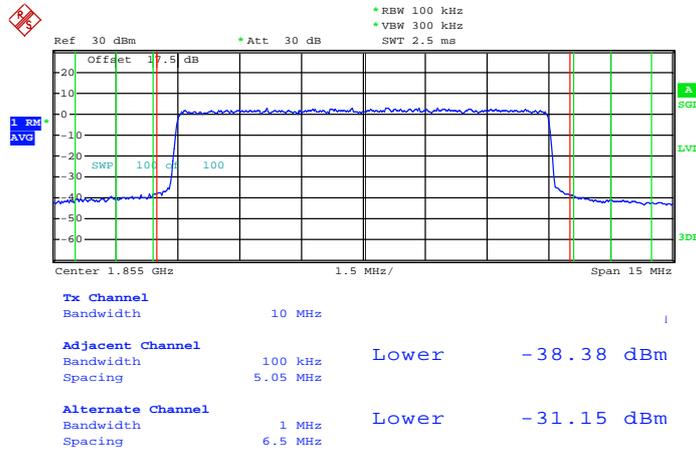
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 14:08:00

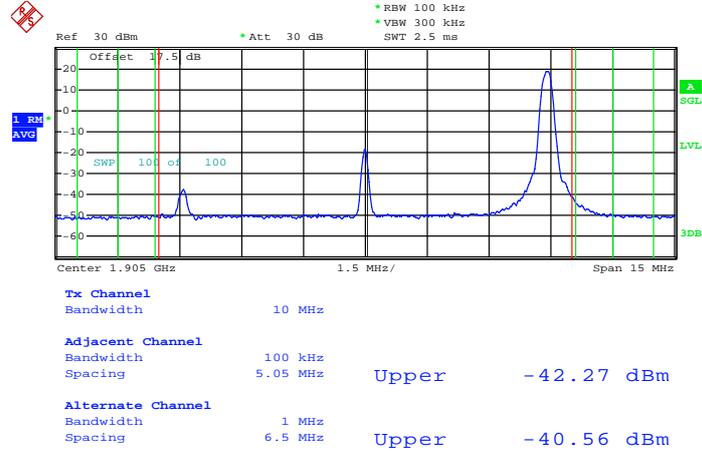
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 15.MAR.2013 14:07:03

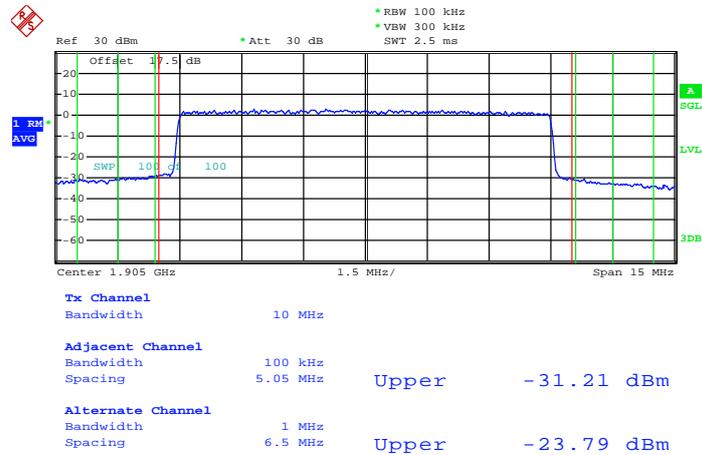


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 15.MAR.2013 14:09:00

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

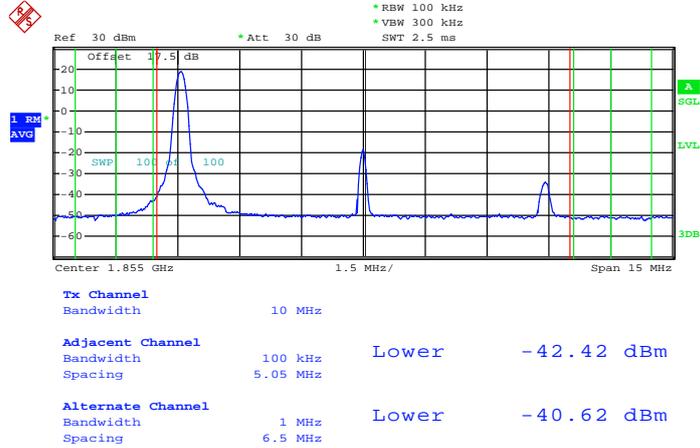


Date: 15.MAR.2013 14:09:59



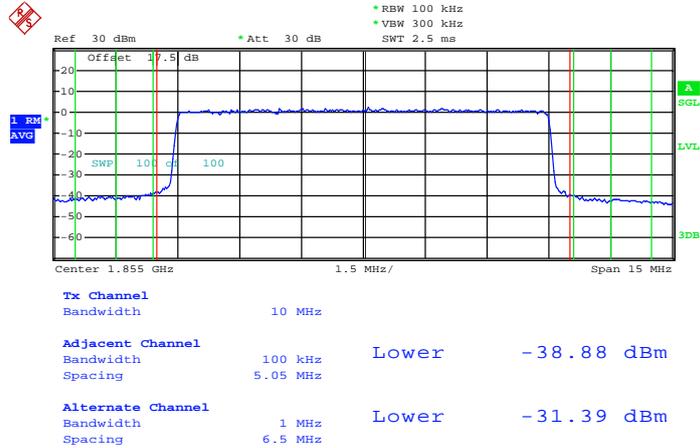
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 14:07:43

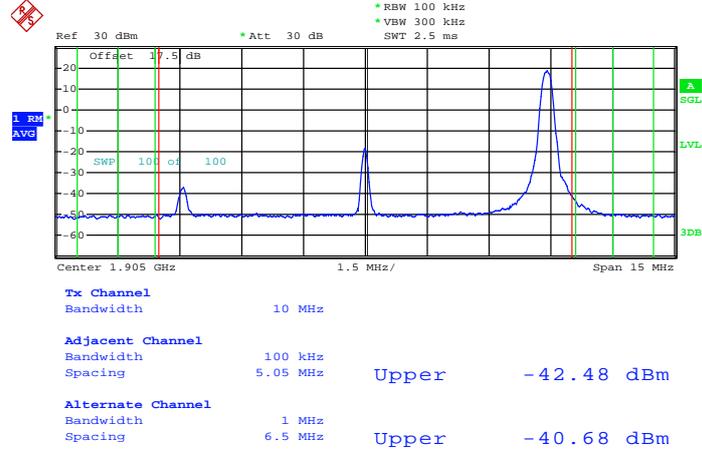
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 15.MAR.2013 14:07:22

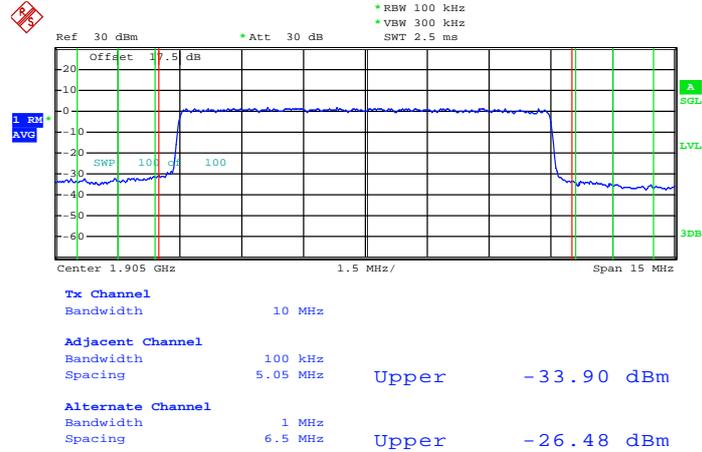


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 15.MAR.2013 14:09:17

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

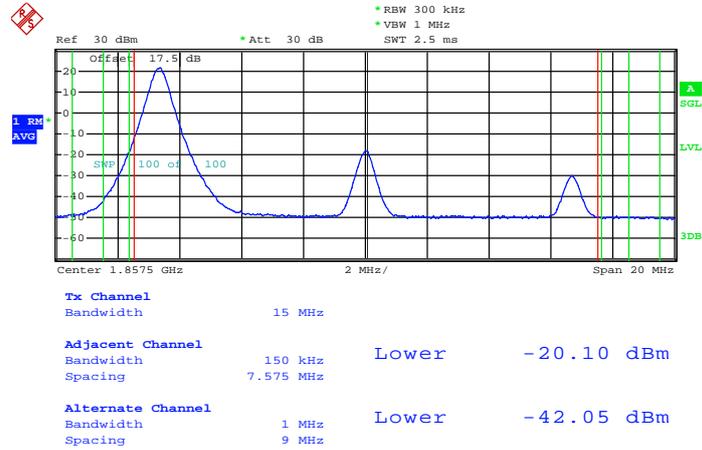


Date: 15.MAR.2013 14:09:41



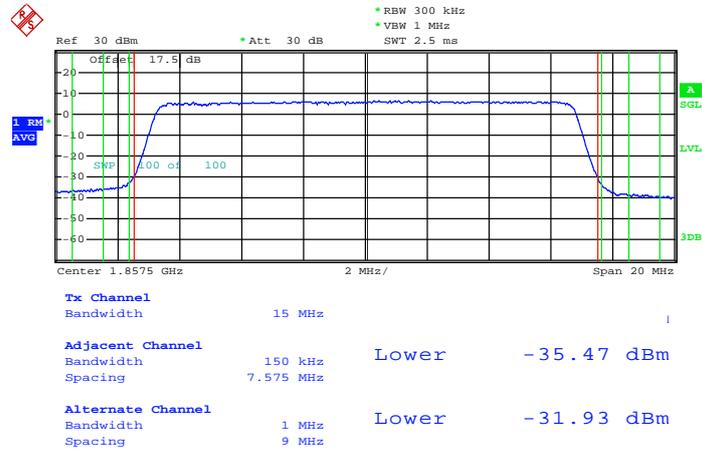
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 14:53:00

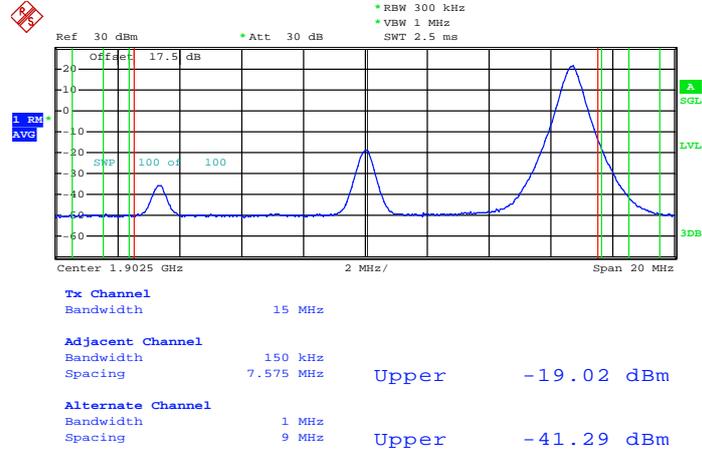
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 15.MAR.2013 14:54:11

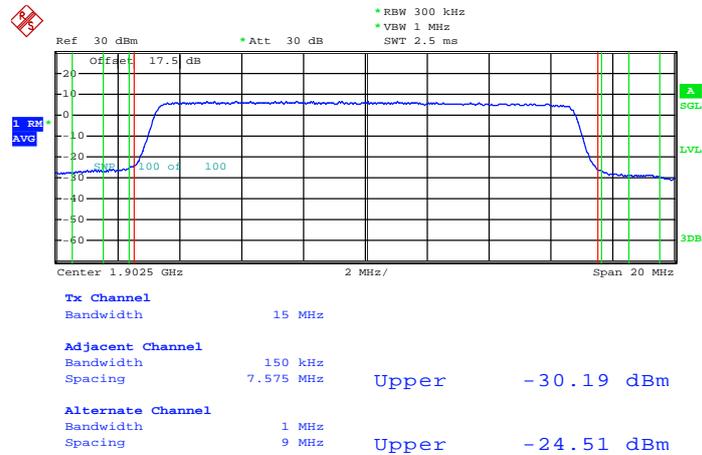


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



Date: 15.MAR.2013 14:52:08

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

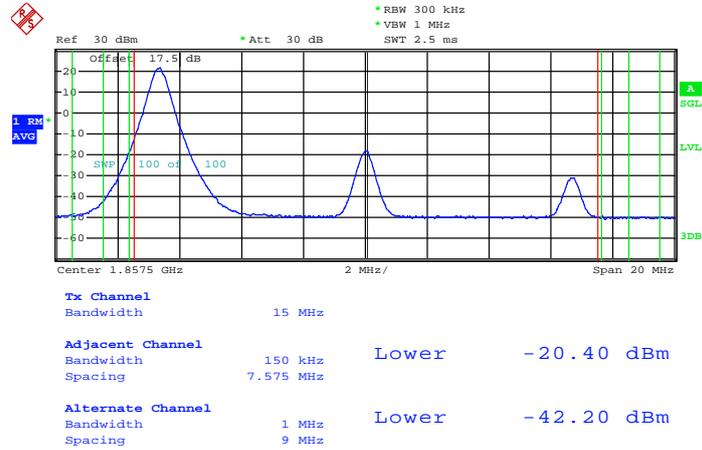


Date: 15.MAR.2013 14:51:04



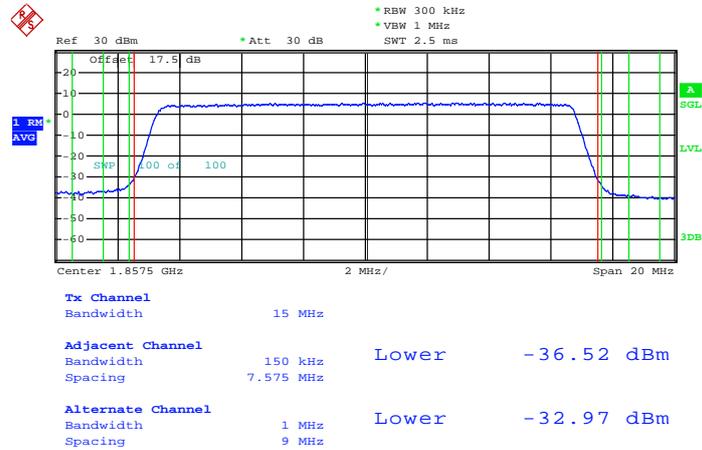
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 14:53:24

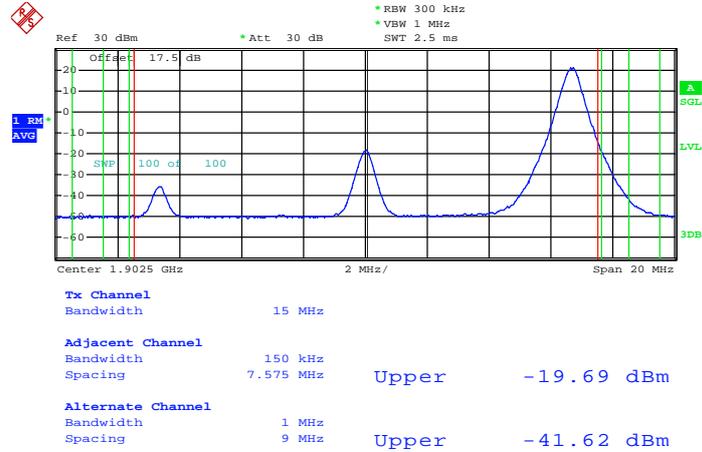
Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



Date: 15.MAR.2013 14:53:57

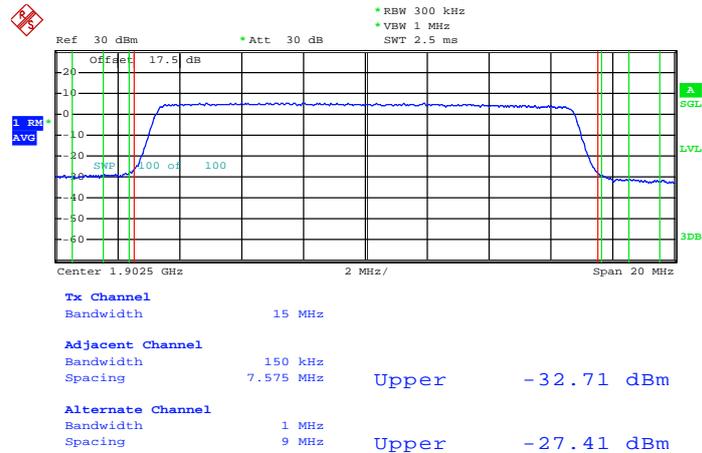


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



Date: 15.MAR.2013 14:51:51

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

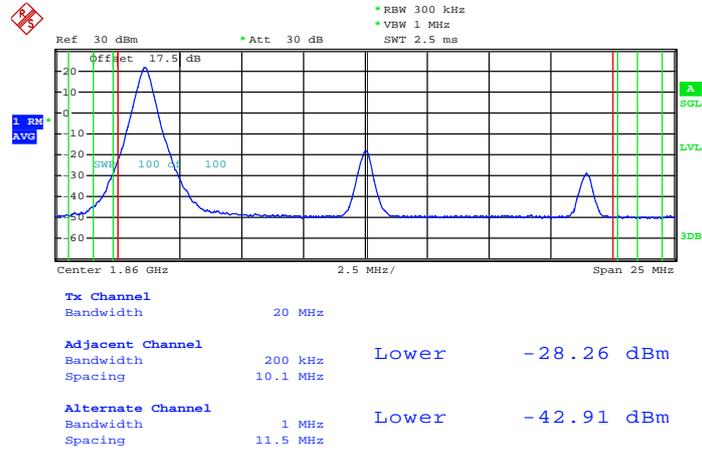


Date: 15.MAR.2013 14:51:26



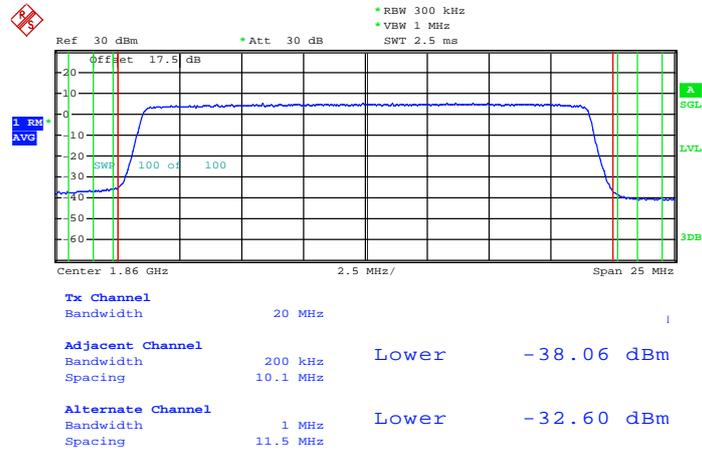
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 14:56:51

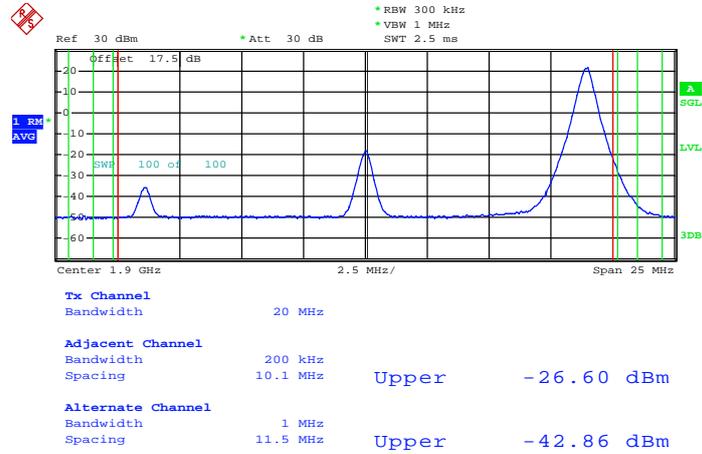
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 15.MAR.2013 14:55:52

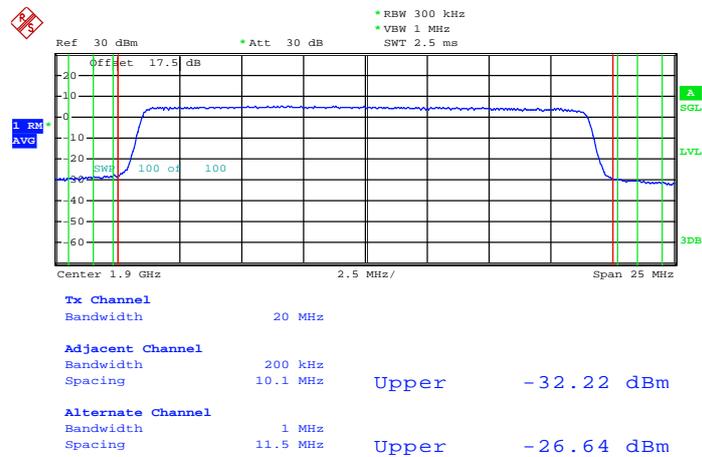


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



Date: 15.MAR.2013 14:57:35

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

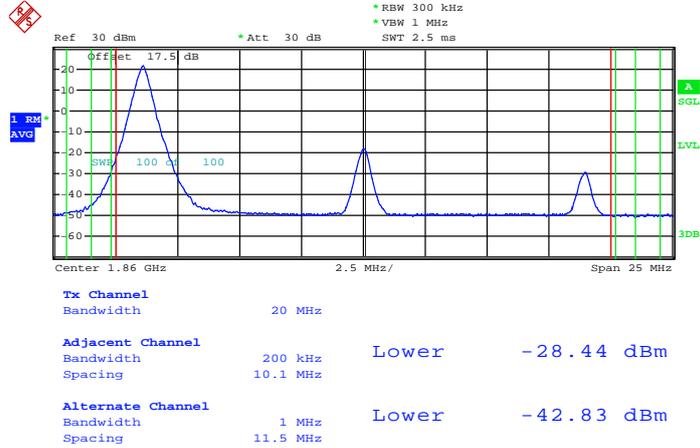


Date: 15.MAR.2013 14:58:33



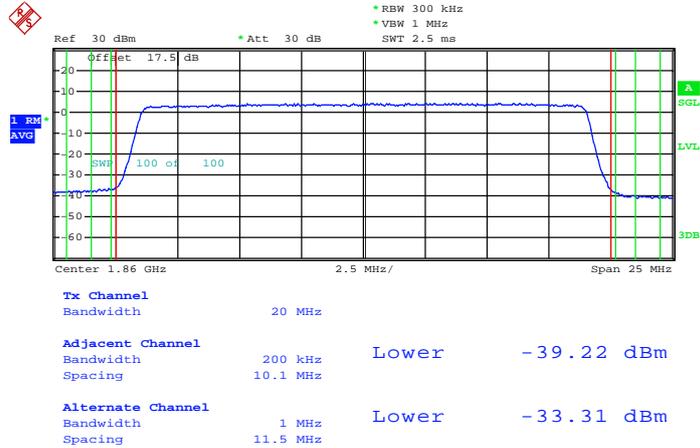
Band :	LTE Band 2	BW / Mod. :	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 14:56:35

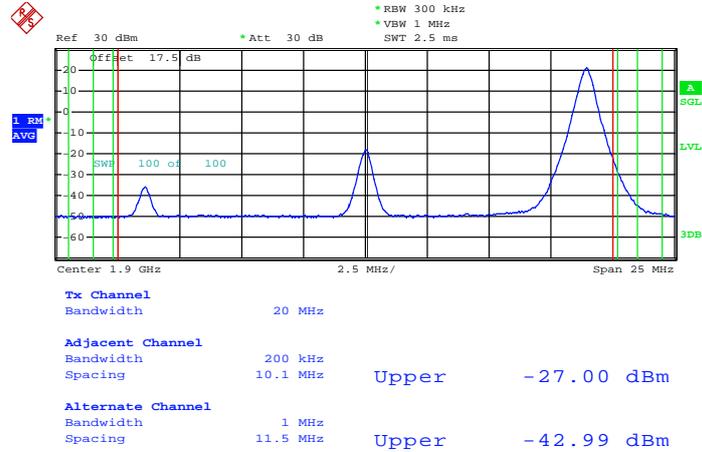
Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



Date: 15.MAR.2013 14:56:08

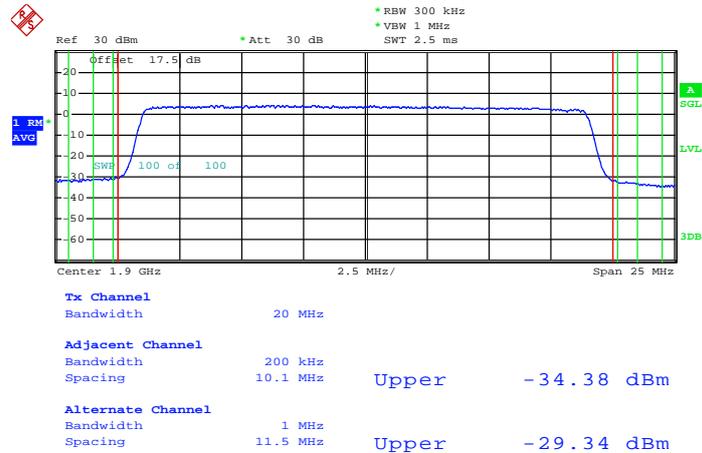


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



Date: 15.MAR.2013 14:57:58

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

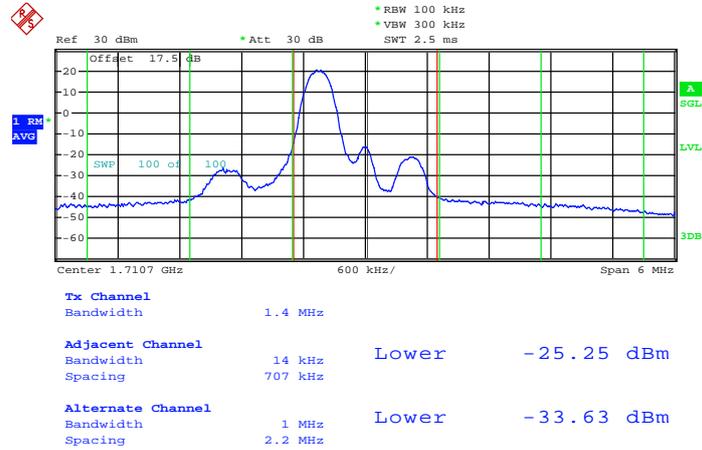


Date: 15.MAR.2013 14:58:19



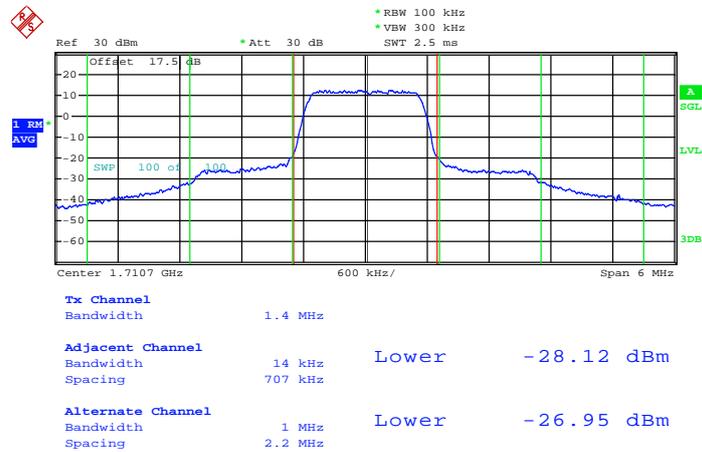
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:03:16

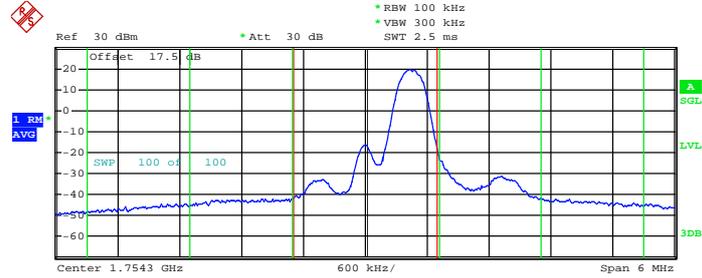
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 15.MAR.2013 13:02:15



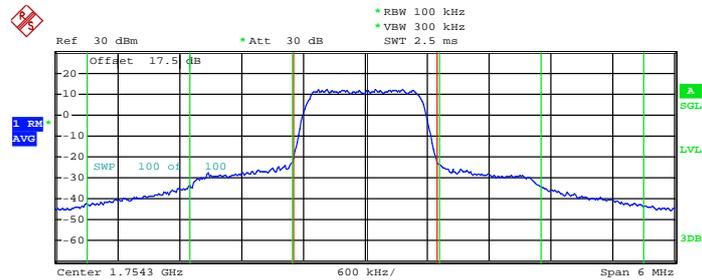
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-27.25 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-34.05 dBm

Date: 15.MAR.2013 13:04:18

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



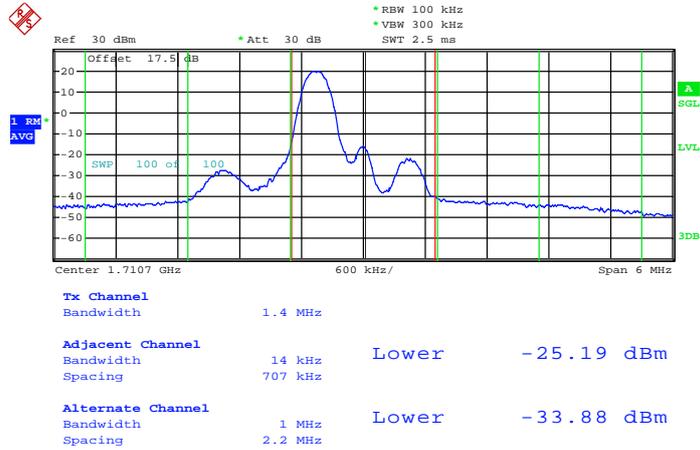
Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-31.64 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-29.06 dBm

Date: 15.MAR.2013 13:05:17



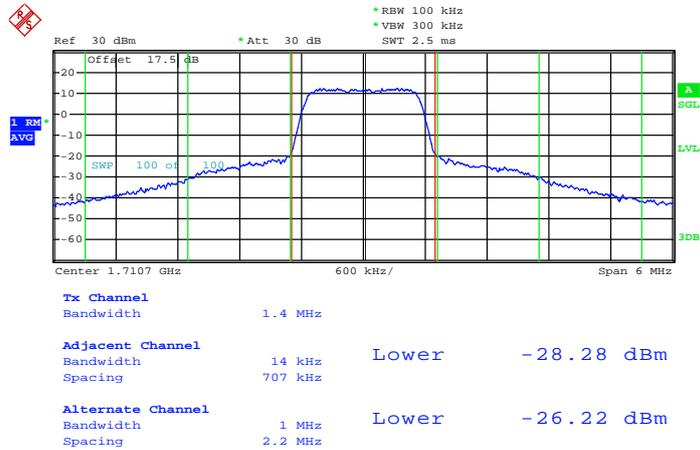
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:02:58

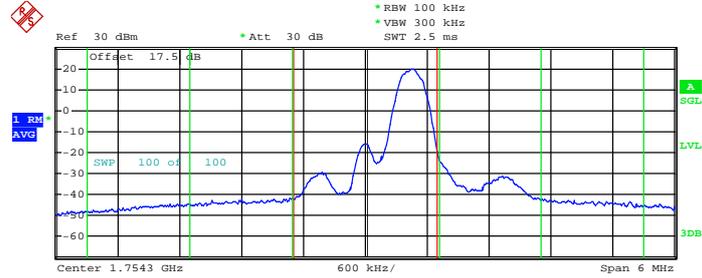
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 15.MAR.2013 13:02:33



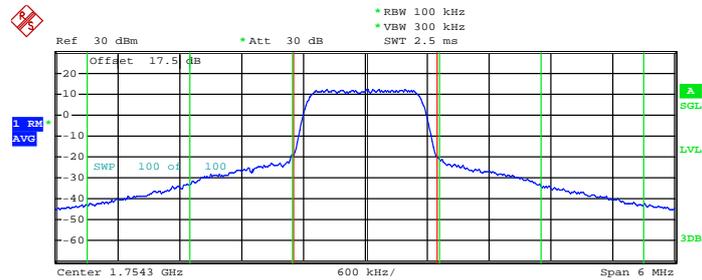
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-28.52 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-34.20 dBm

Date: 15.MAR.2013 13:04:39

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



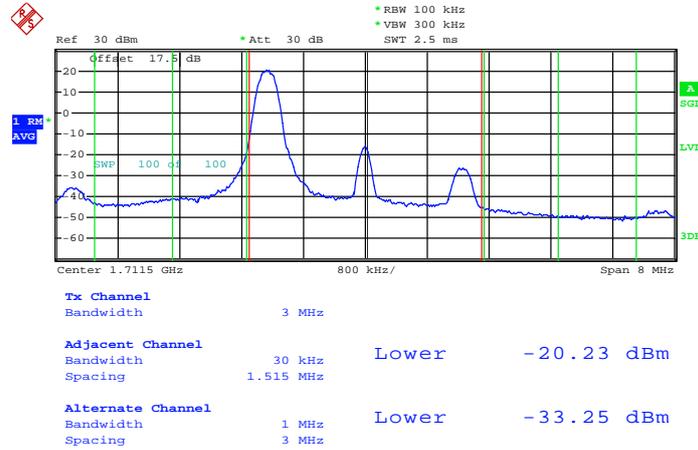
Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-29.59 dBm
Alternate Channel			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-27.89 dBm

Date: 15.MAR.2013 13:04:59



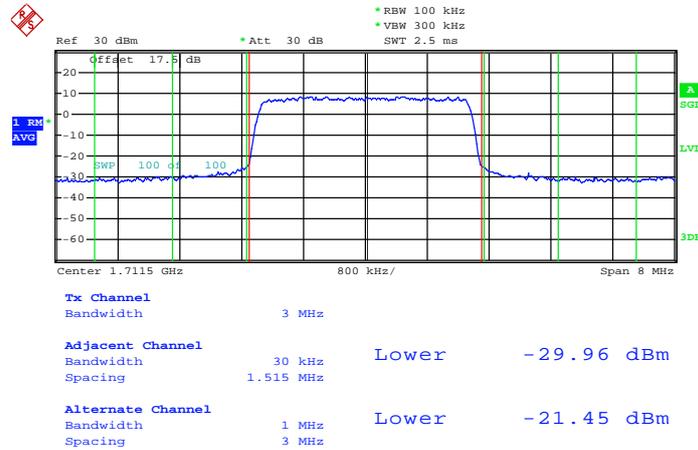
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:10:37

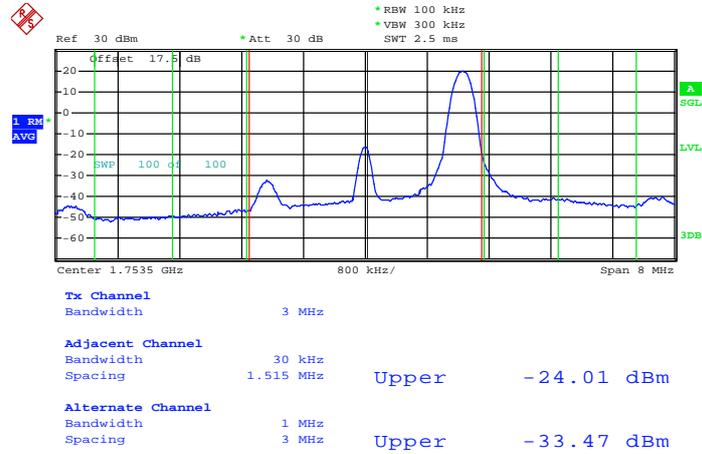
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 15.MAR.2013 13:11:47

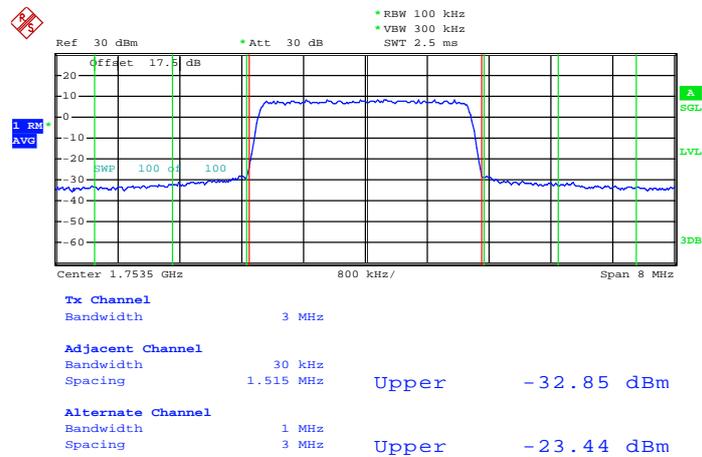


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 15.MAR.2013 13:09:44

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

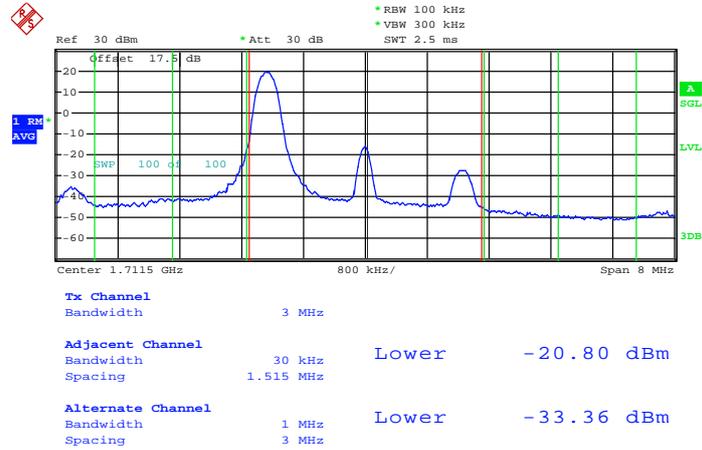


Date: 15.MAR.2013 13:08:25



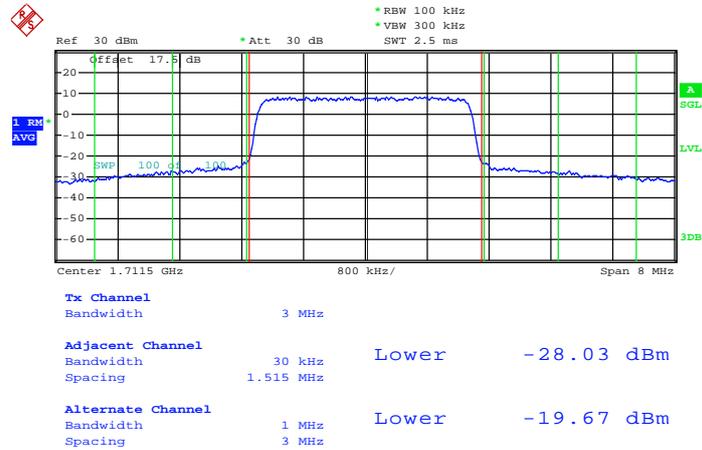
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:11:08

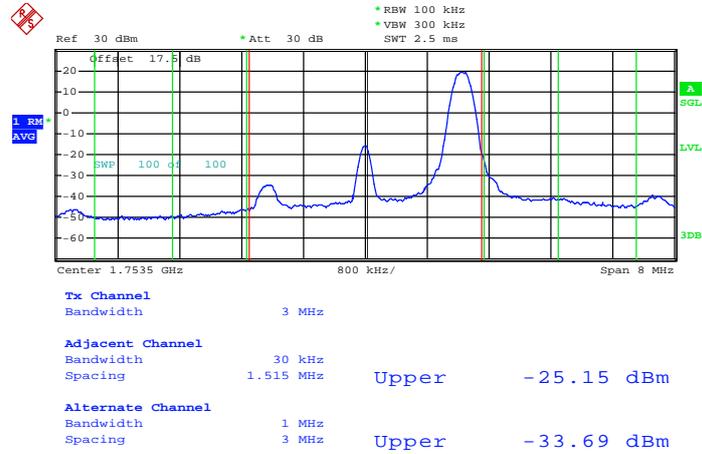
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 15.MAR.2013 13:11:30

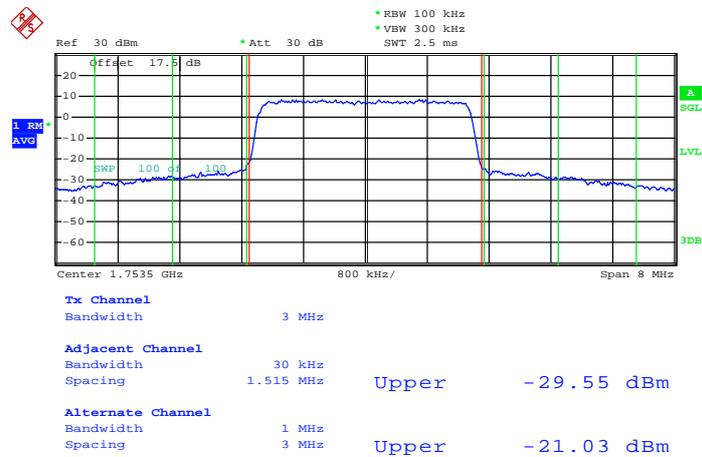


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 15.MAR.2013 13:09:28

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

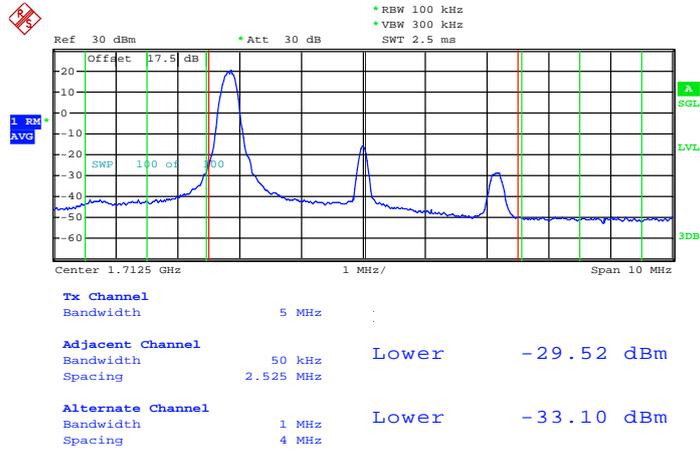


Date: 15.MAR.2013 13:08:54



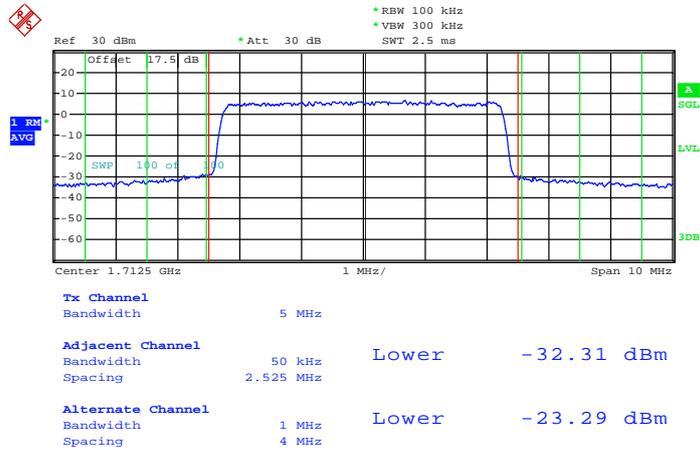
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:17:18

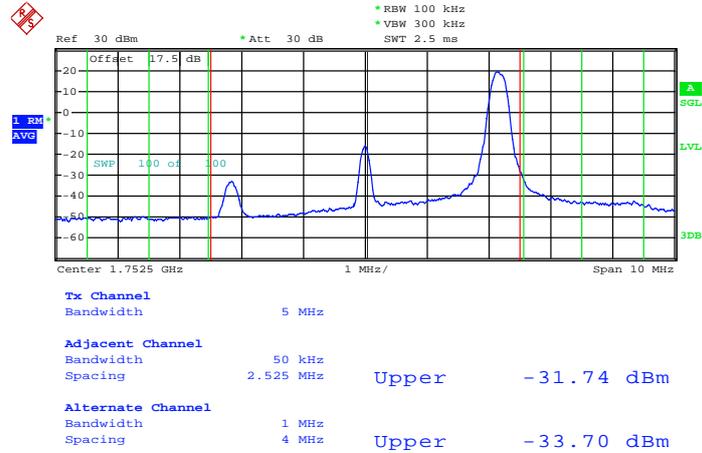
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 15.MAR.2013 13:15:44

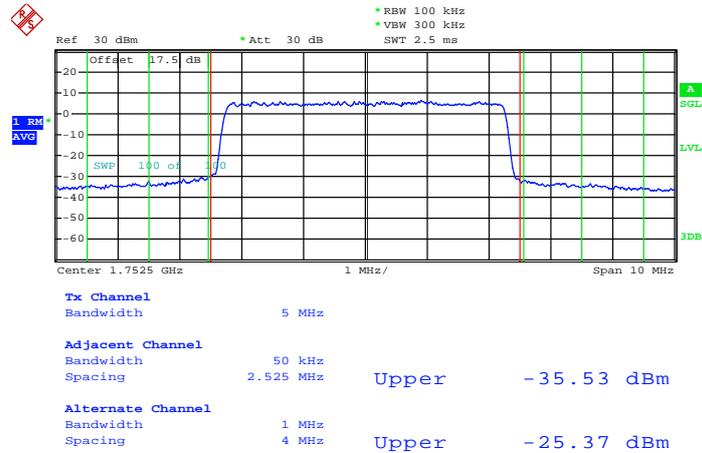


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 15.MAR.2013 13:18:10

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

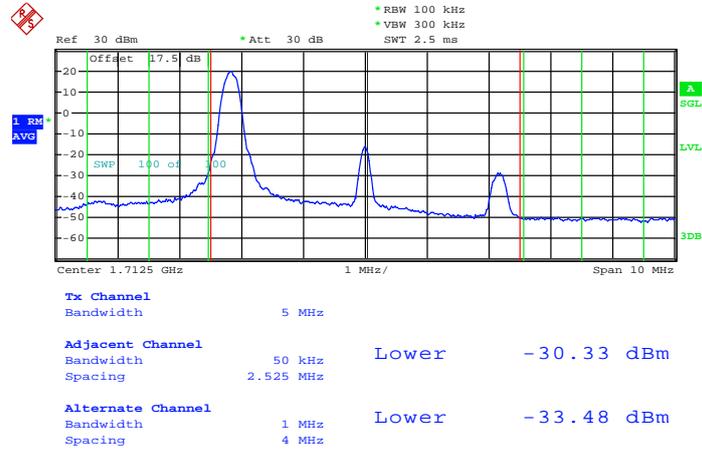


Date: 15.MAR.2013 13:19:14



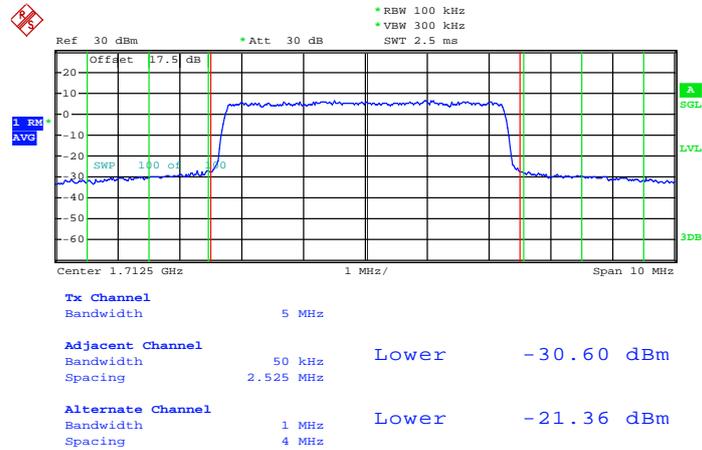
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:16:43

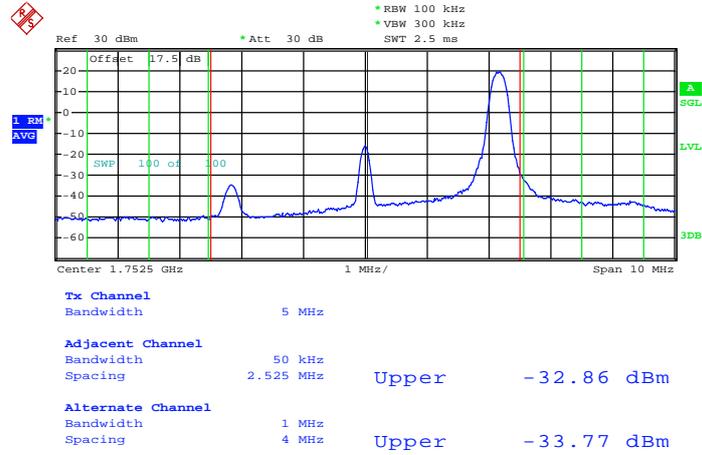
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 15.MAR.2013 13:16:10

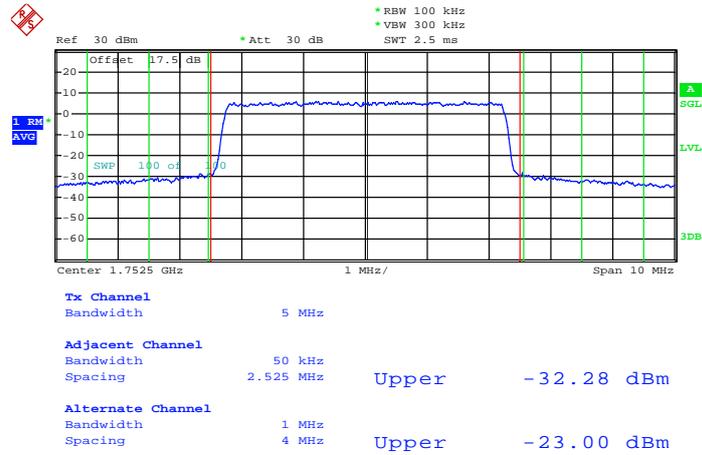


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 15.MAR.2013 13:18:30

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

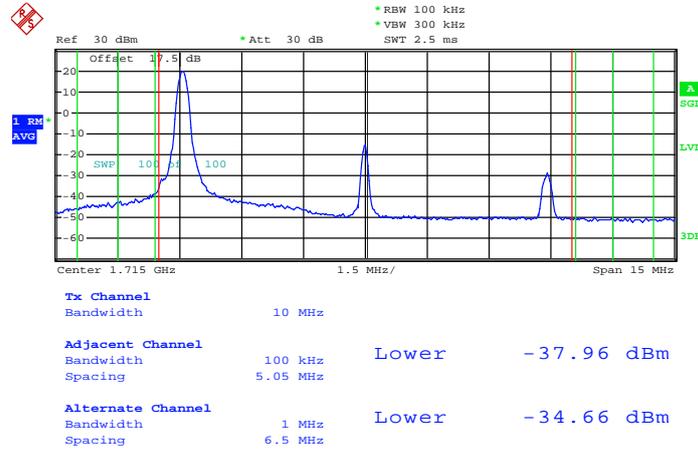


Date: 15.MAR.2013 13:18:55



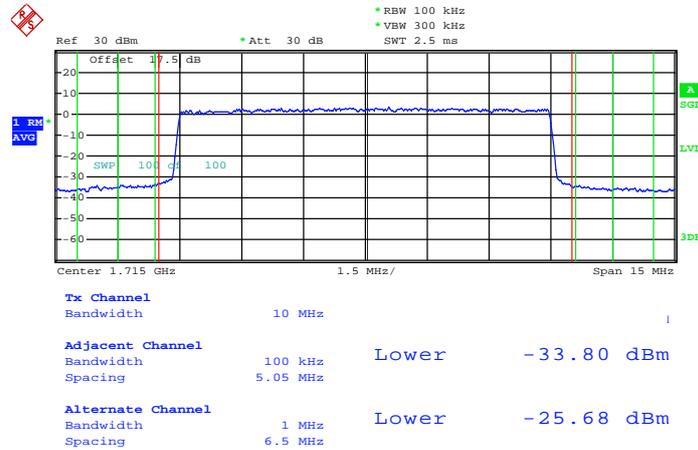
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:27:17

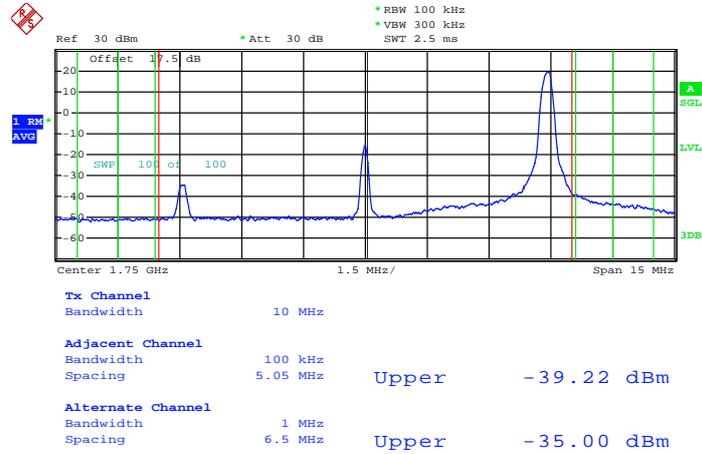
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 15.MAR.2013 13:28:15

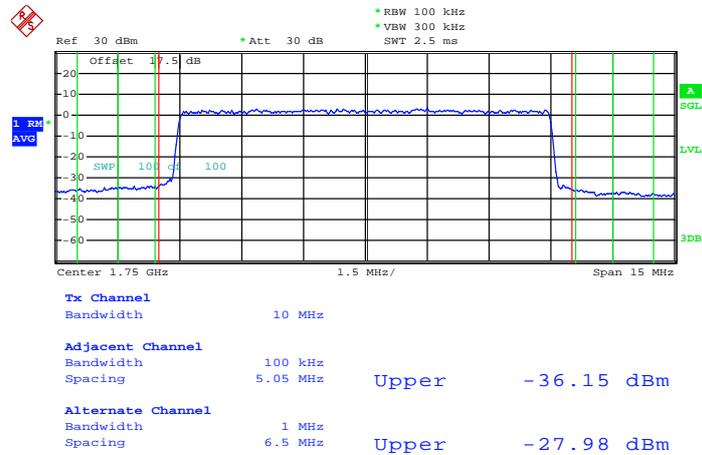


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 15.MAR.2013 13:26:04

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

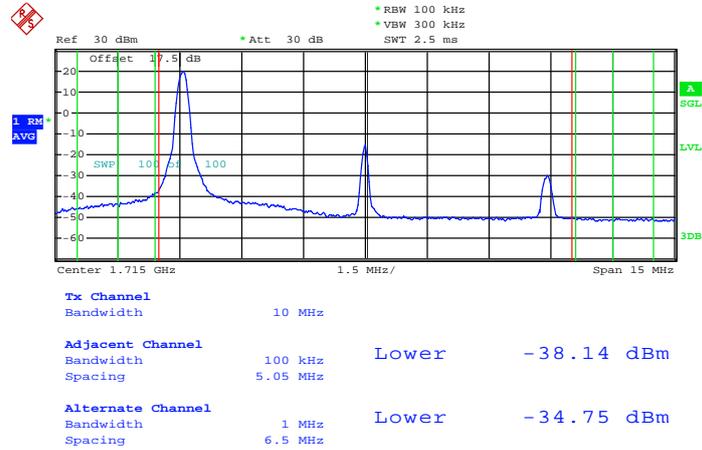


Date: 15.MAR.2013 13:24:58



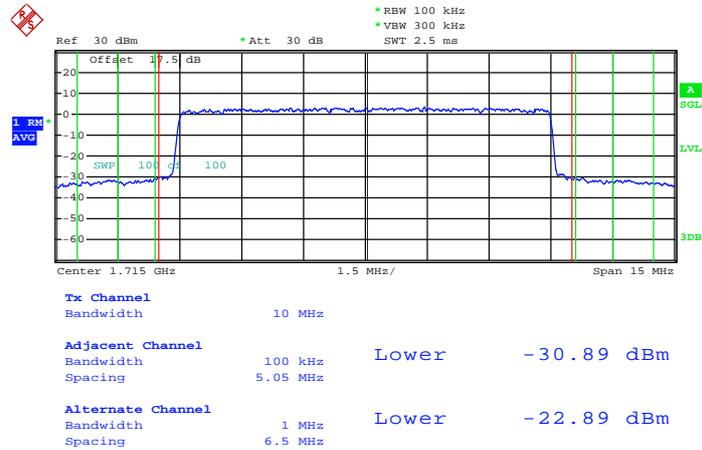
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:27:32

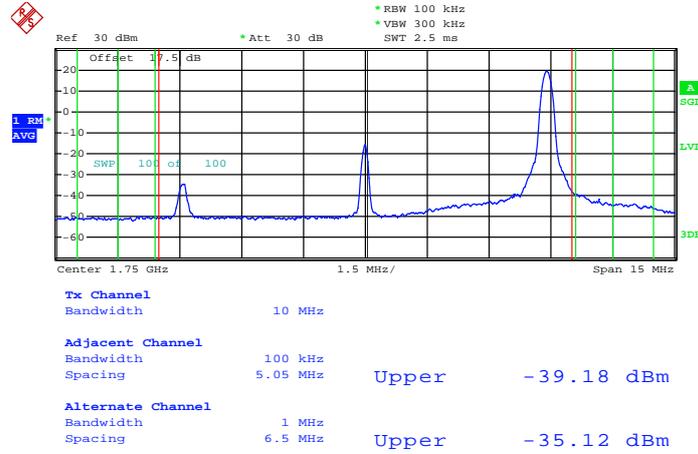
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 15.MAR.2013 13:27:56

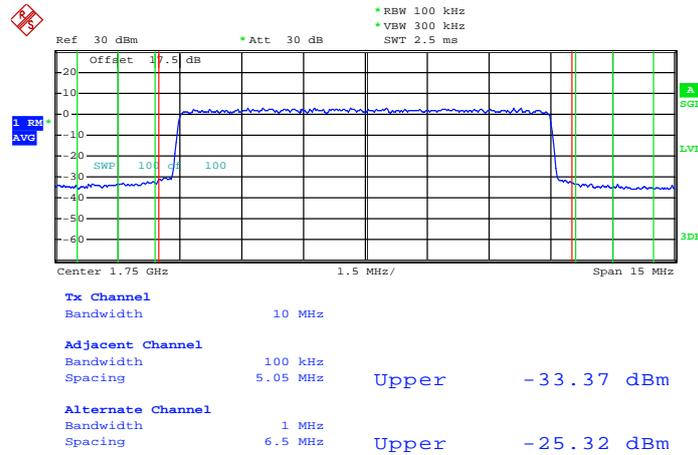


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 15.MAR.2013 13:25:38

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

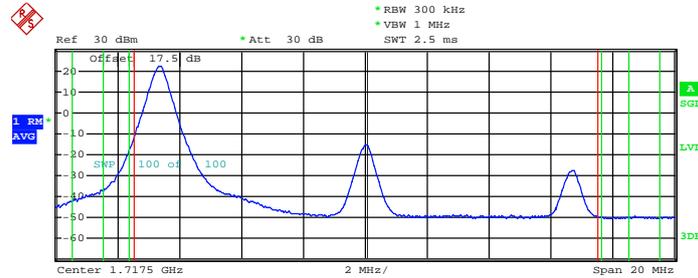


Date: 15.MAR.2013 13:25:13



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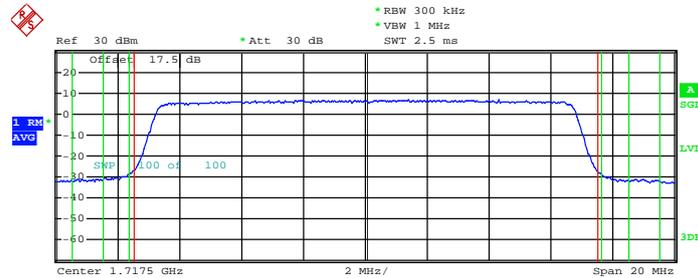
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Center 1.7175 GHz				2 MHz/		Span 20 MHz	
Tx Channel							
Bandwidth	15 MHz						
Adjacent Channel							
Bandwidth	150 kHz	Lower	-19.50 dBm				
Spacing	7.575 MHz						
Alternate Channel							
Bandwidth	1 MHz	Lower	-35.07 dBm				
Spacing	9 MHz						

Date: 15.MAR.2013 13:32:21

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

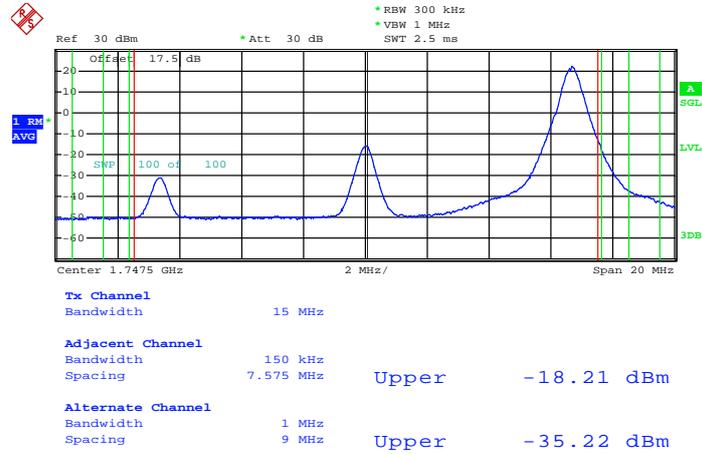


Center 1.7175 GHz				2 MHz/		Span 20 MHz	
Tx Channel							
Bandwidth	15 MHz						
Adjacent Channel							
Bandwidth	150 kHz	Lower	-31.95 dBm				
Spacing	7.575 MHz						
Alternate Channel							
Bandwidth	1 MHz	Lower	-27.14 dBm				
Spacing	9 MHz						

Date: 15.MAR.2013 13:31:18

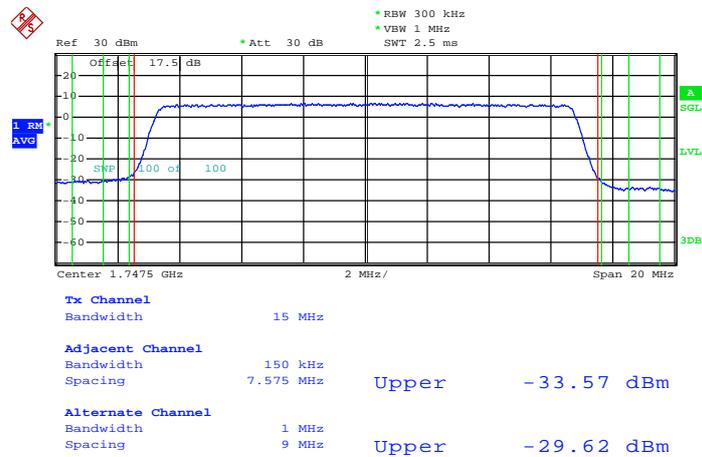


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



Date: 15.MAR.2013 13:34:08

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

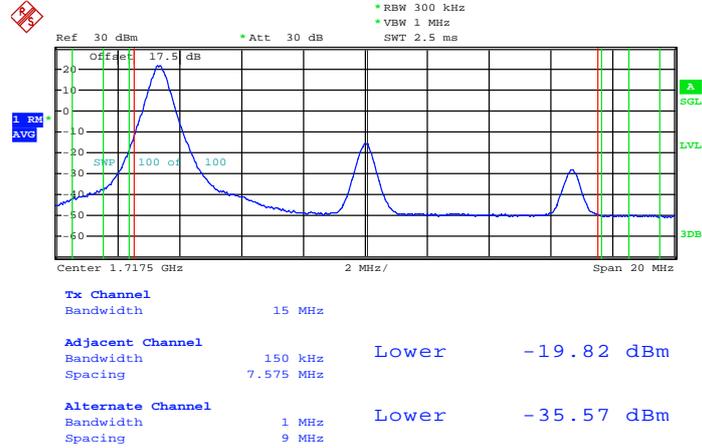


Date: 15.MAR.2013 13:35:12



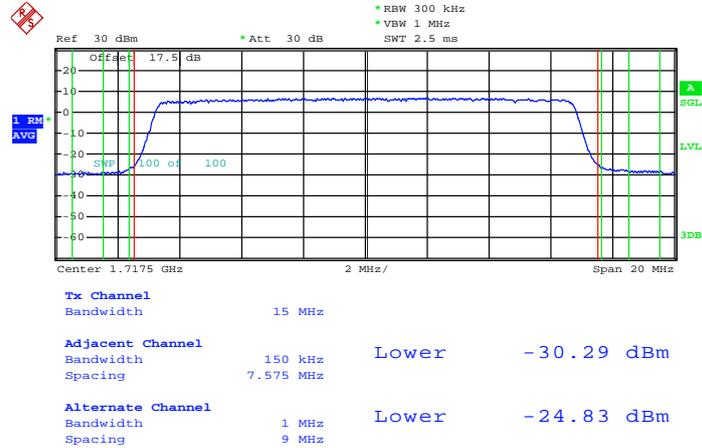
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:32:04

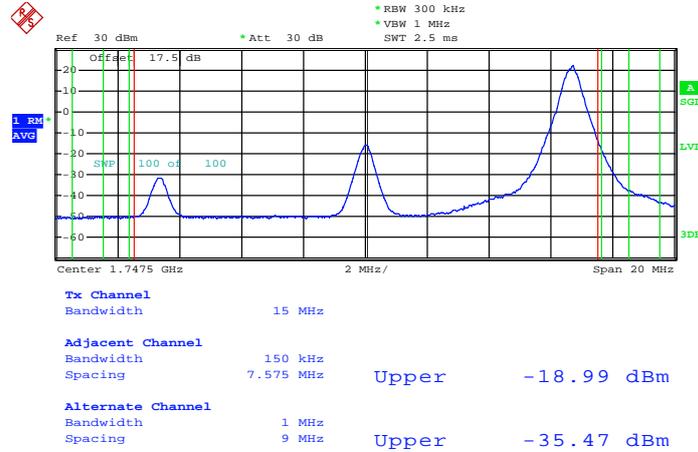
Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



Date: 15.MAR.2013 13:31:39

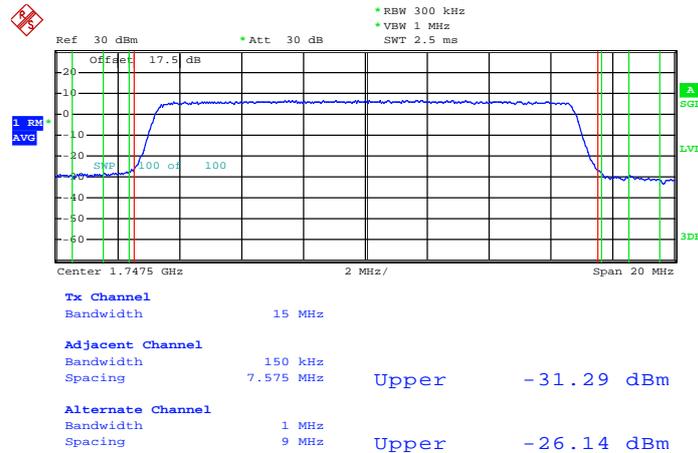


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



Date: 15.MAR.2013 13:34:27

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

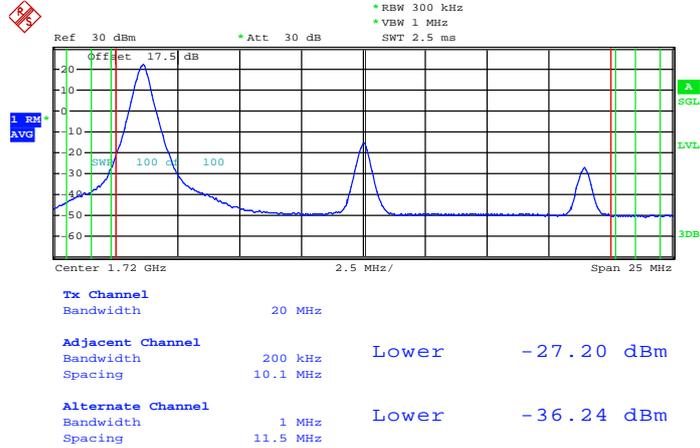


Date: 15.MAR.2013 13:34:53



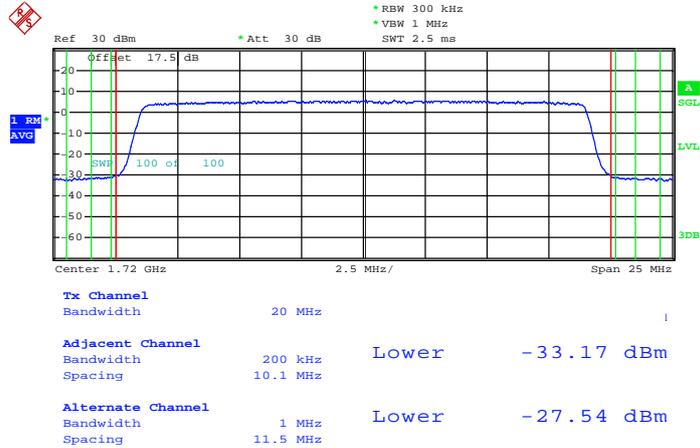
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:42:06

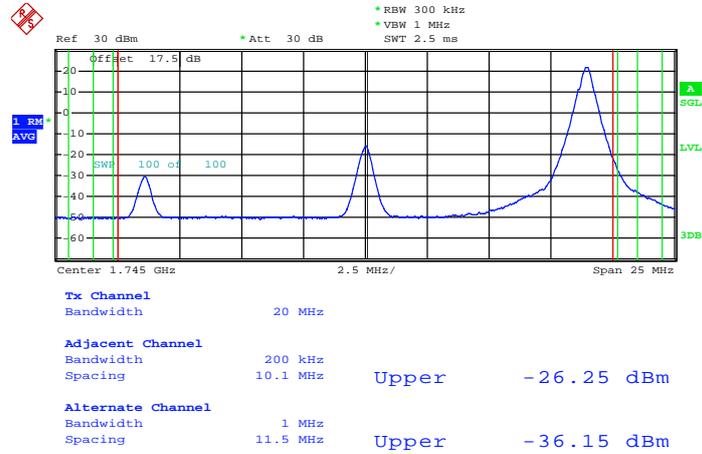
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 15.MAR.2013 13:43:10

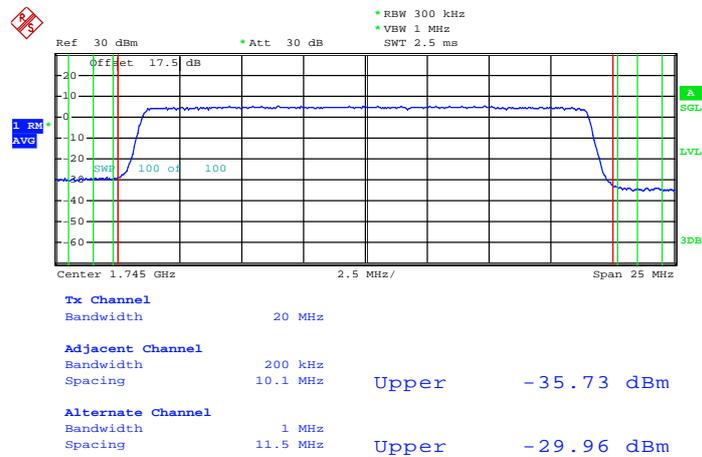


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



Date: 15.MAR.2013 13:40:32

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

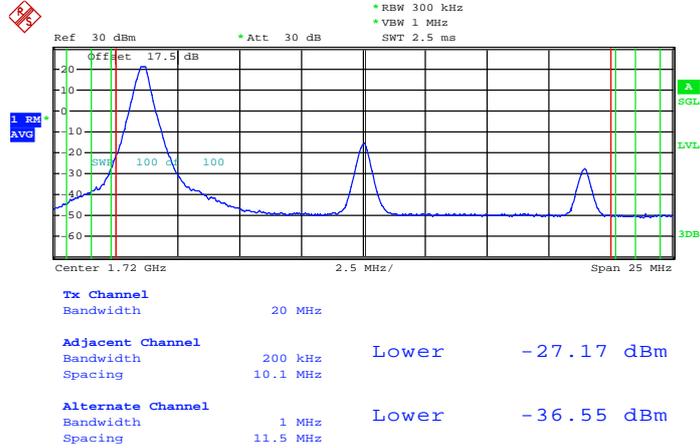


Date: 15.MAR.2013 13:39:12



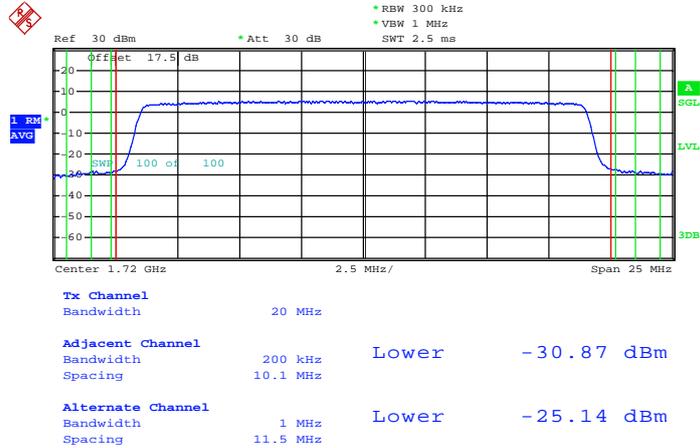
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 13:42:28

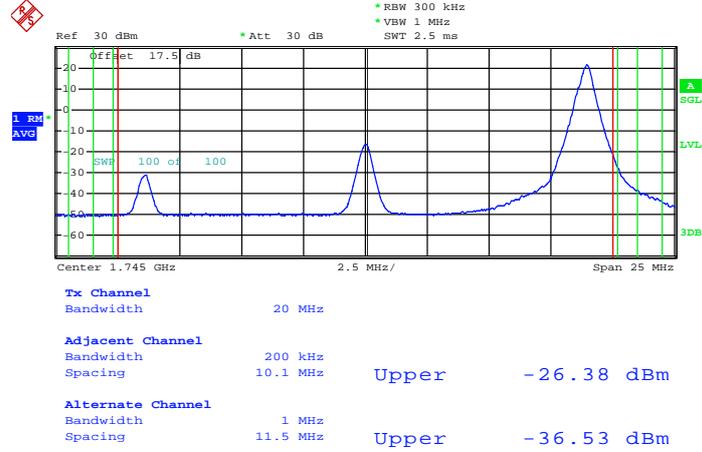
Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



Date: 15.MAR.2013 13:42:48

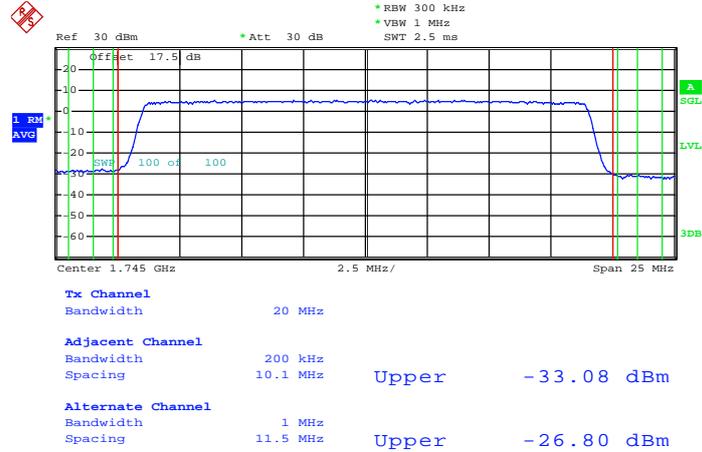


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



Date: 15.MAR.2013 13:40:02

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

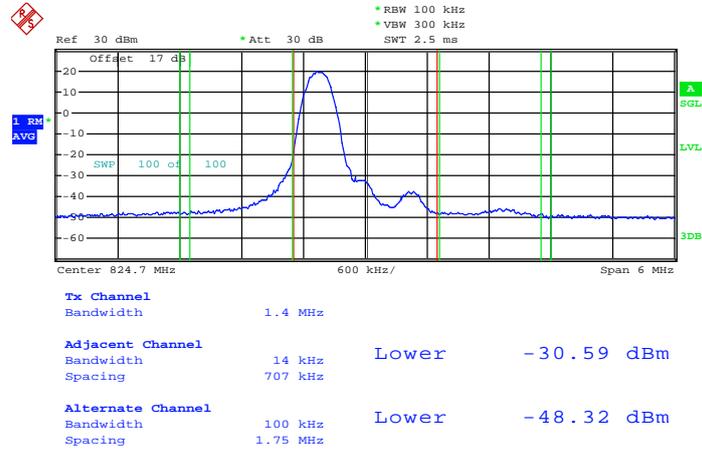


Date: 15.MAR.2013 13:39:31



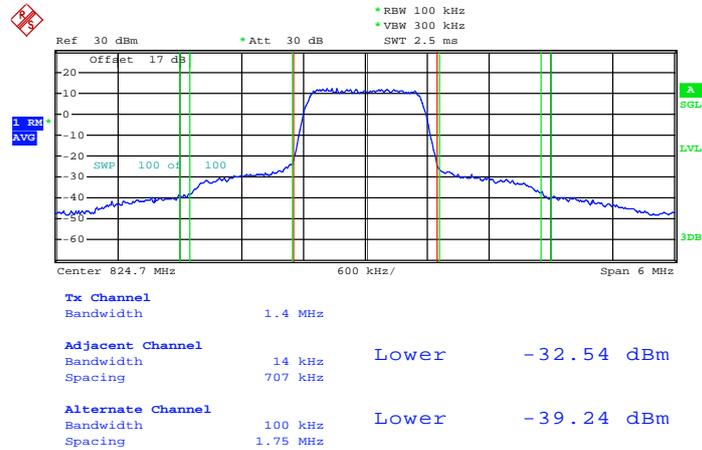
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 11:04:02

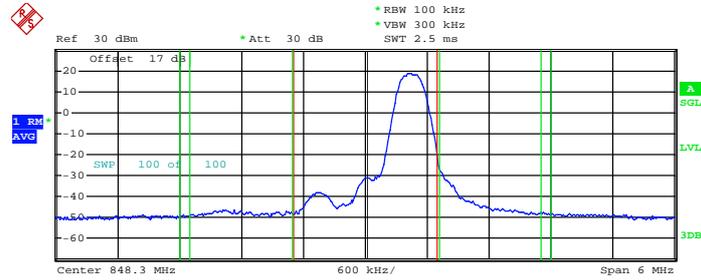
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 15.MAR.2013 11:02:10



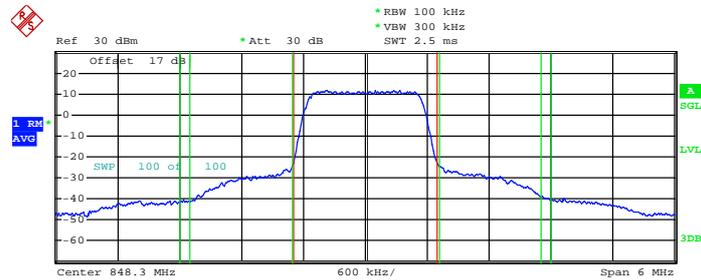
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-29.09 dBm
Alternate Channel			
Bandwidth	100 kHz		
Spacing	1.75 MHz	Upper	-48.34 dBm

Date: 15.MAR.2013 11:05:15

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



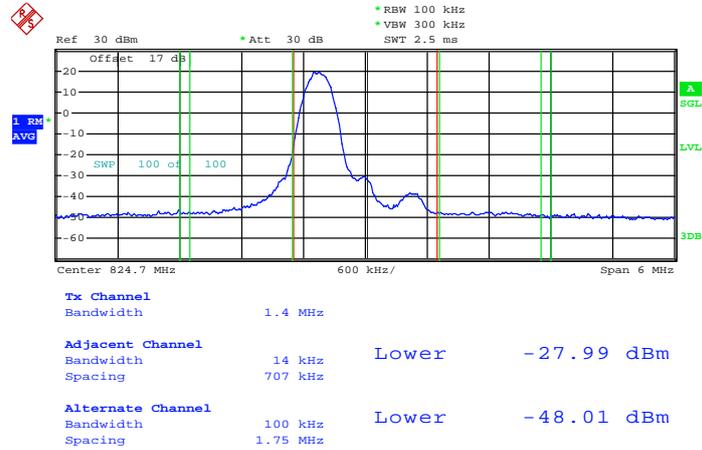
Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-32.34 dBm
Alternate Channel			
Bandwidth	100 kHz		
Spacing	1.75 MHz	Upper	-39.71 dBm

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



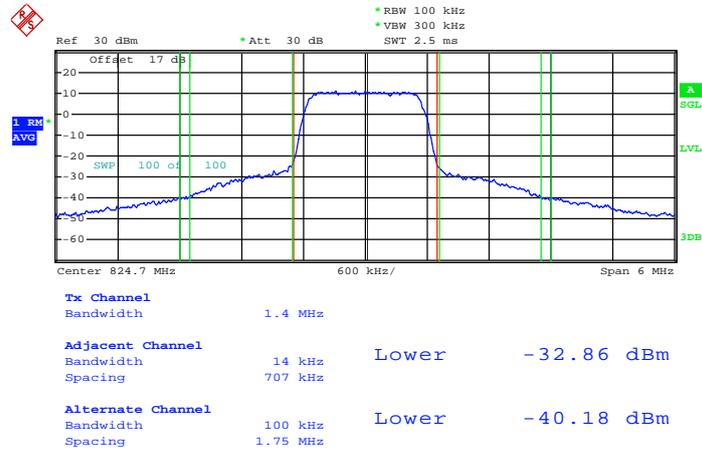
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 11:03:11

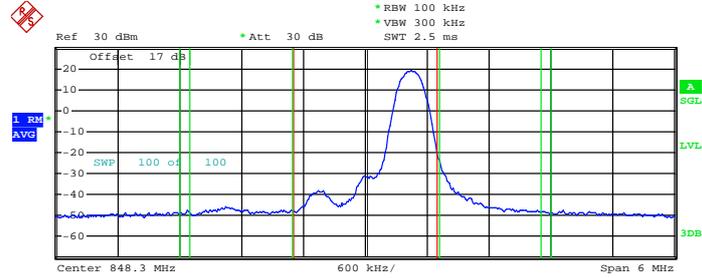
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 15.MAR.2013 11:02:28



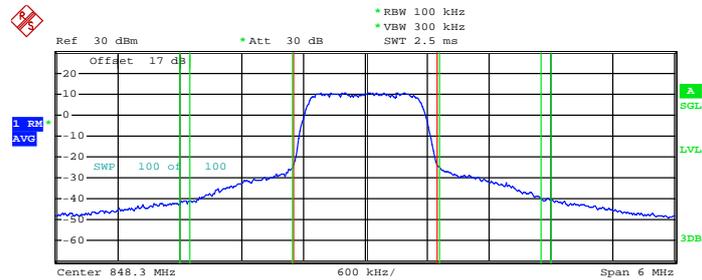
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-29.79 dBm
Alternate Channel			
Bandwidth	100 kHz		
Spacing	1.75 MHz	Upper	-48.59 dBm

Date: 15.MAR.2013 11:05:30

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



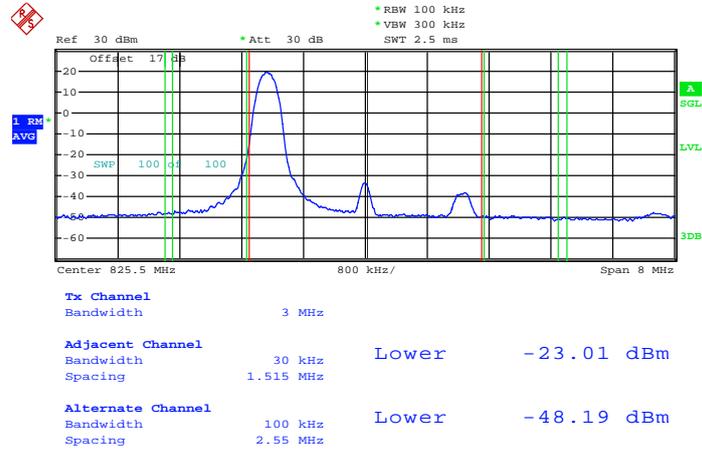
Tx Channel			
Bandwidth	1.4 MHz		
Adjacent Channel			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-33.25 dBm
Alternate Channel			
Bandwidth	100 kHz		
Spacing	1.75 MHz	Upper	-40.46 dBm

Date: 15.MAR.2013 11:05:58



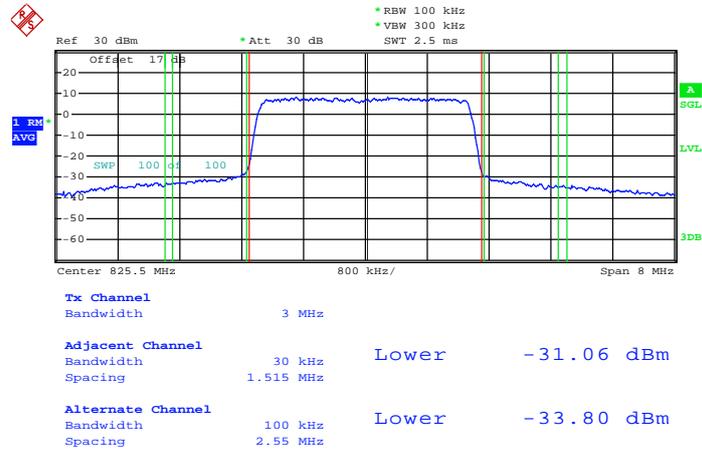
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 11:11:15

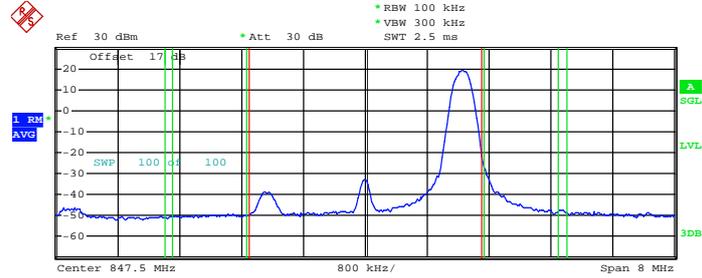
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 15.MAR.2013 11:12:33



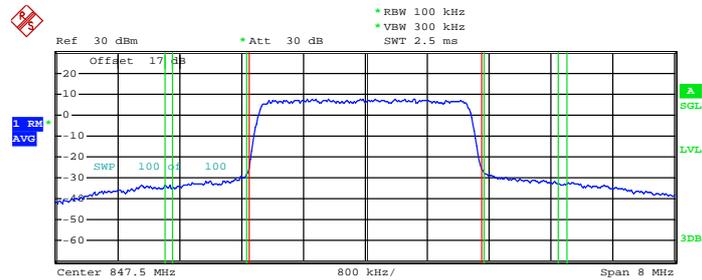
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Tx Channel			
Bandwidth	3 MHz		
Adjacent Channel			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-25.58 dBm
Alternate Channel			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-48.03 dBm

Date: 15.MAR.2013 11:09:56

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



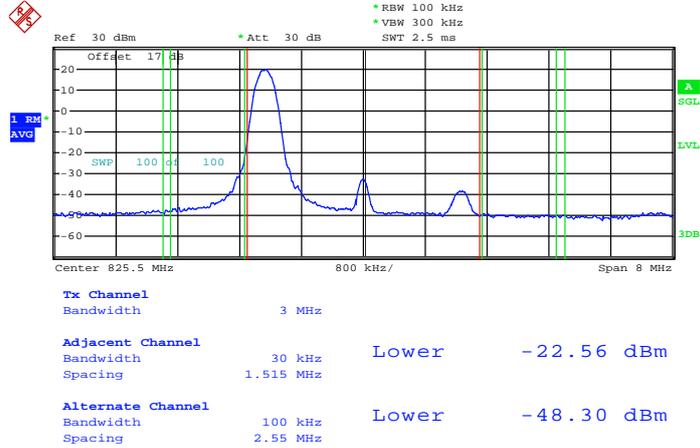
Tx Channel			
Bandwidth	3 MHz		
Adjacent Channel			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-31.33 dBm
Alternate Channel			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-33.48 dBm

Date: 15.MAR.2013 11:08:38



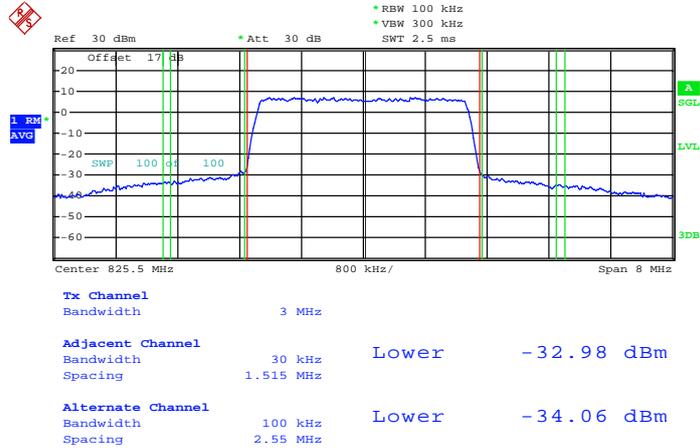
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 11:11:31

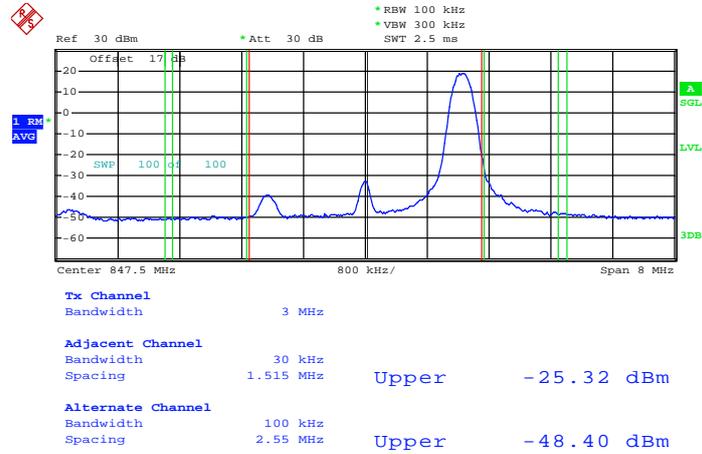
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 15.MAR.2013 11:12:15

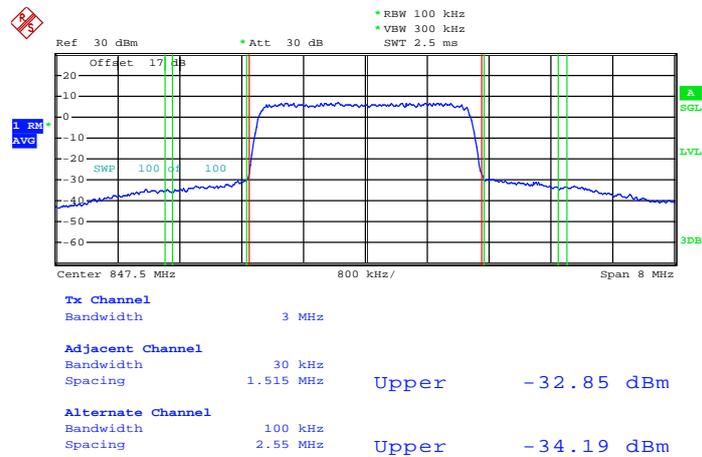


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 15.MAR.2013 11:09:36

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

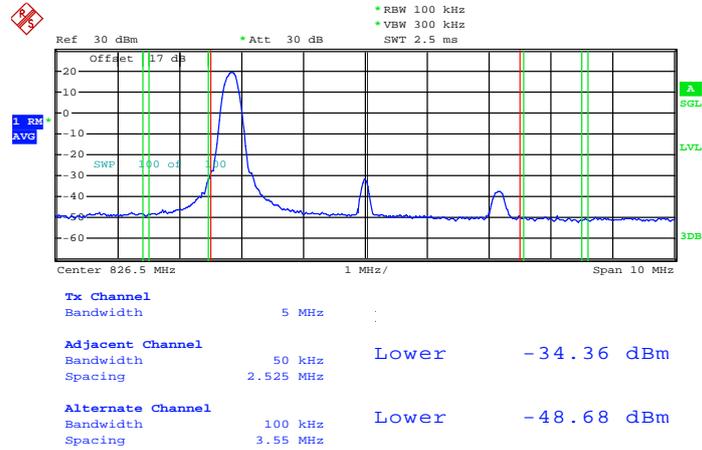


Date: 15.MAR.2013 11:08:59



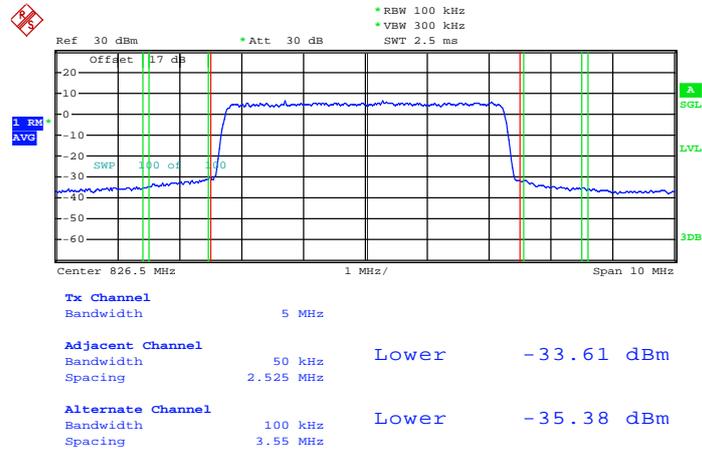
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 11:15:50

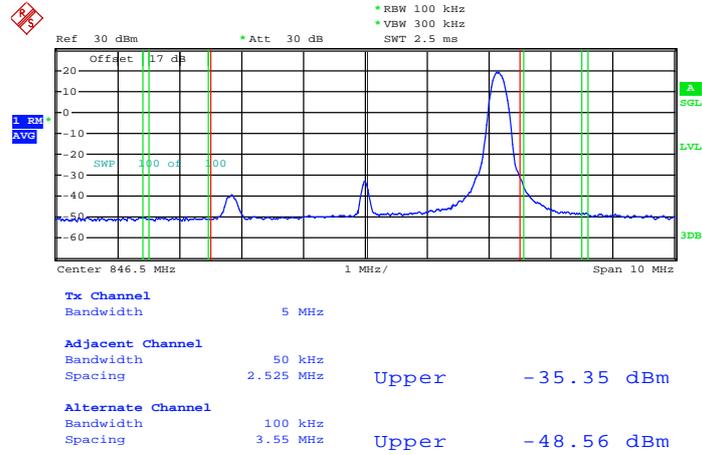
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 15.MAR.2013 11:14:38

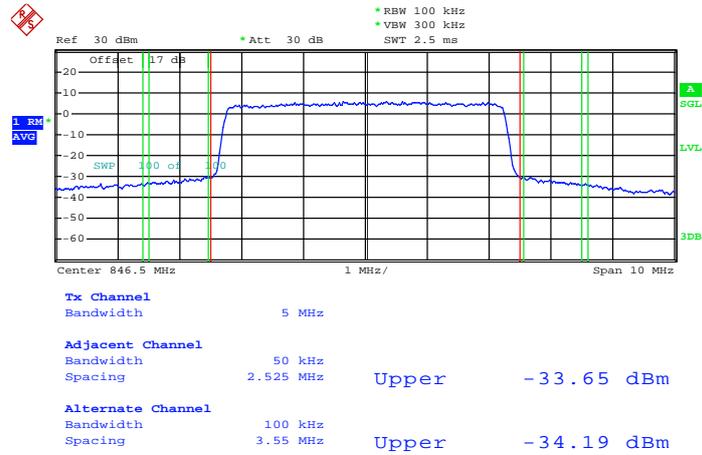


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 15.MAR.2013 11:19:43

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

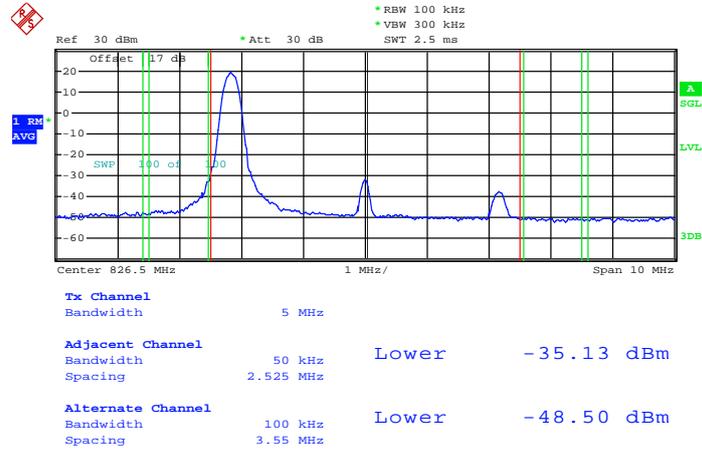


Date: 15.MAR.2013 11:20:57



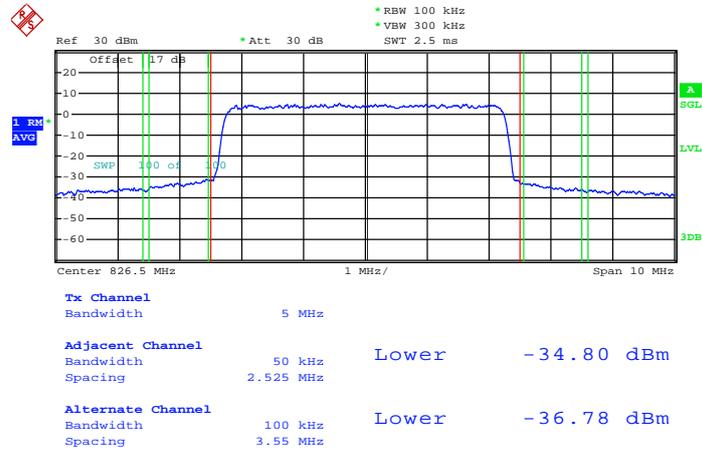
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 11:15:31

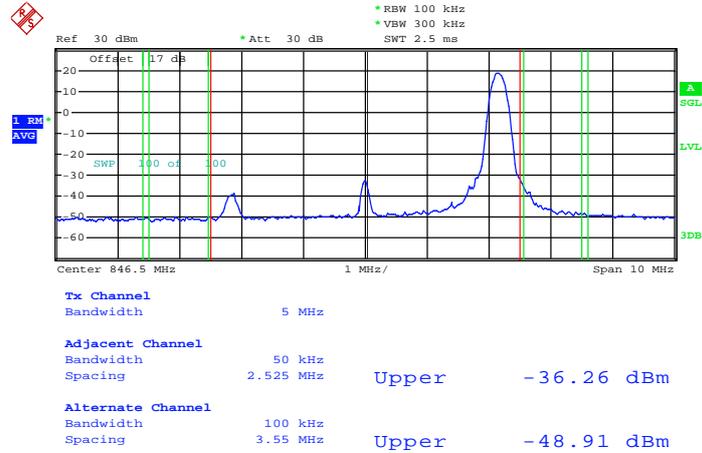
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 15.MAR.2013 11:15:03

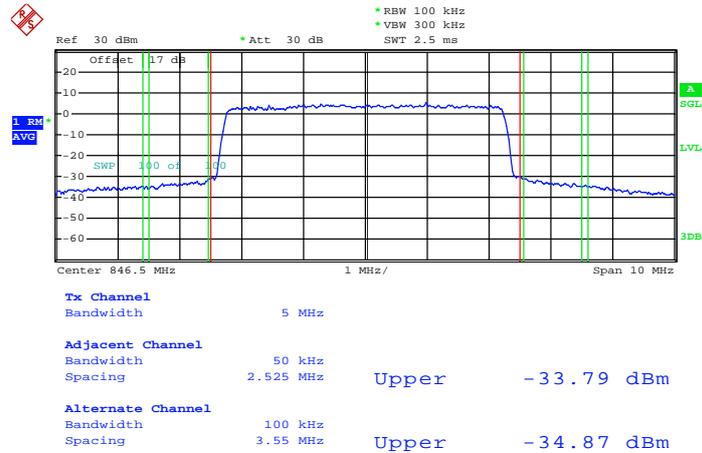


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 15.MAR.2013 11:20:00

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

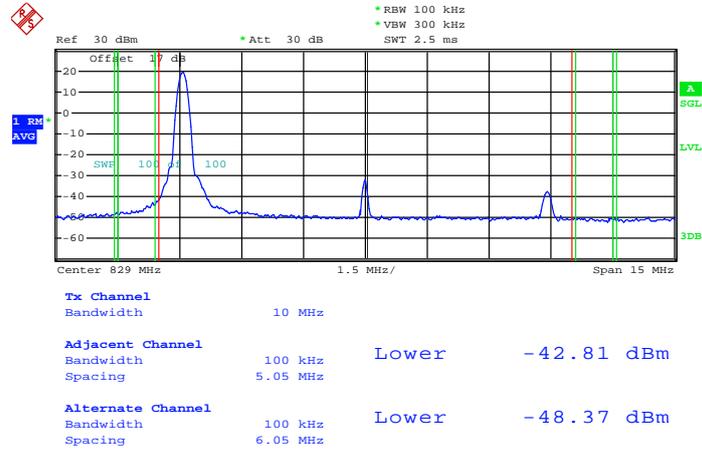


Date: 15.MAR.2013 11:20:34



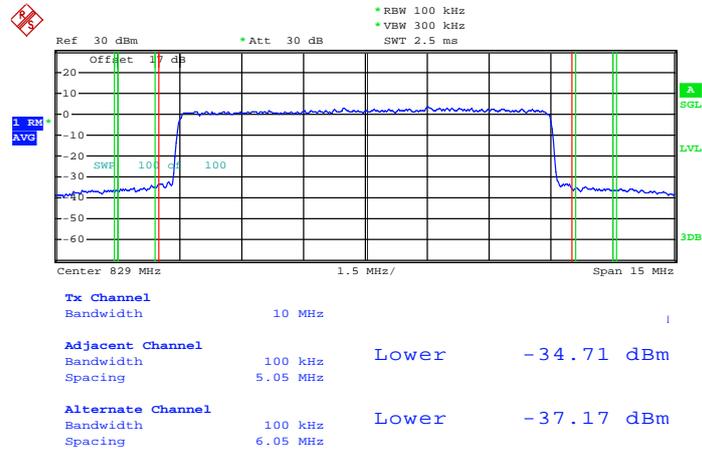
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 11:26:25

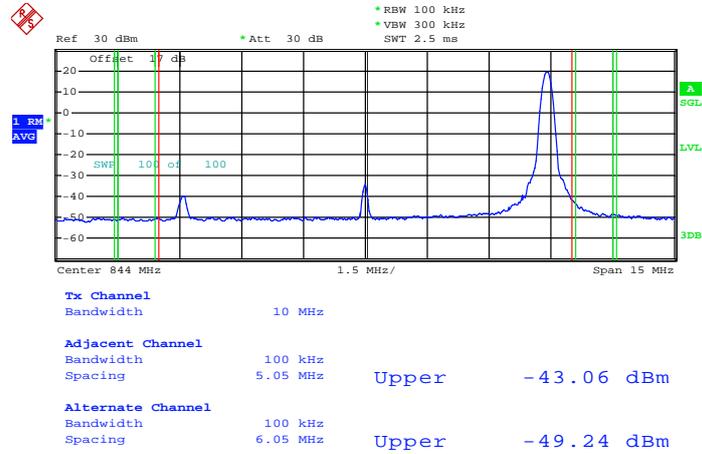
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 15.MAR.2013 11:28:14

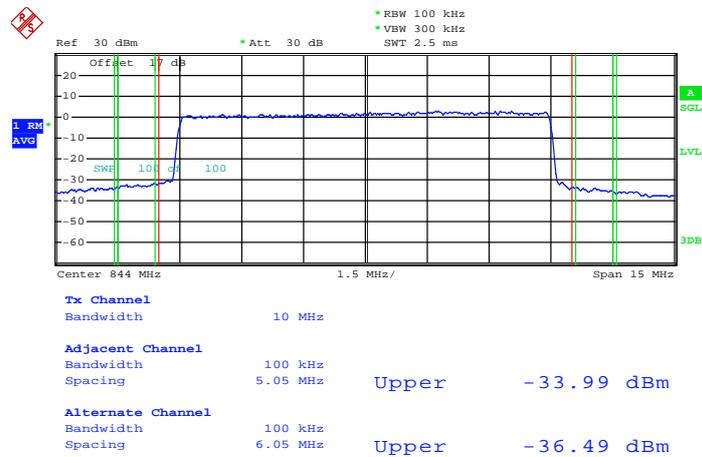


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 15.MAR.2013 11:25:24

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

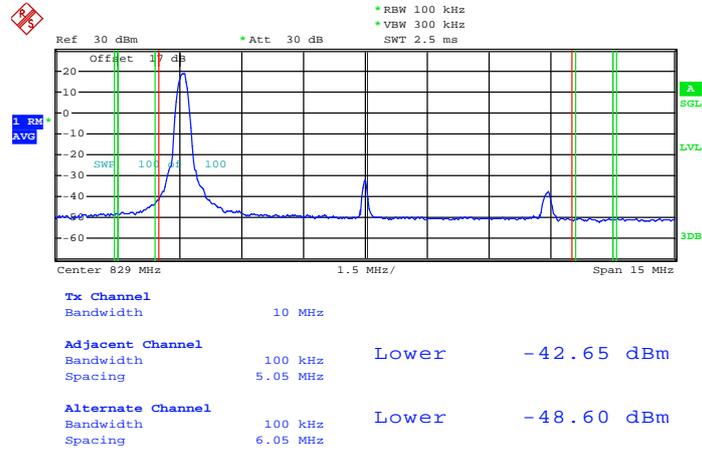


Date: 15.MAR.2013 11:24:16



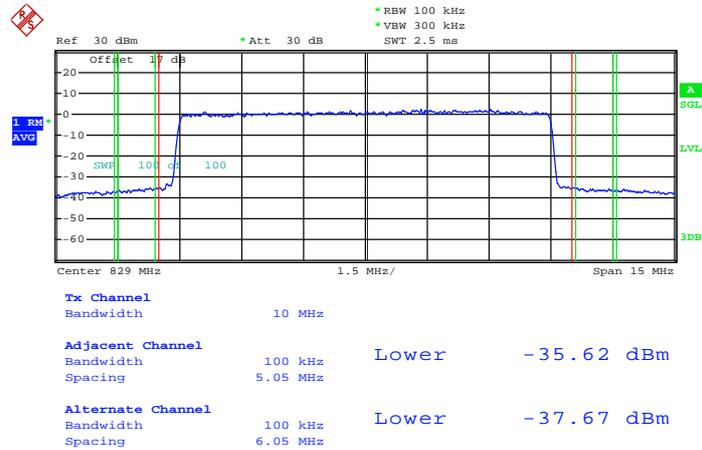
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 15.MAR.2013 11:26:56

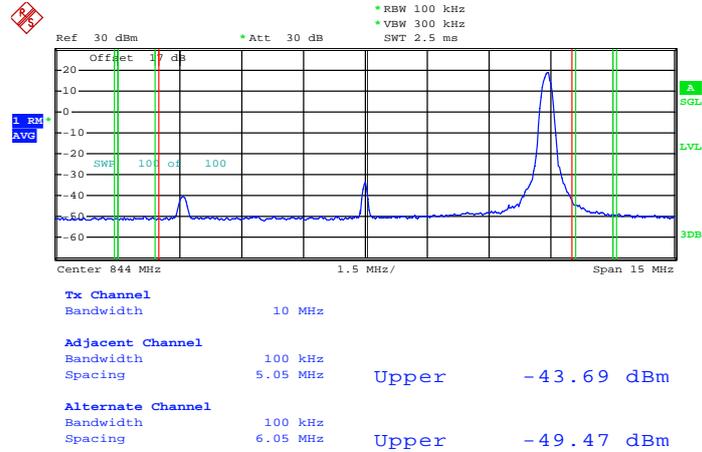
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 15.MAR.2013 11:27:57

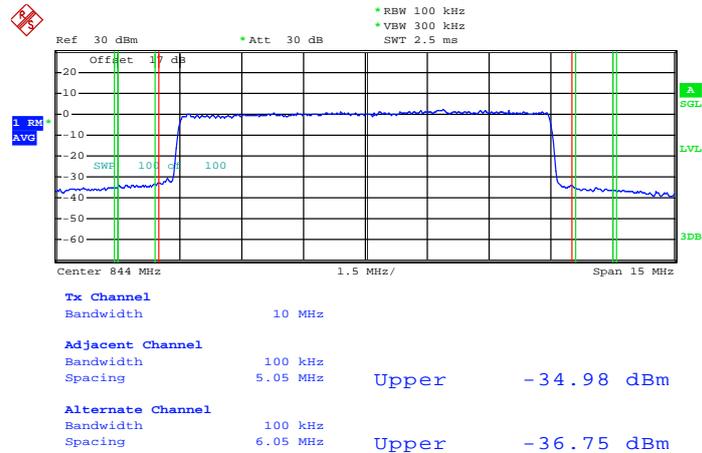


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 15.MAR.2013 11:25:02

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

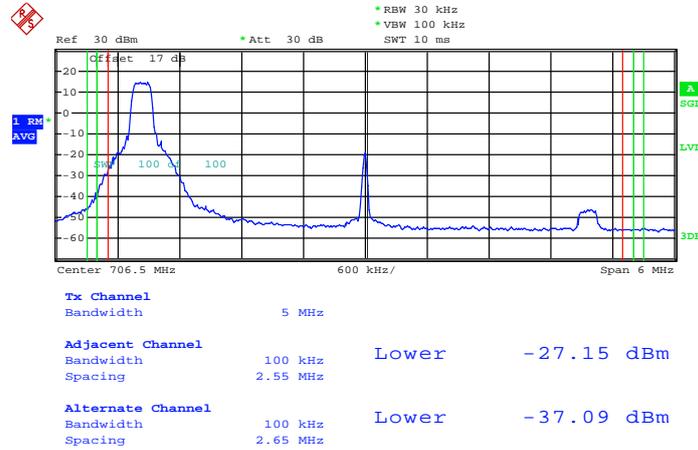


Date: 15.MAR.2013 11:24:33



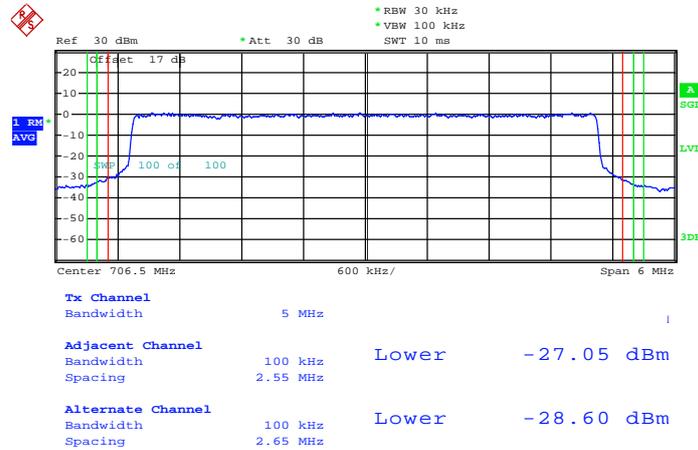
Band :	LTE Band 17	Band Width	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 15:06:04

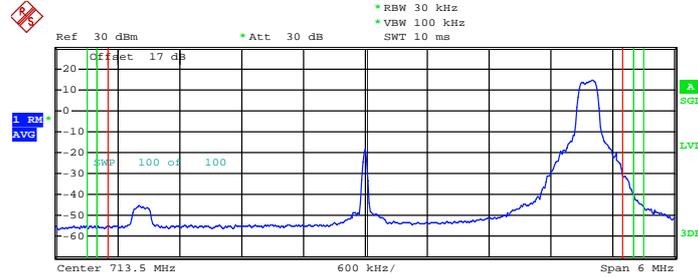
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 15.MAR.2013 15:07:02



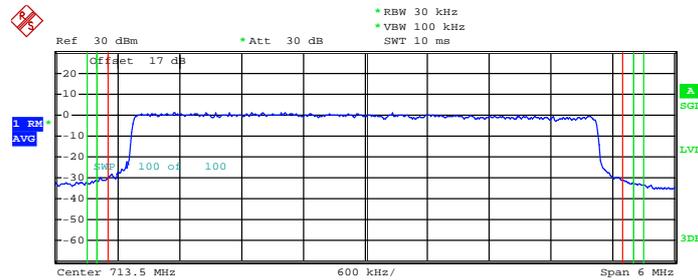
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Tx Channel			
Bandwidth	5 MHz		
Adjacent Channel			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-28.04 dBm
Alternate Channel			
Bandwidth	100 kHz		
Spacing	2.65 MHz	Upper	-37.93 dBm

Date: 15.MAR.2013 15:05:08

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



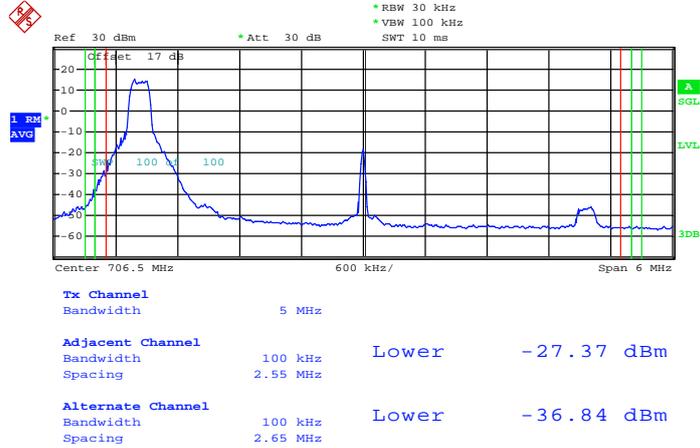
Tx Channel			
Bandwidth	5 MHz		
Adjacent Channel			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-27.00 dBm
Alternate Channel			
Bandwidth	100 kHz		
Spacing	2.65 MHz	Upper	-28.24 dBm

Date: 15.MAR.2013 15:03:18



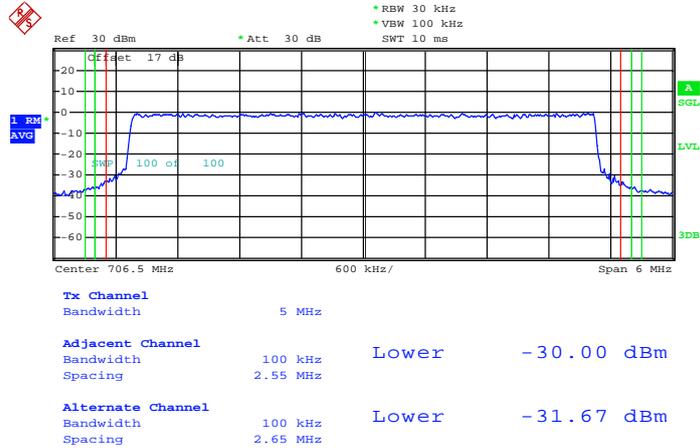
Band :	LTE Band 17	Band Width	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 15.MAR.2013 15:06:22

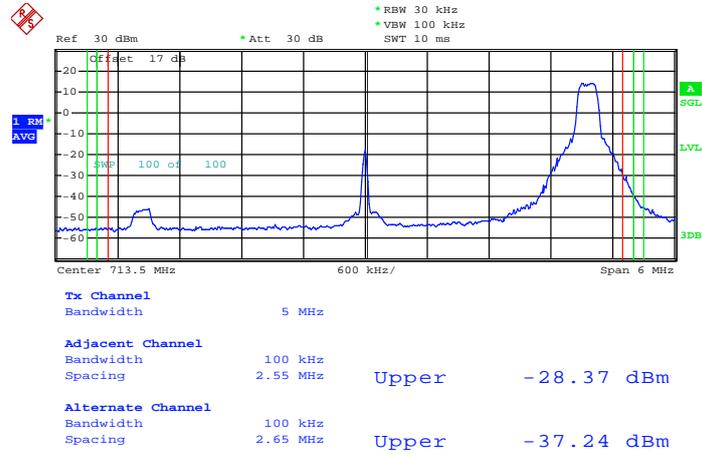
Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



Date: 15.MAR.2013 15:06:44

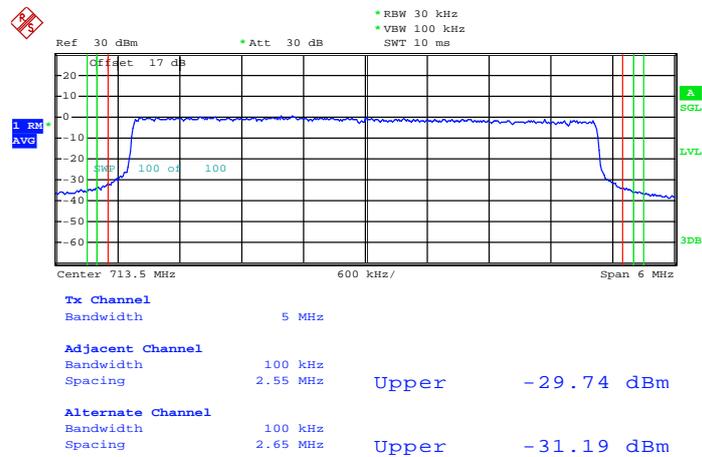


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 15.MAR.2013 15:04:51

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

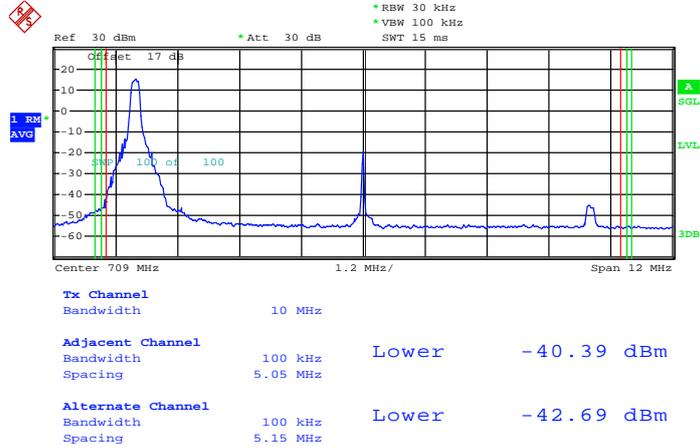


Date: 15.MAR.2013 15:04:16



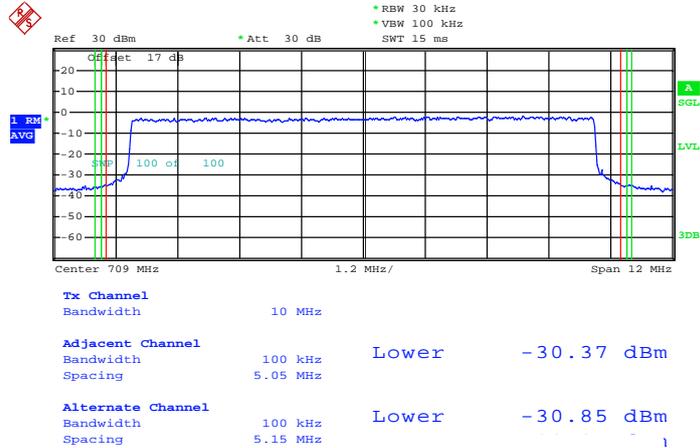
Band :	LTE Band 17	Band Width	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 15.MAR.2013 15:10:21

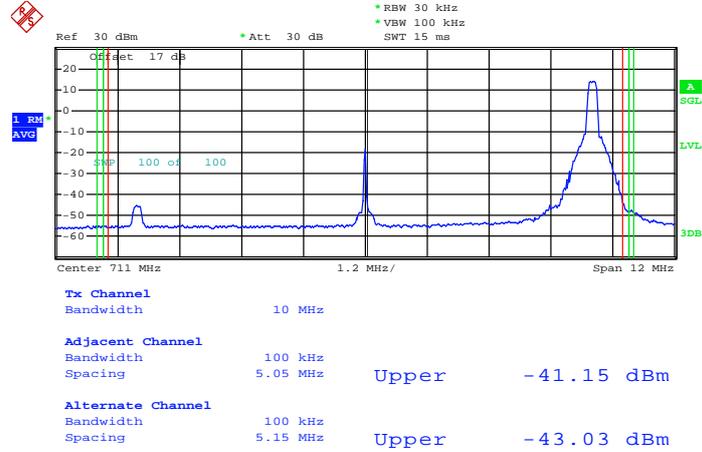
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 15.MAR.2013 15:08:45

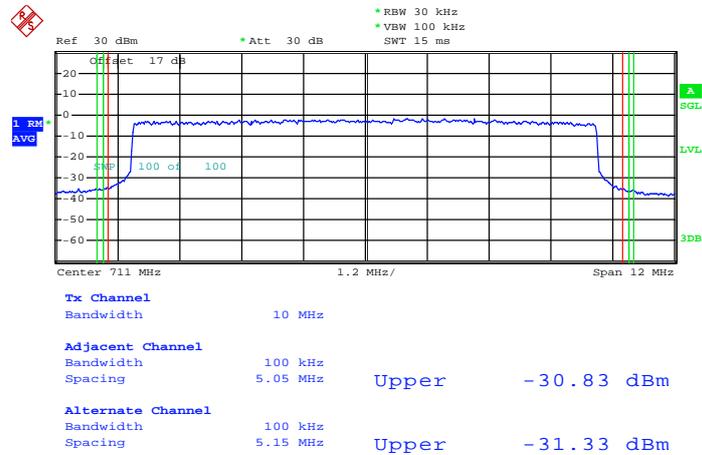


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 15.MAR.2013 15:11:12

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

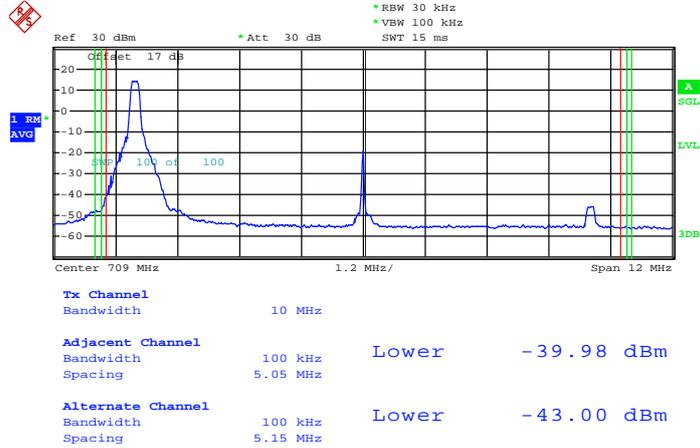


Date: 15.MAR.2013 15:12:15



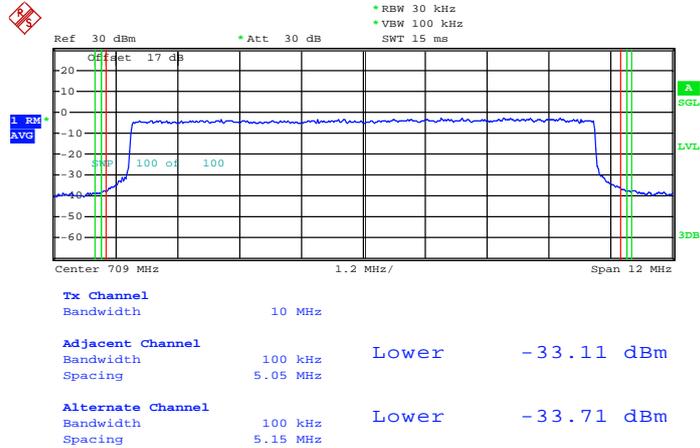
Band :	LTE Band 17	Band Width	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 15.MAR.2013 15:10:01

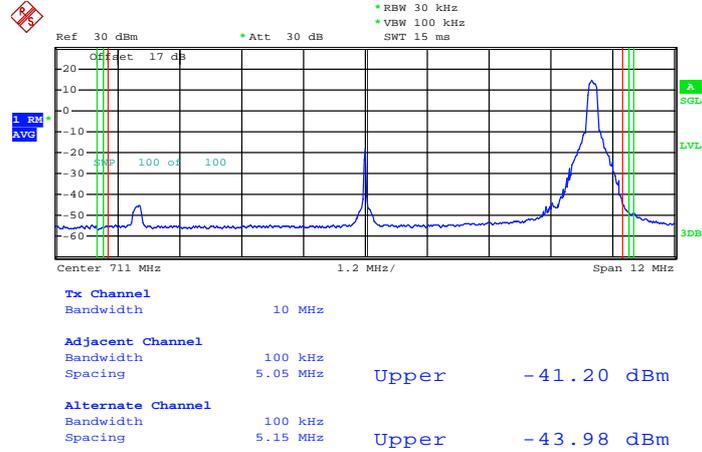
Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 15.MAR.2013 15:09:16

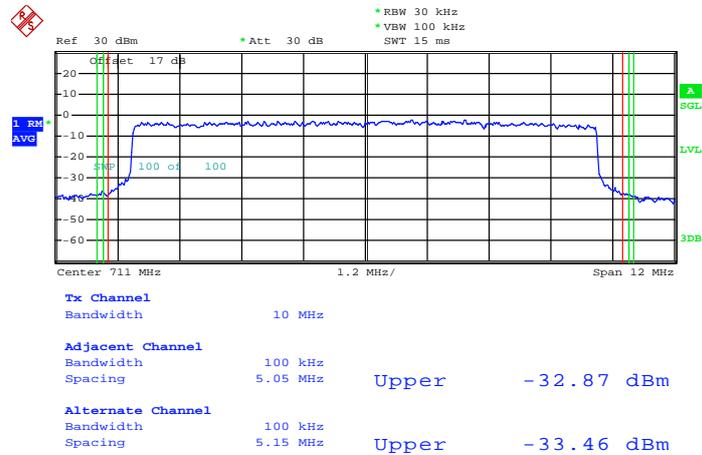


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Date: 15.MAR.2013 15:11:29

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



Date: 15.MAR.2013 15:11:55

3.5 Conducted Spurious Emission Measurement

3.5.1 Description of Conducted Spurious Emission Measurement

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

It is measured by means of a calibrated spectrum analyzer and scanned from 9 KHz up to a frequency including its 10th harmonic.

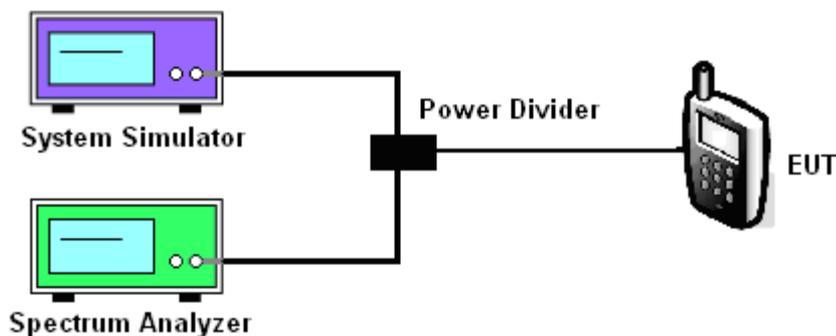
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

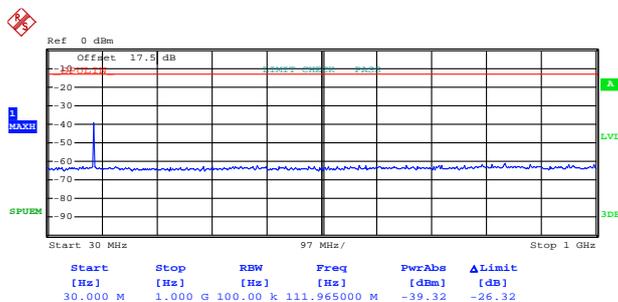
3.5.4 Test Setup



3.5.5 Test Result (Plots) of Conducted Spurious Emission

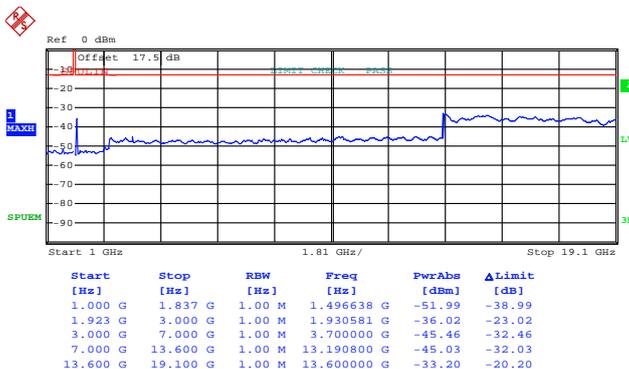
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
Frequency :	1850.7	Channel :	18607

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:53:42

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

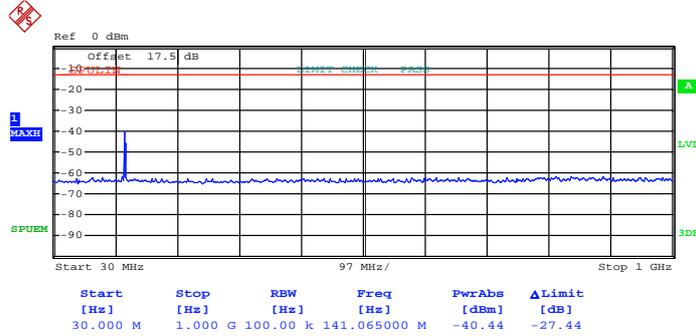


Date: 1.MAR.2013 09:53:05



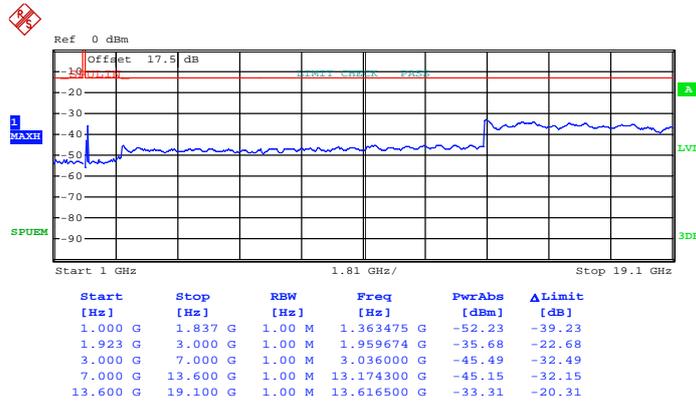
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:47:01

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

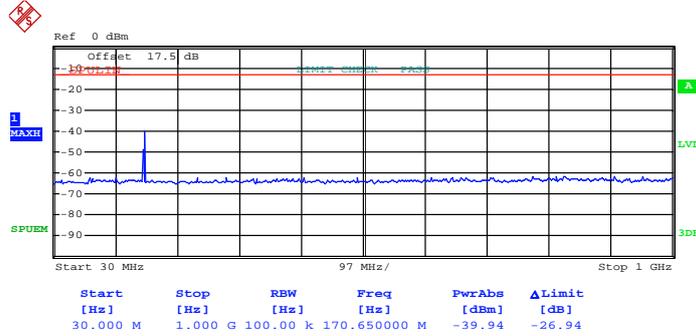


Date: 1.MAR.2013 09:51:16



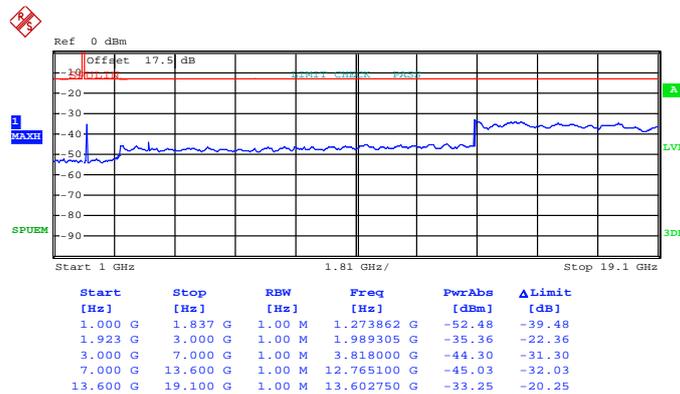
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
Frequency :	1909.3	Channel :	19193

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:48:29

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

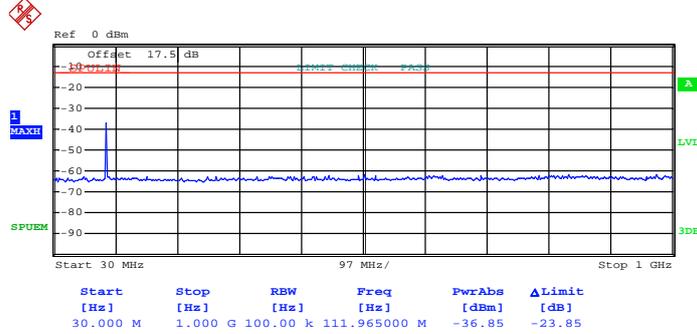


Date: 1.MAR.2013 09:50:16



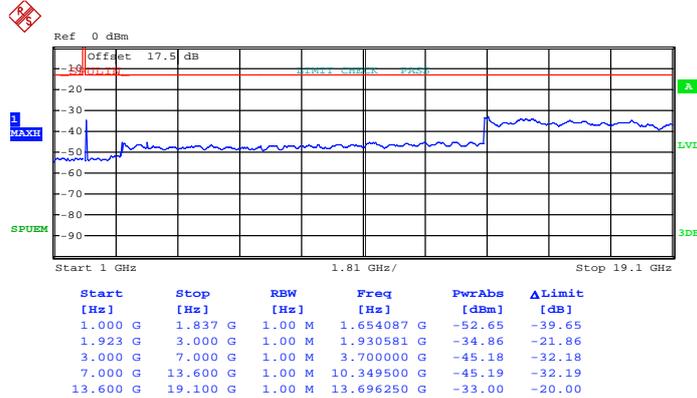
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1850.7	Channel :	18607

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:54:09

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

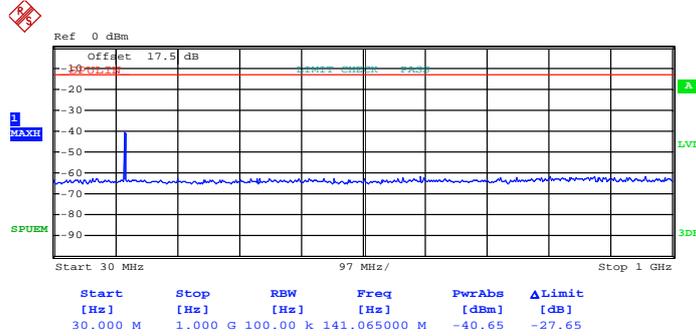


Date: 1.MAR.2013 09:52:35



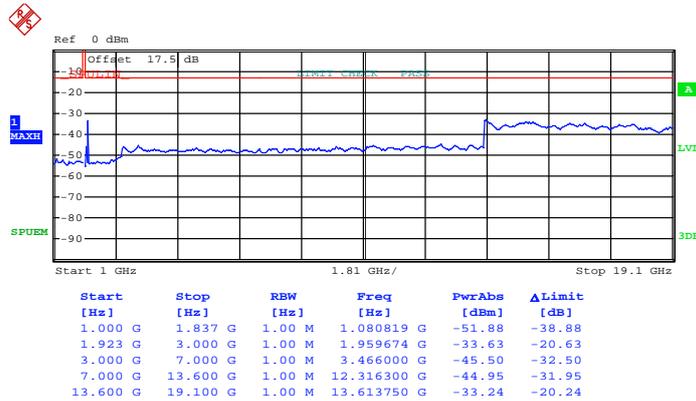
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:46:29

Conducted Emission Plot (1GHz ~ 19.1GHz) for
16-QAM (RB Size 1, RB Offset 0)

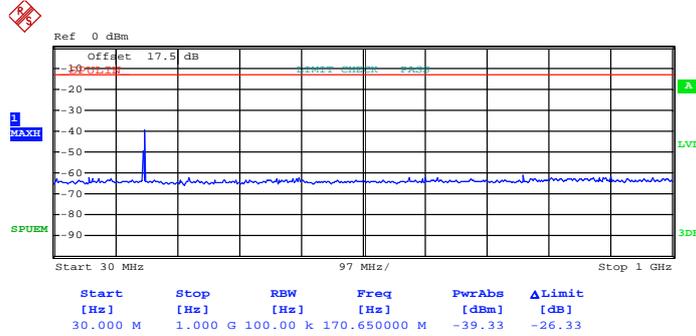


Date: 1.MAR.2013 09:51:43



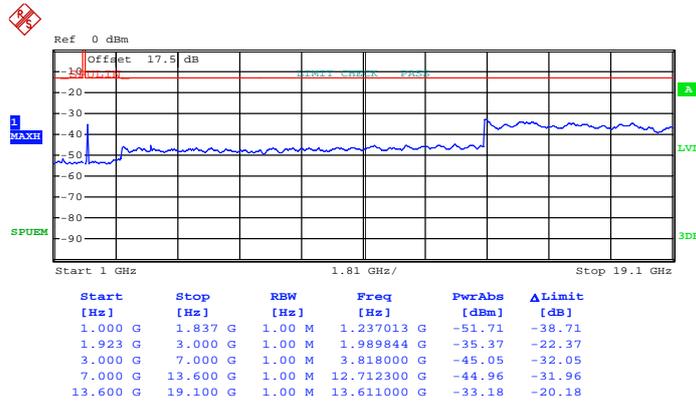
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1909.3	Channel :	19193

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:48:55

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

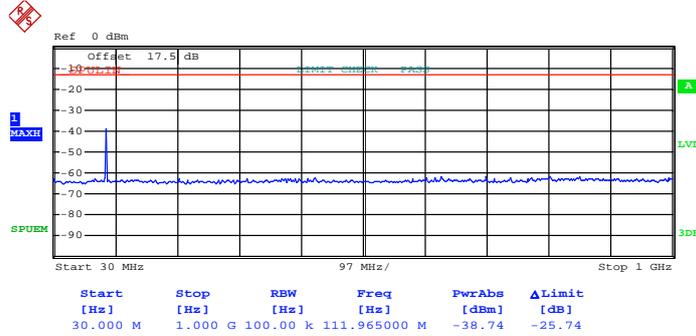


Date: 1.MAR.2013 09:49:40



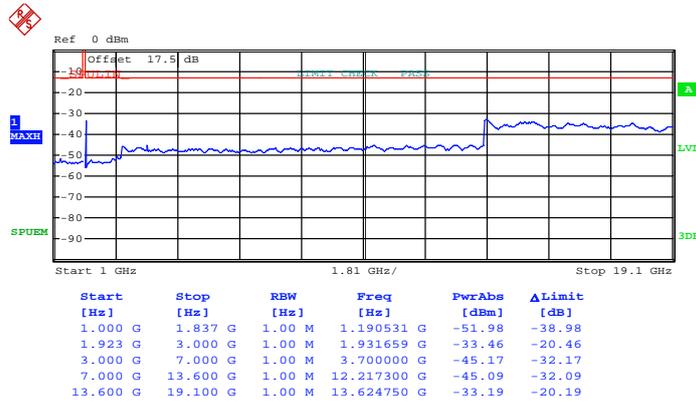
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
Frequency :	1851.5	Channel :	18615

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:01:27

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

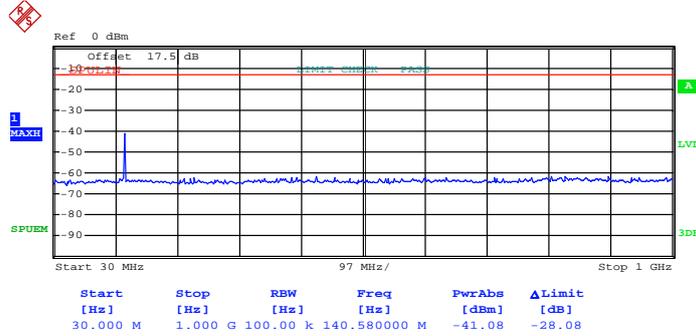


Date: 1.MAR.2013 10:02:00



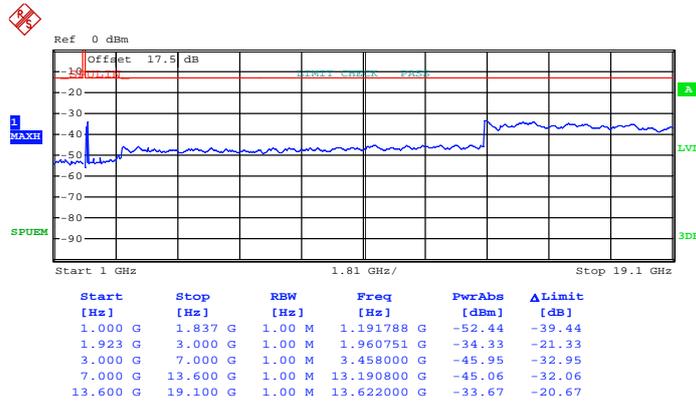
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:56:04

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

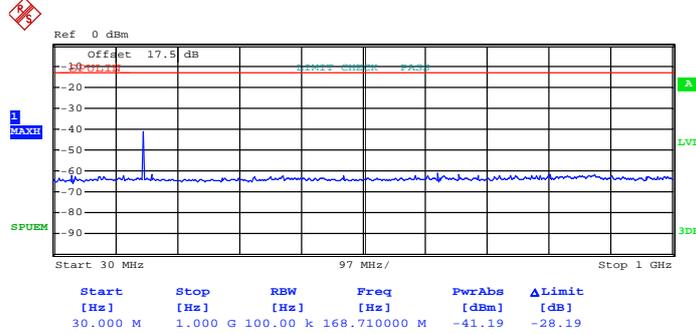


Date: 1.MAR.2013 09:56:56



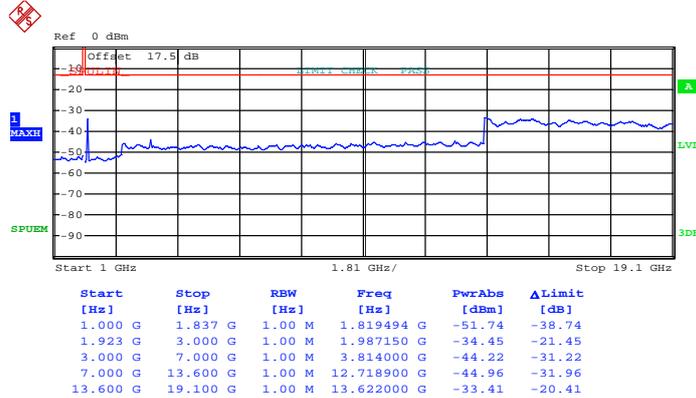
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
Frequency :	1908.5	Channel :	19185

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:59:36

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

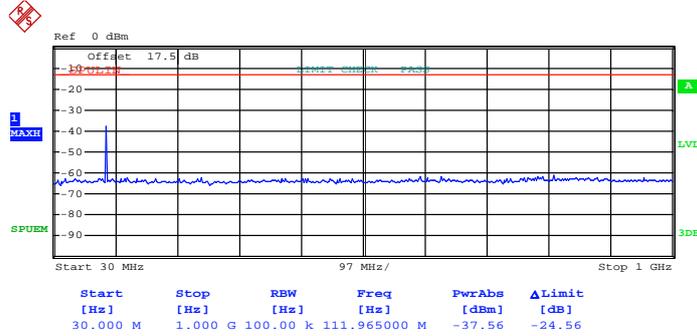


Date: 1.MAR.2013 09:58:45



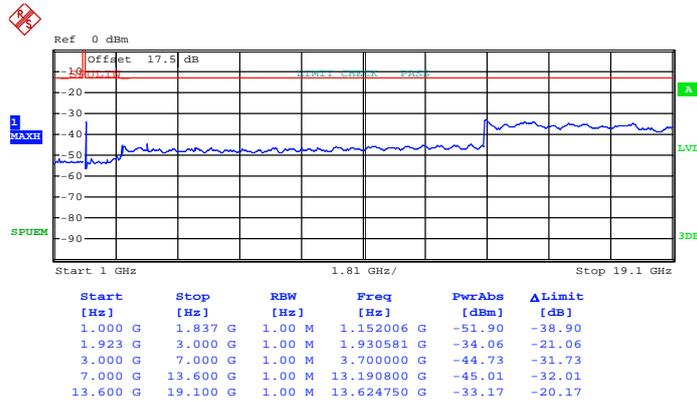
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
Frequency :	1851.5	Channel :	18615

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:01:02

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

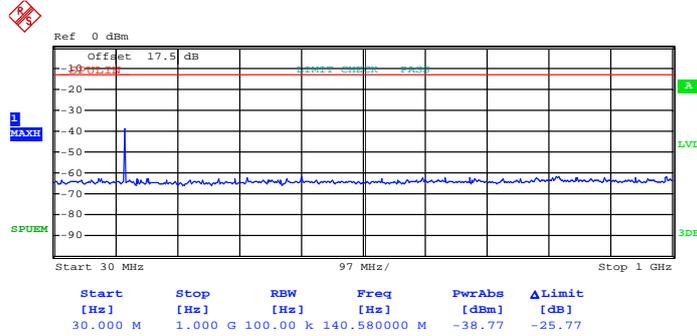


Date: 1.MAR.2013 10:02:31



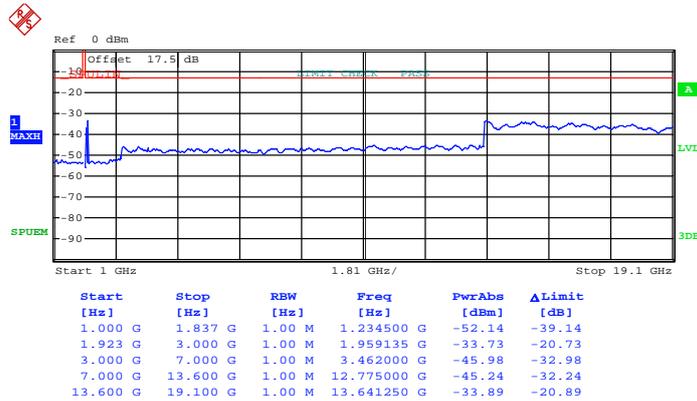
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:55:38

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

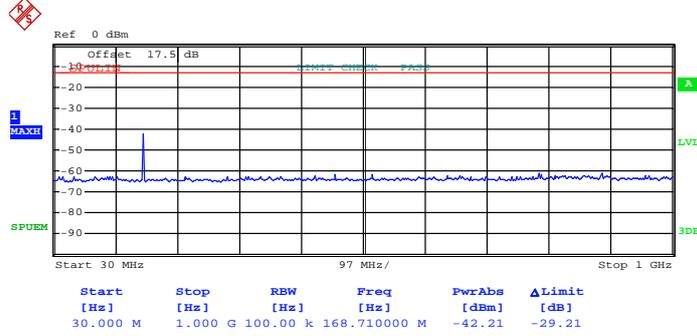


Date: 1.MAR.2013 09:57:19



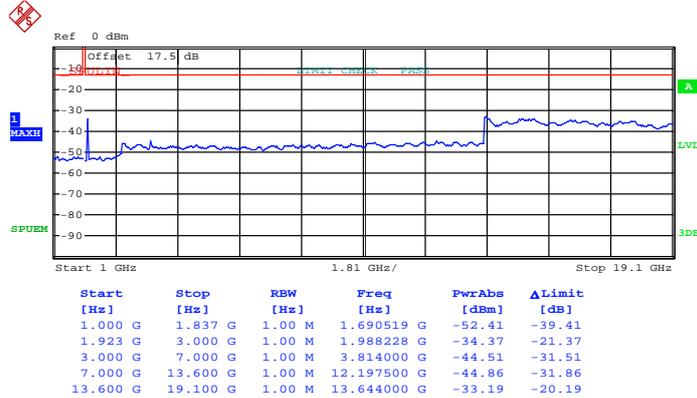
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
Frequency :	1908.5	Channel :	19185

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:00:09

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

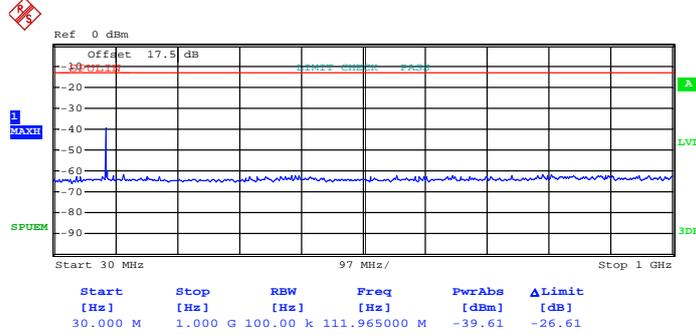


Date: 1.MAR.2013 09:58:17



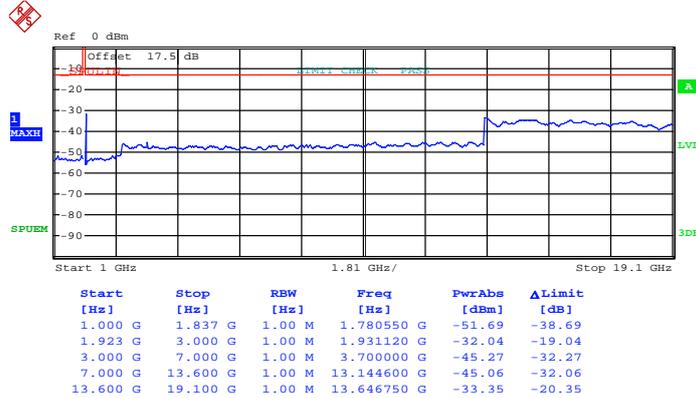
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
Frequency :	1852.5	Channel :	18625

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:11:53

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

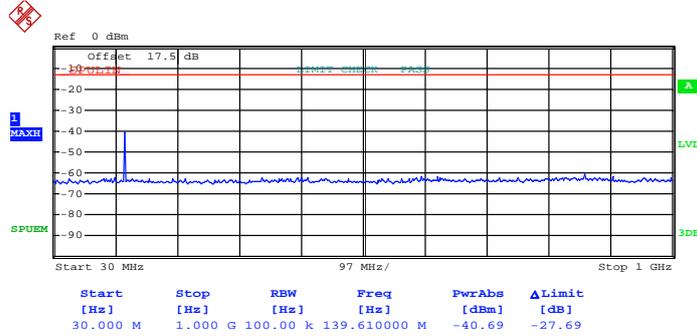


Date: 1.MAR.2013 10:10:33



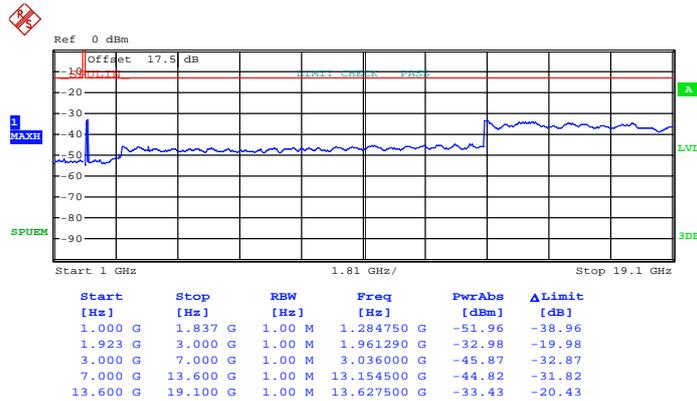
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:06:05

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

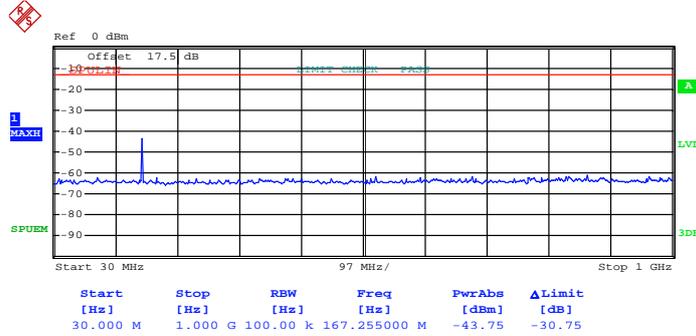


Date: 1.MAR.2013 10:05:36



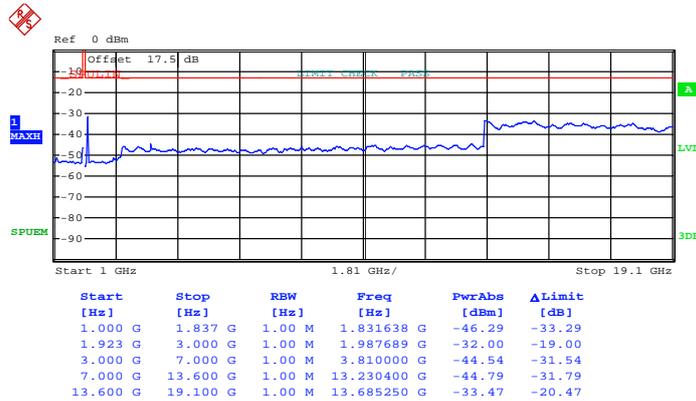
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
Frequency :	1907.5	Channel :	19175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:07:56

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

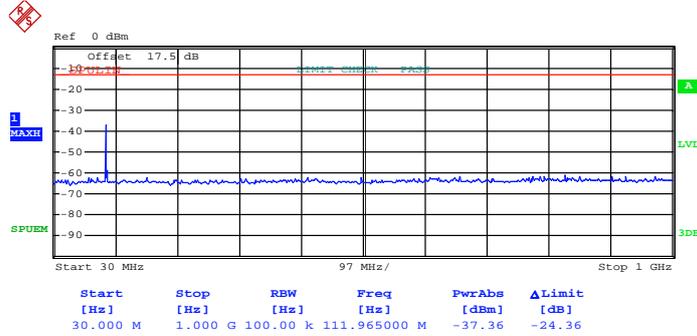


Date: 1.MAR.2013 10:08:41



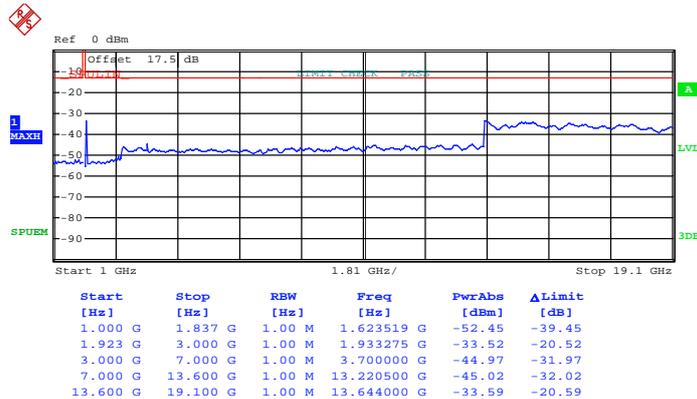
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
Frequency :	1852.5	Channel :	18625

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:12:24

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

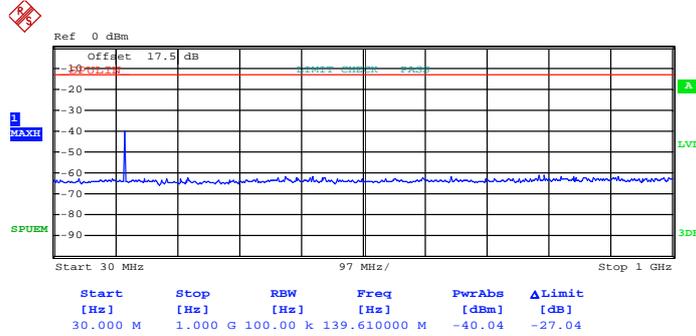


Date: 1.MAR.2013 10:10:01



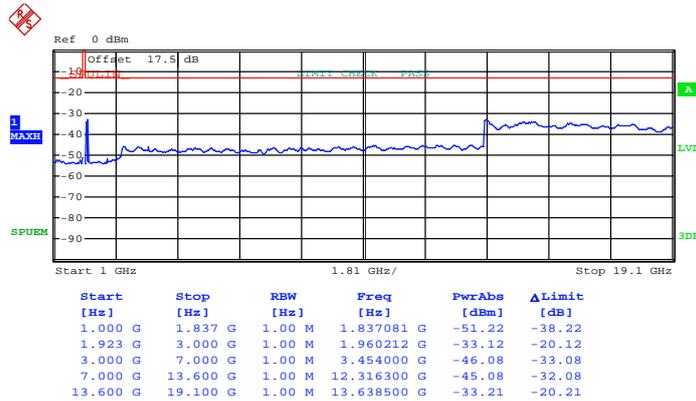
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:06:33

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

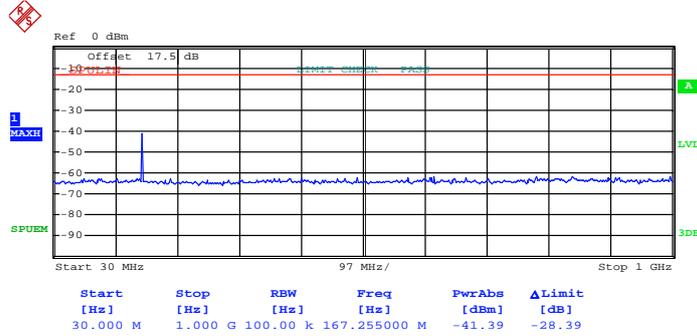


Date: 1.MAR.2013 10:04:41



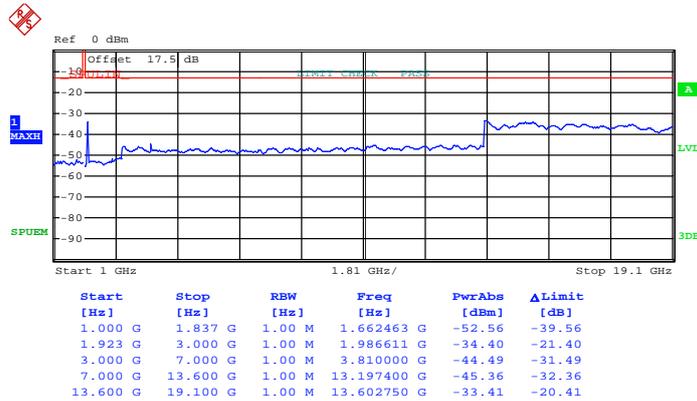
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
Frequency :	1907.5	Channel :	19175

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:07:21

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

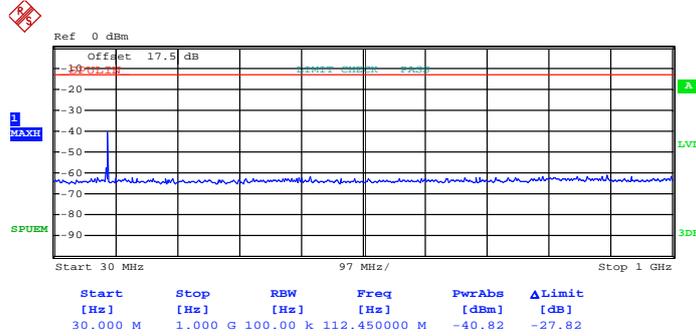


Date: 1.MAR.2013 10:09:06



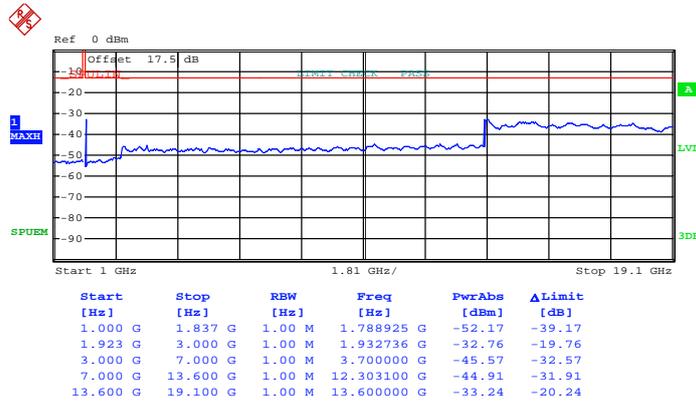
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1855	Channel :	18650

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:24:15

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

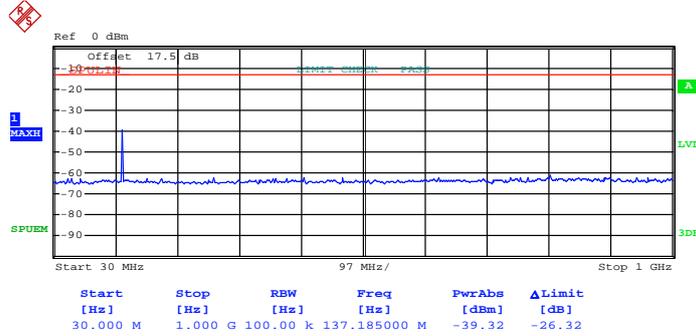


Date: 1.MAR.2013 10:25:03



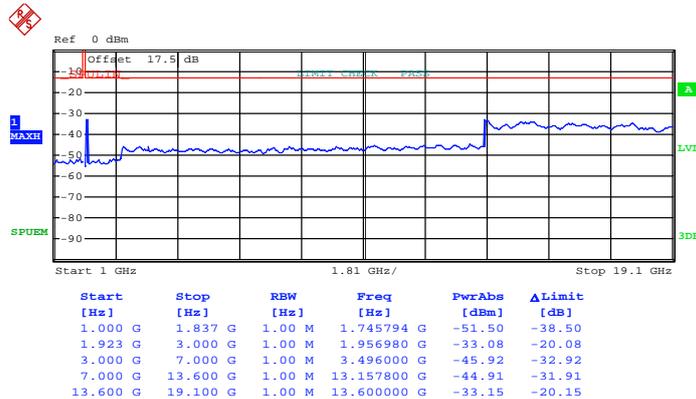
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:14:34

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

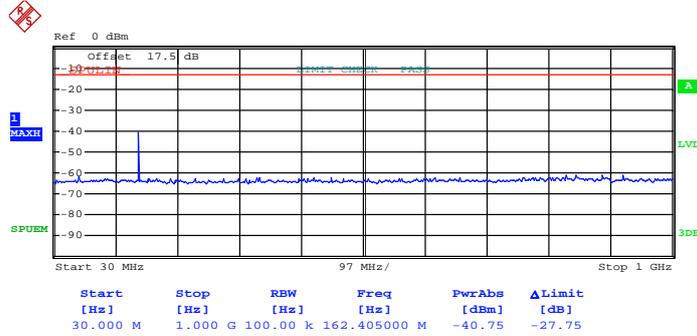


Date: 1.MAR.2013 10:15:15



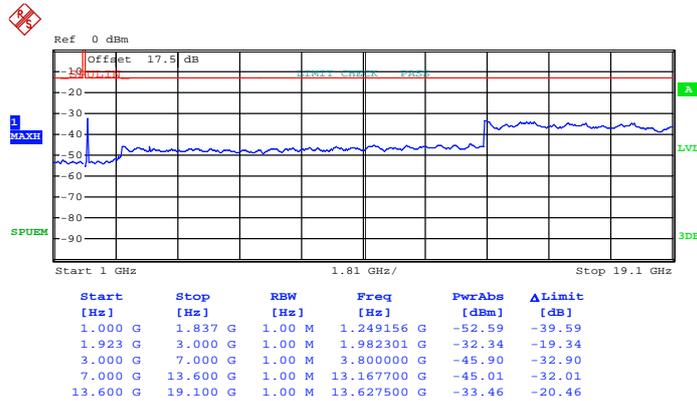
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1905	Channel :	19150

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:18:13

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

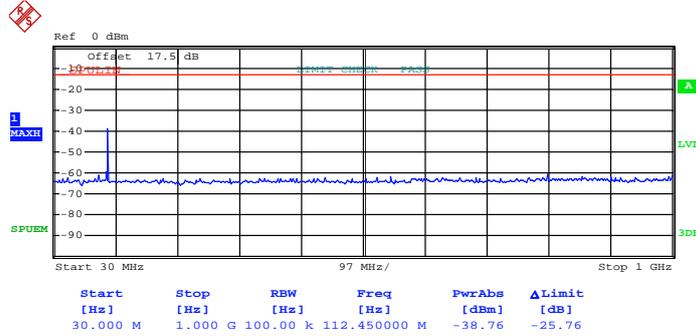


Date: 1.MAR.2013 10:17:34



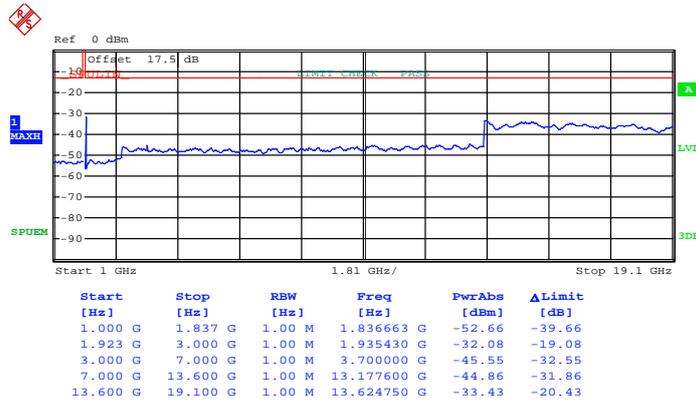
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
Frequency :	1855	Channel :	18650

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:23:49

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

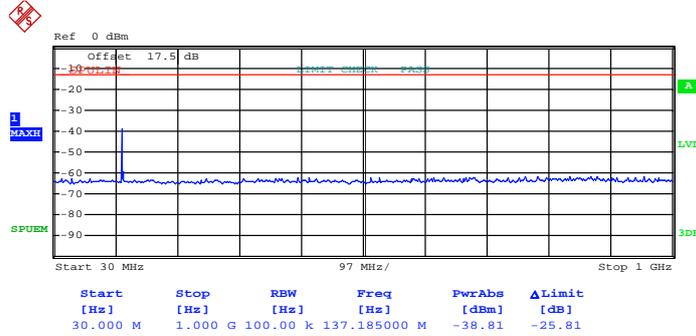


Date: 1.MAR.2013 10:25:34



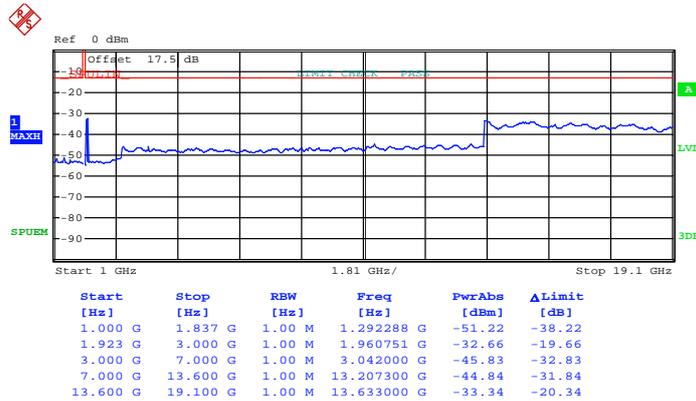
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:14:11

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

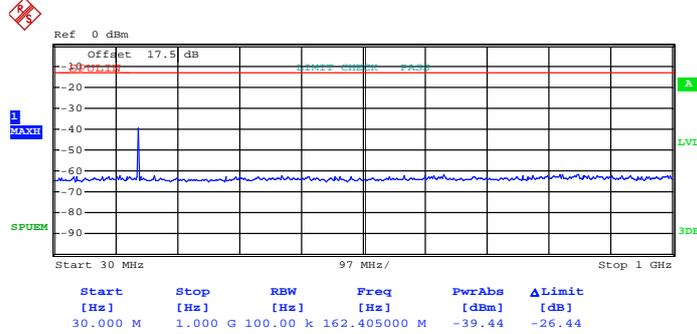


Date: 1.MAR.2013 10:15:47



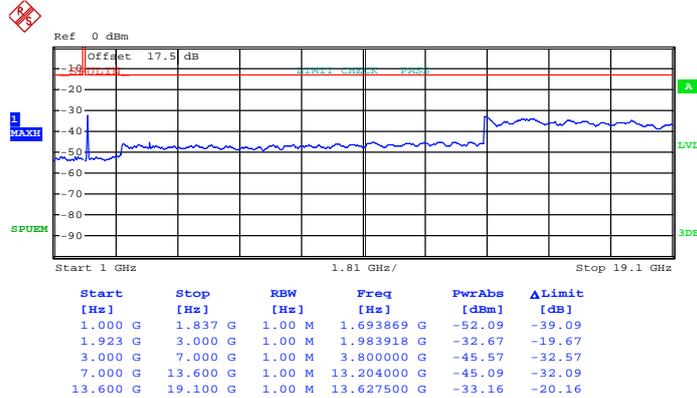
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
Frequency :	1905	Channel :	19150

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:18:49

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

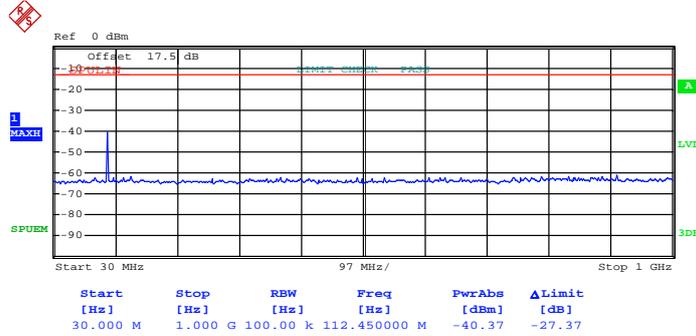


Date: 1.MAR.2013 10:16:58



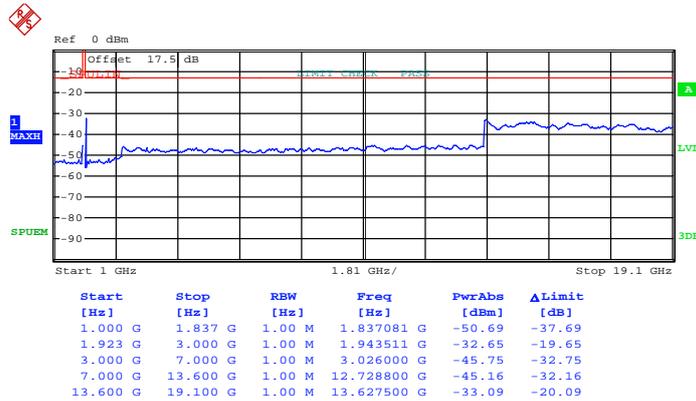
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
Frequency :	1857.5	Channel :	18675

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:42:15

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

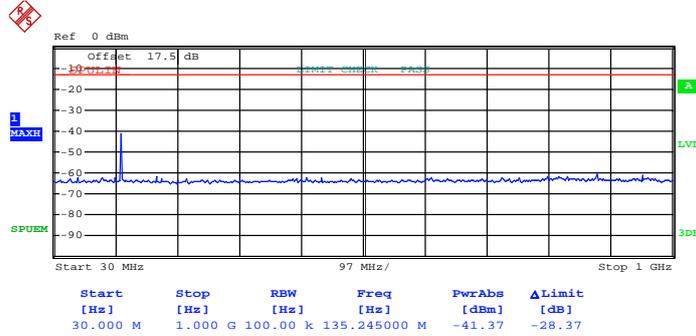


Date: 1.MAR.2013 10:41:37



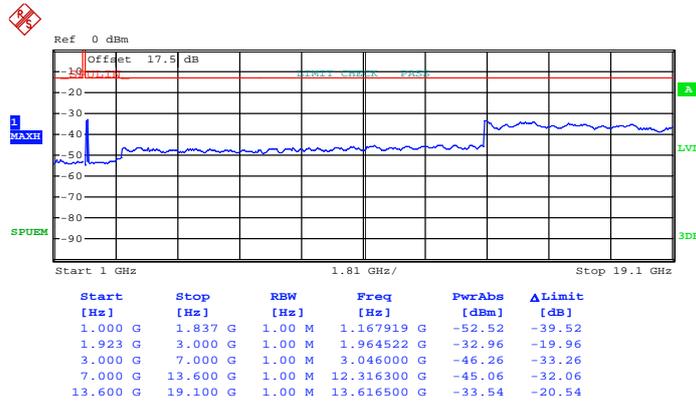
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:36:50

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

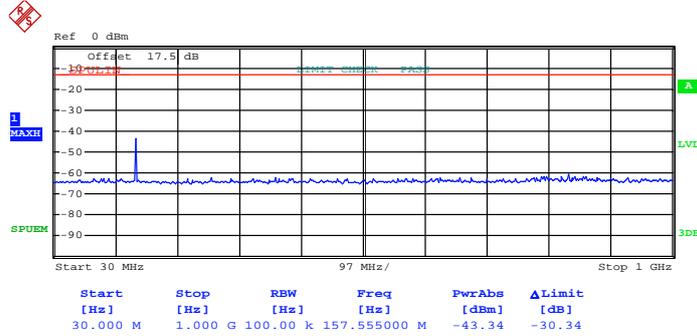


Date: 1.MAR.2013 10:36:12



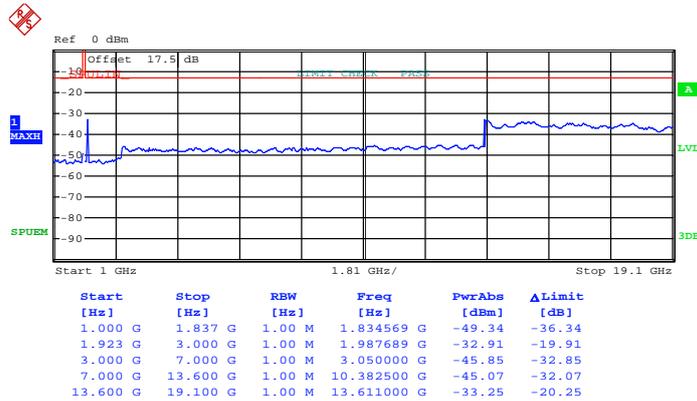
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
Frequency :	1902.5	Channel :	19125

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:38:56

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

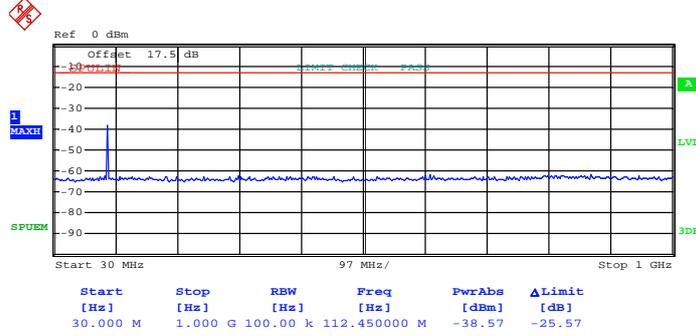


Date: 1.MAR.2013 10:39:47



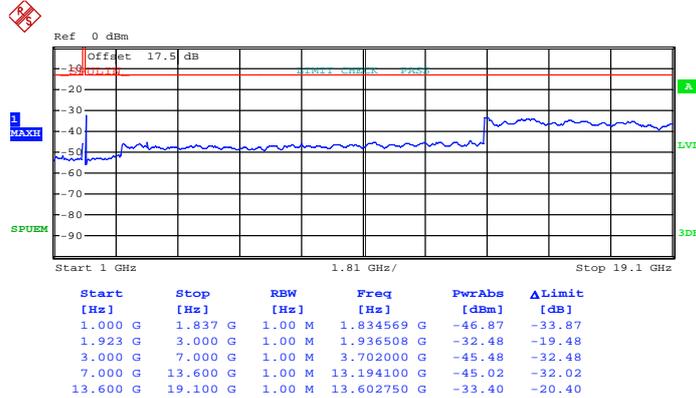
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
Frequency :	1857.5	Channel :	18675

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:42:47

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

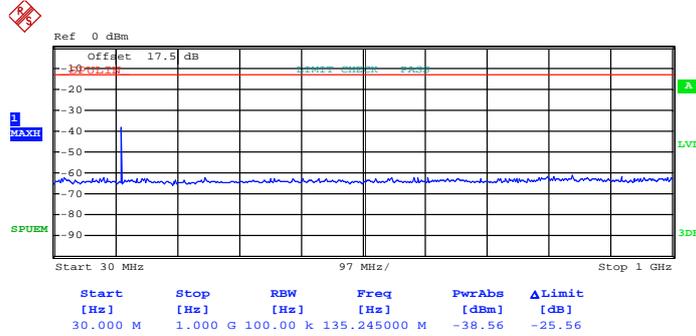


Date: 1.MAR.2013 10:41:10



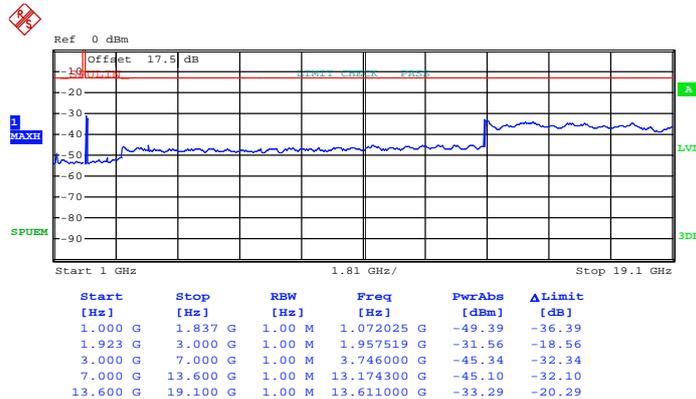
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:37:18

Conducted Emission Plot (1GHz ~ 19.1GHz) for
16-QAM (RB Size 1, RB Offset 0)

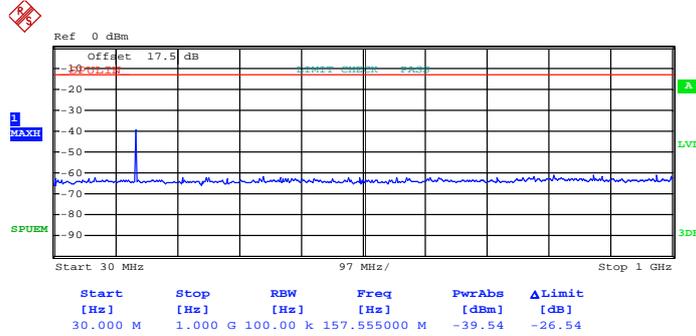


Date: 1.MAR.2013 10:35:43



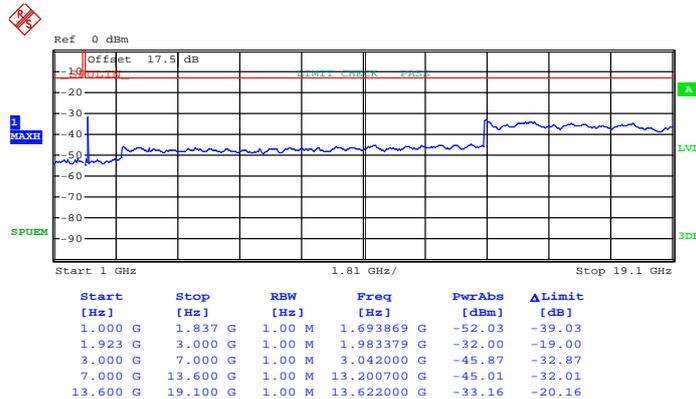
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
Frequency :	1902.5	Channel :	19125

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:38:20

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

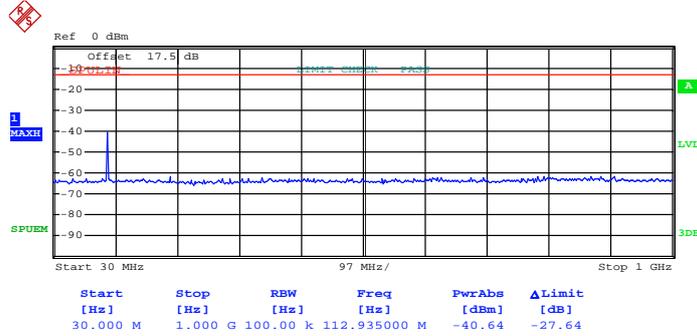


Date: 1.MAR.2013 10:40:19



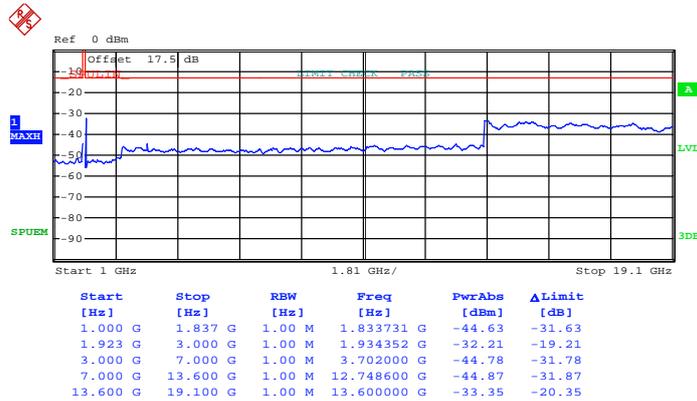
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
Frequency :	1860	Channel :	18700

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:50:44

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

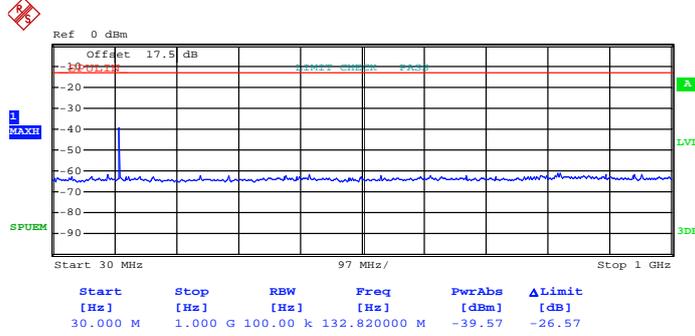


Date: 1.MAR.2013 10:51:37



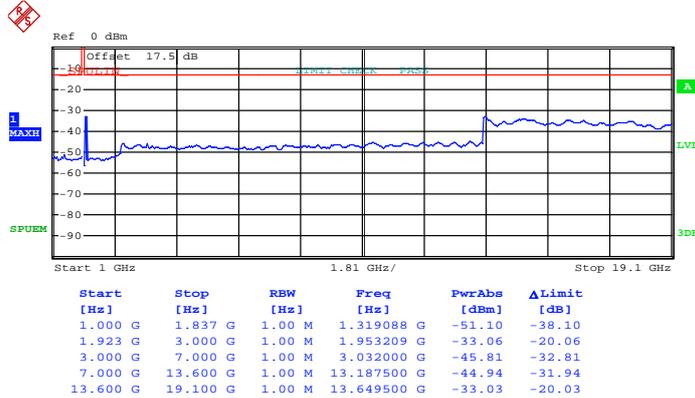
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for
QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:44:17

Conducted Emission Plot (1GHz ~ 19.1GHz) for
QPSK (RB Size 1, RB Offset 0)

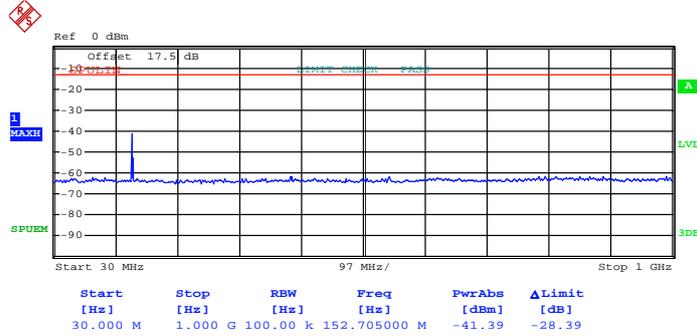


Date: 1.MAR.2013 10:45:14



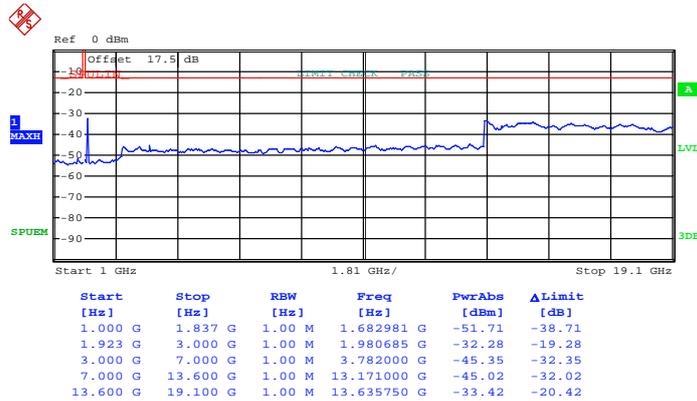
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
Frequency :	1900	Channel :	19100

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:48:18

Conducted Emission Plot (1GHz ~ 19.1GHz) for QPSK (RB Size 1, RB Offset 0)

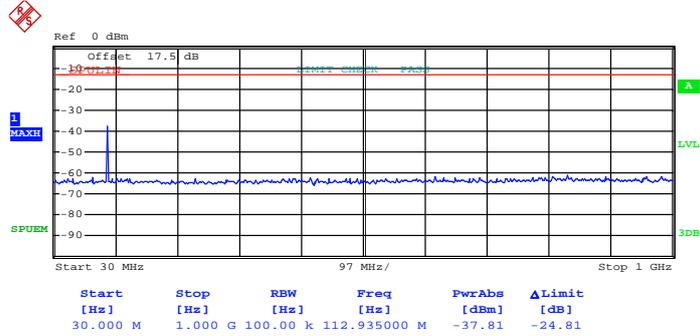


Date: 1.MAR.2013 10:47:43



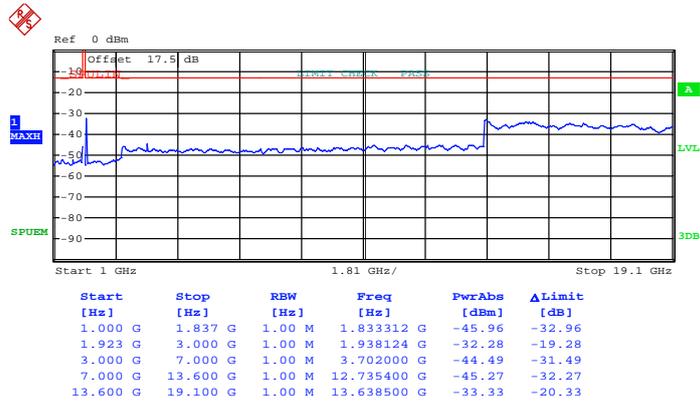
Band :	LTE Band 2	BW / Mod. :	20MHz / 16QAM
Frequency :	1860	Channel :	18700

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:50:01

Conducted Emission Plot (1GHz ~ 19.1GHz) for
16-QAM (RB Size 1, RB Offset 0)

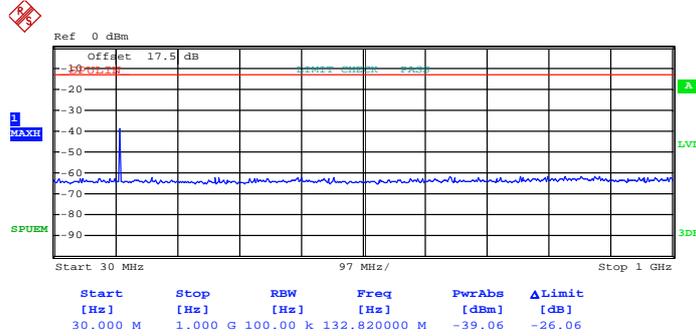


Date: 1.MAR.2013 10:52:04



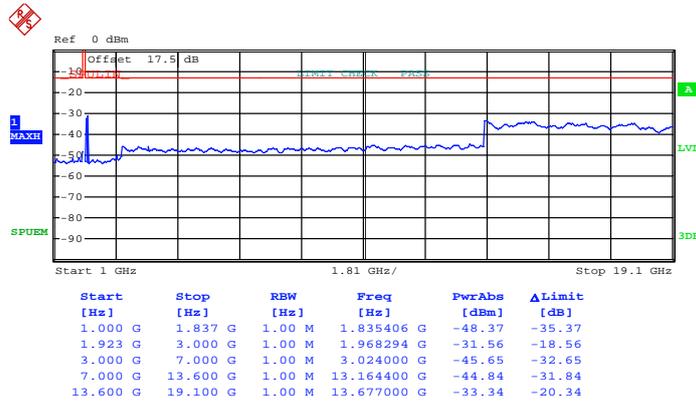
Band :	LTE Band 2	BW / Mod. :	20MHz / 16QAM
Frequency :	1880	Channel :	18900

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:43:50

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

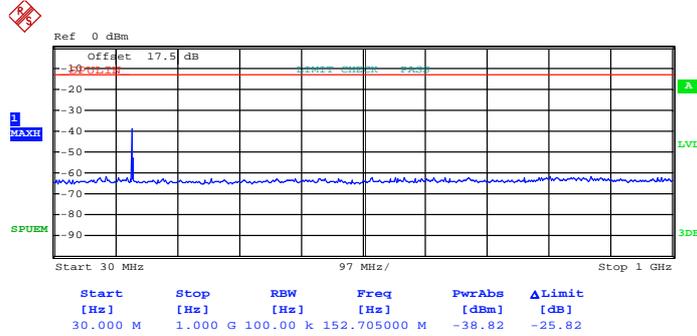


Date: 1.MAR.2013 10:46:03



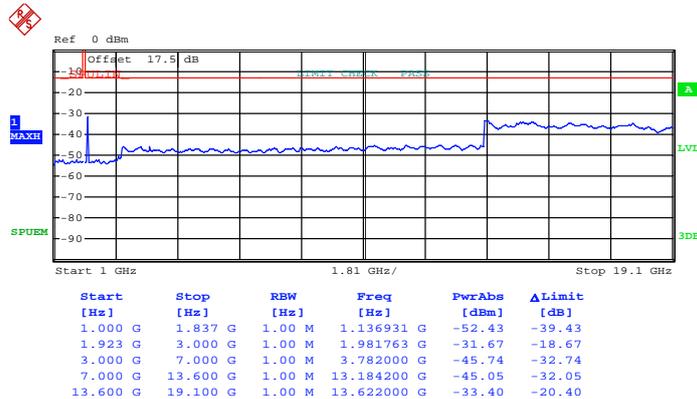
Band :	LTE Band 2	BW / Mod. :	20MHz / 16QAM
Frequency :	1900	Channel :	19100

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 10:48:57

Conducted Emission Plot (1GHz ~ 19.1GHz) for 16-QAM (RB Size 1, RB Offset 0)

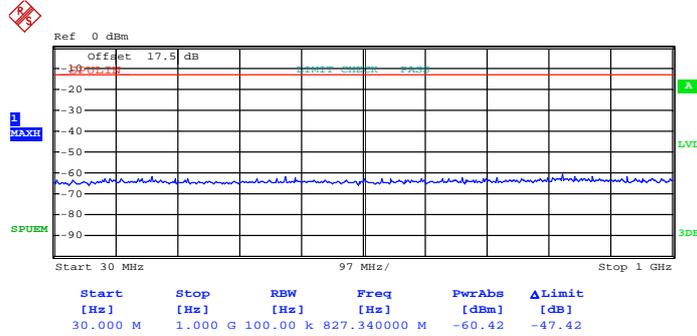


Date: 1.MAR.2013 10:47:20



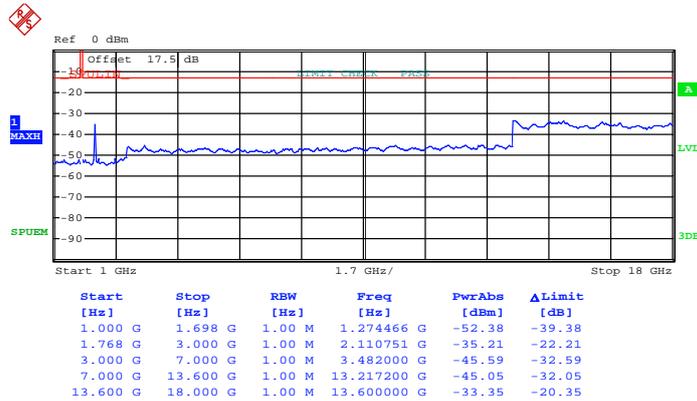
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
Frequency :	1710.7	Channel :	19957

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:36:26

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

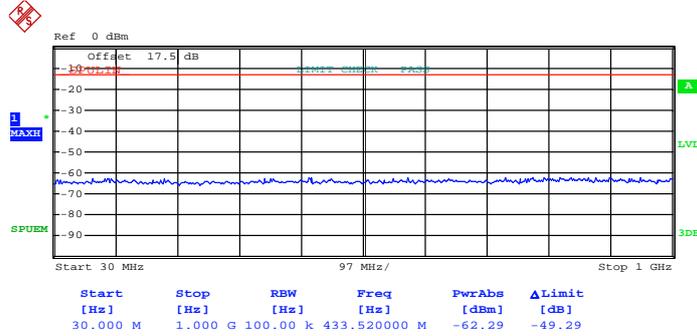


Date: 1.MAR.2013 09:38:04



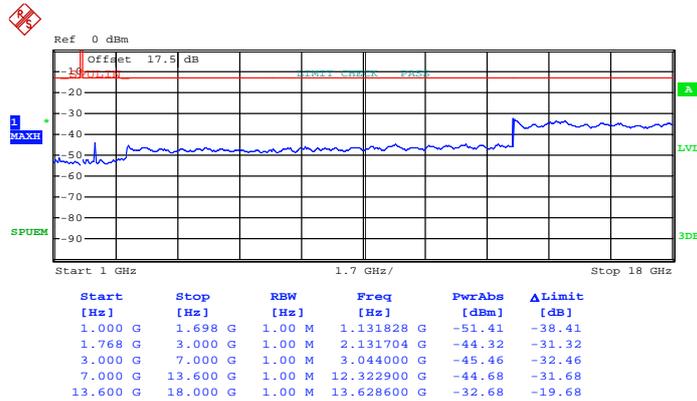
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 19:00:16

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

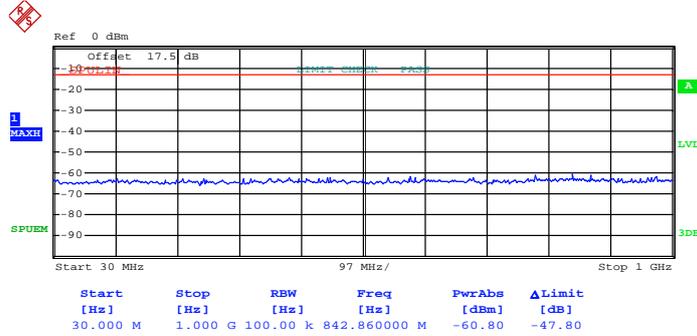


Date: 28.FEB.2013 19:01:40



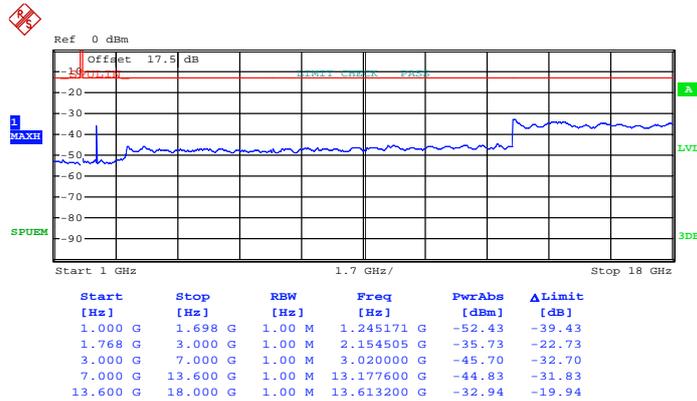
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
Frequency :	1754.3	Channel :	20393

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:39:26

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

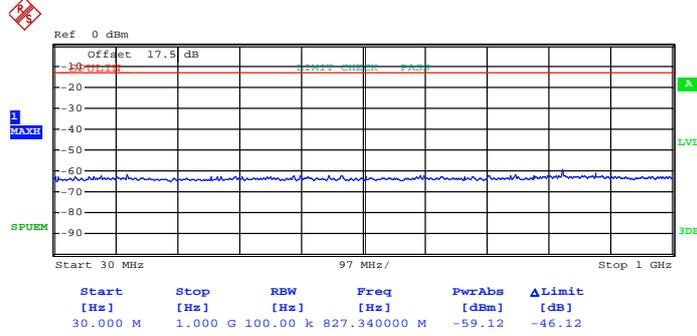


Date: 1.MAR.2013 09:41:15



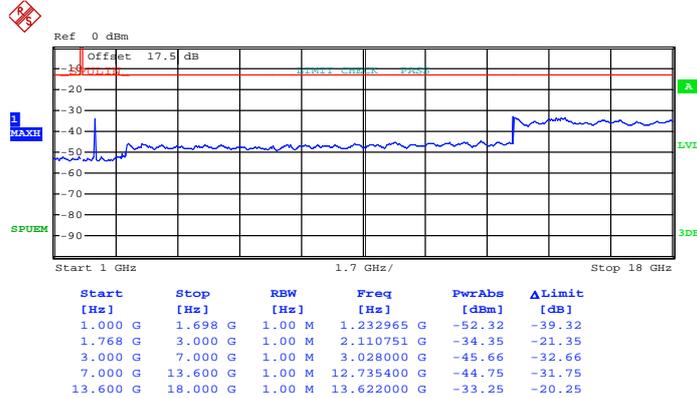
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1710.7	Channel :	19957

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:37:01

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

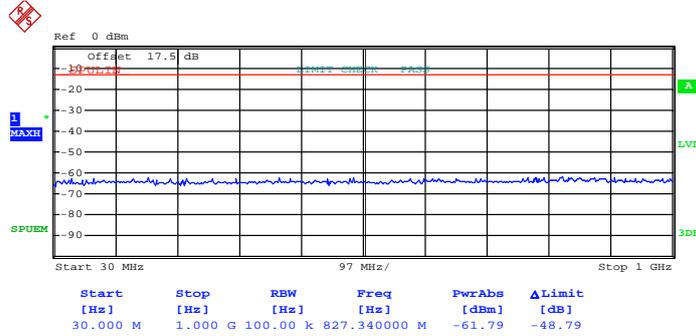


Date: 1.MAR.2013 09:37:42



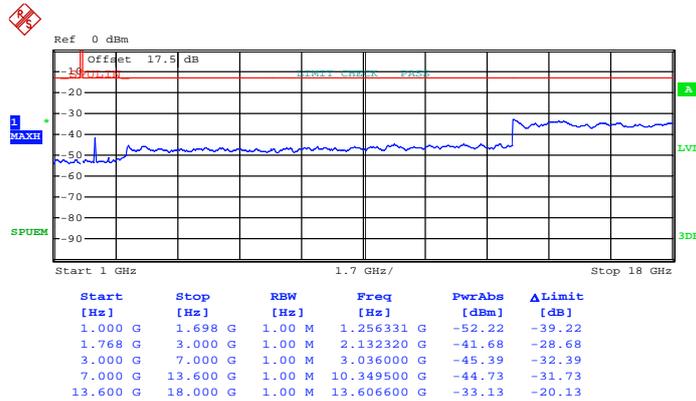
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 19:00:43

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

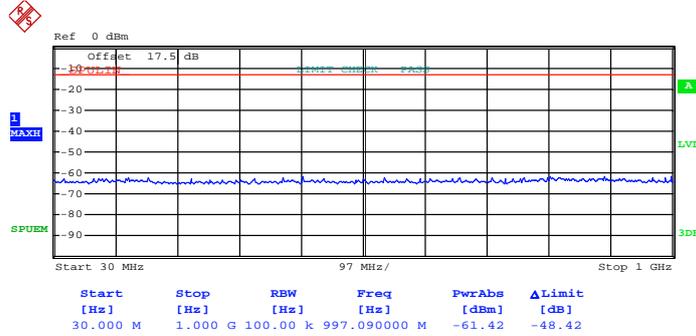


Date: 28.FEB.2013 19:01:23



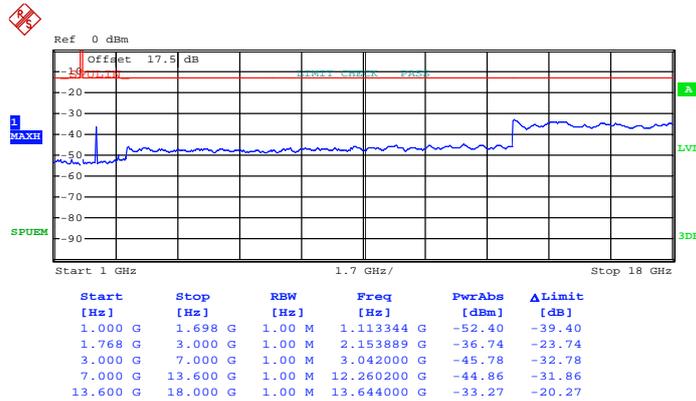
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1754.3	Channel :	20393

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:40:17

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

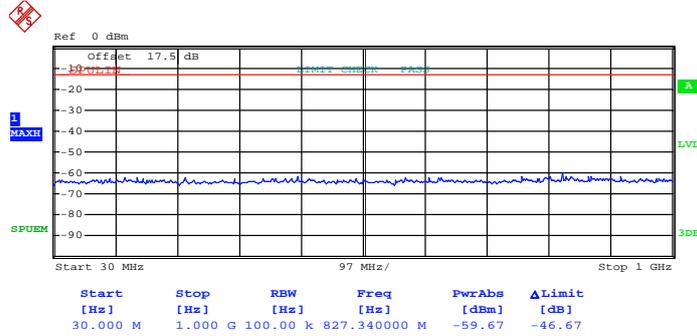


Date: 1.MAR.2013 09:40:50



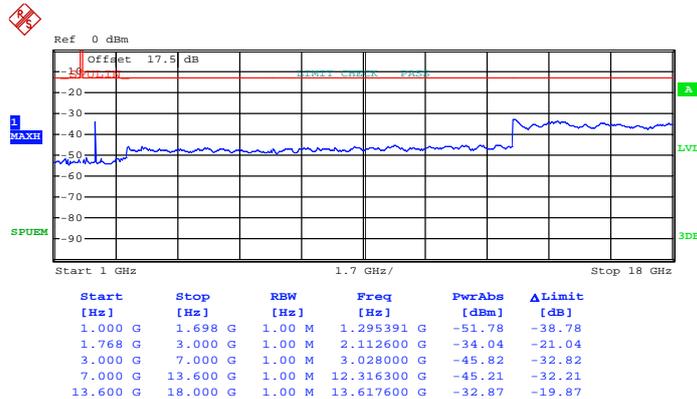
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
Frequency :	1711.5	Channel :	19965

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:35:30

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

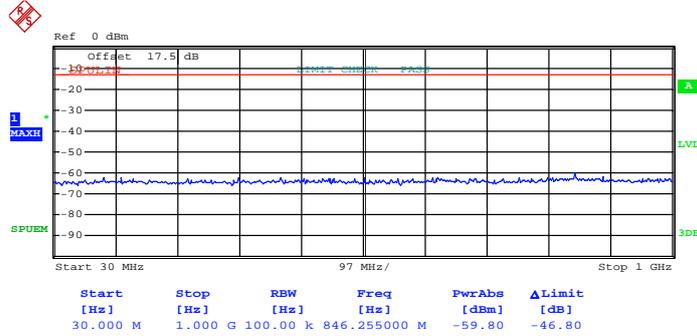


Date: 1.MAR.2013 09:34:05



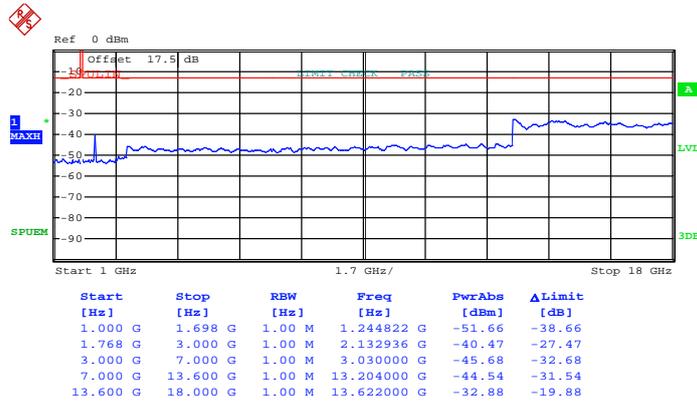
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 19:03:48

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

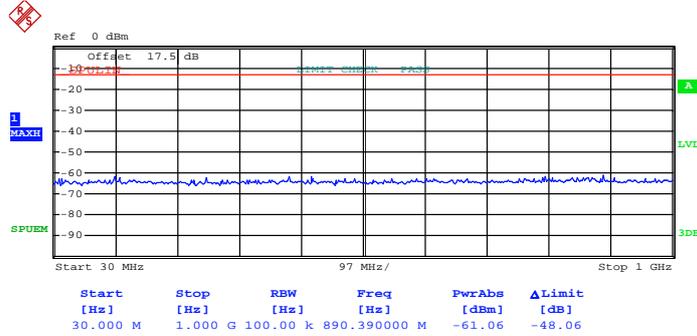


Date: 28.FEB.2013 19:02:27



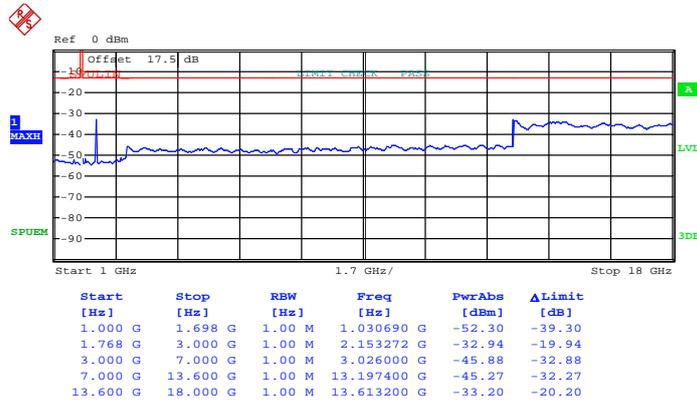
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
Frequency :	1753.5	Channel :	20385

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:32:05

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

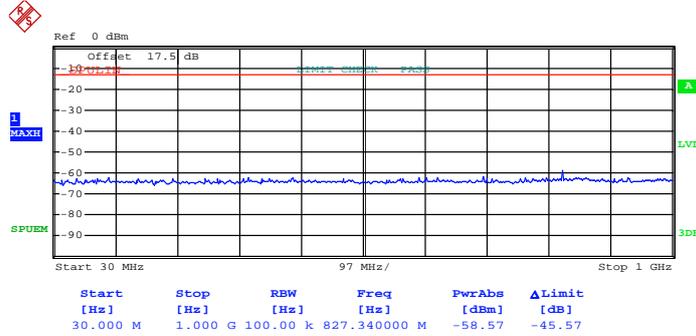


Date: 1.MAR.2013 09:33:19



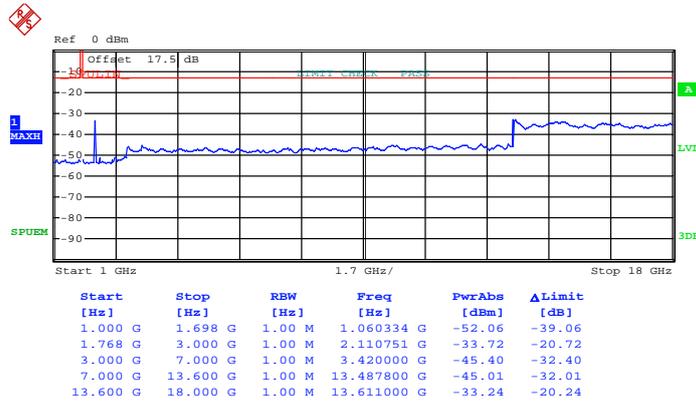
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
Frequency :	1711.5	Channel :	19965

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:35:07

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

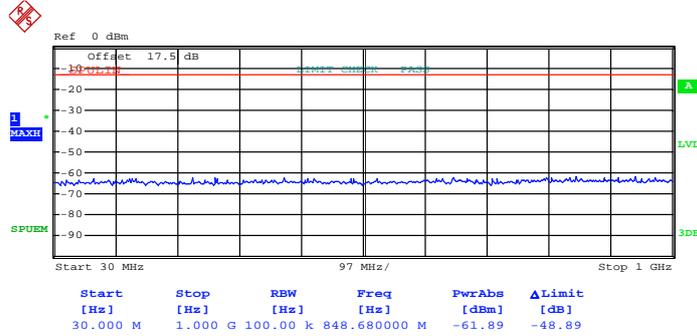


Date: 1.MAR.2013 09:34:32



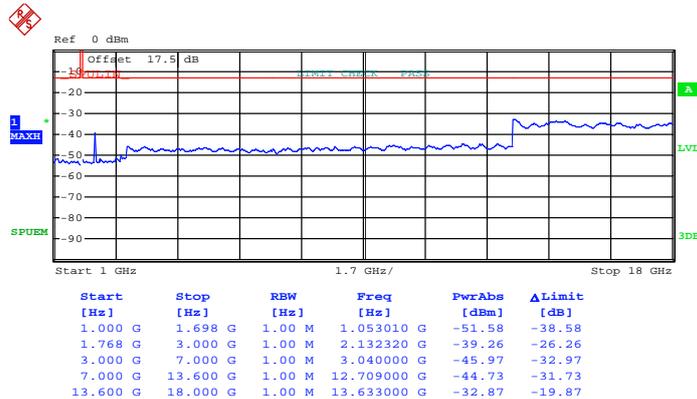
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 19:03:23

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

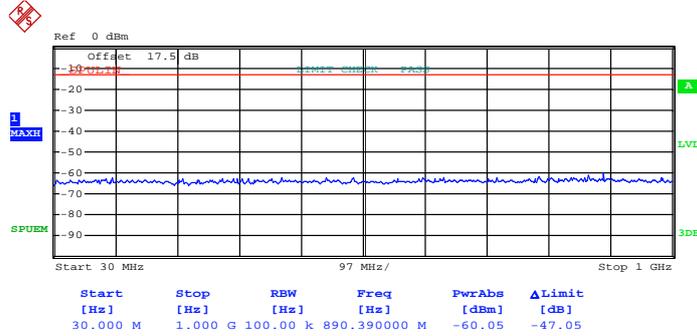


Date: 28.FEB.2013 19:02:57



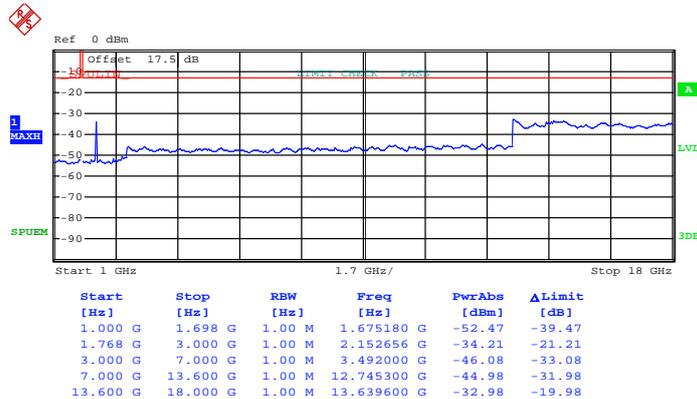
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
Frequency :	1753.5	Channel :	20385

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:32:24

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

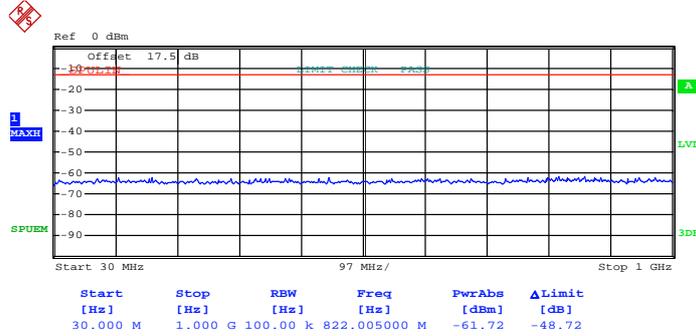


Date: 1.MAR.2013 09:32:55



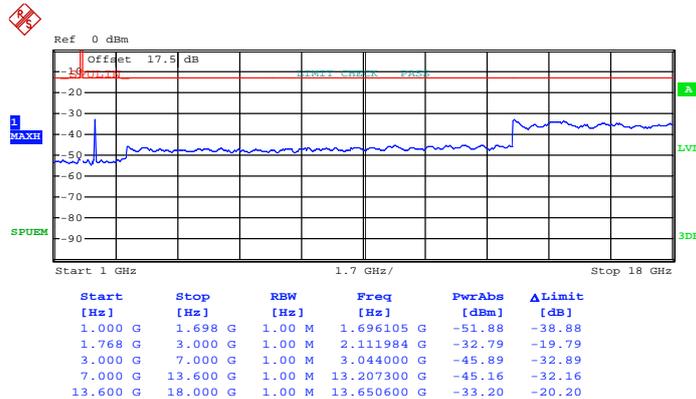
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
Frequency :	1712.5	Channel :	19975

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:20:33

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

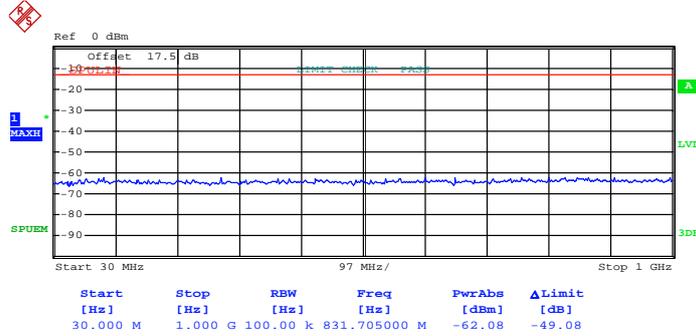


Date: 1.MAR.2013 09:22:17



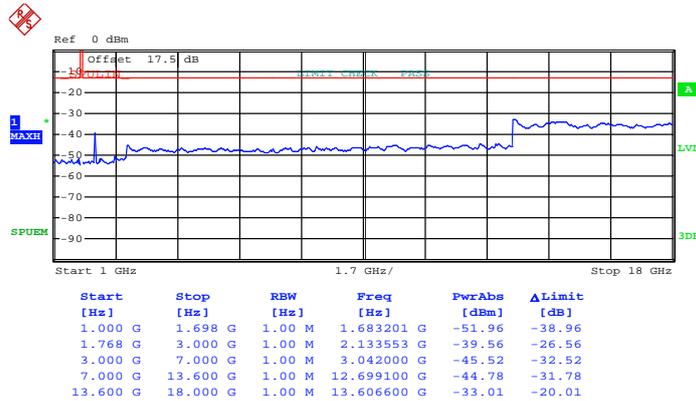
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 19:04:30

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

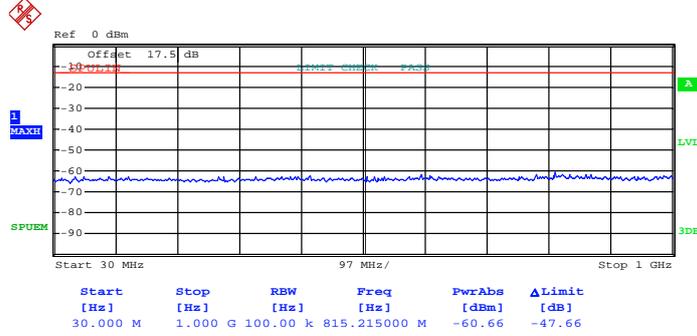


Date: 28.FEB.2013 19:06:32



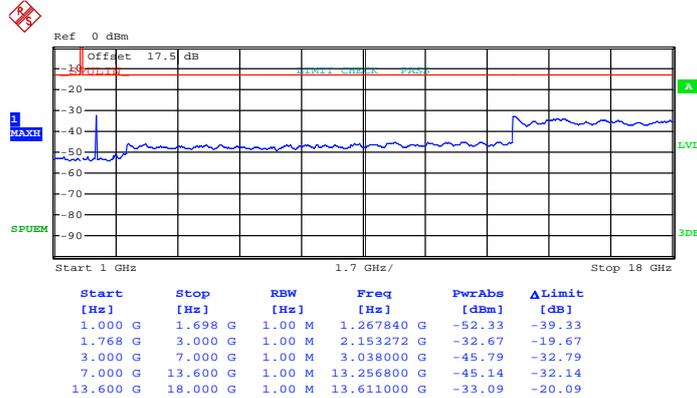
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
Frequency :	1752.5	Channel :	20375

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:25:32

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

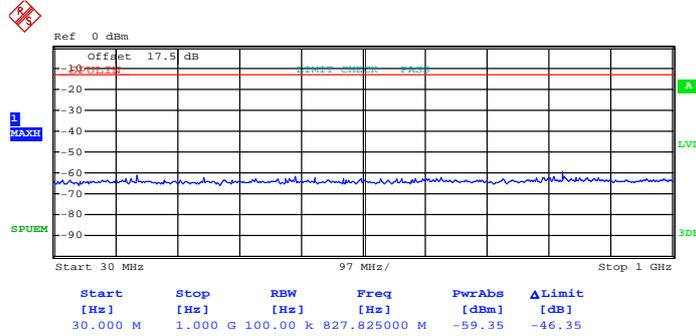


Date: 1.MAR.2013 09:23:42



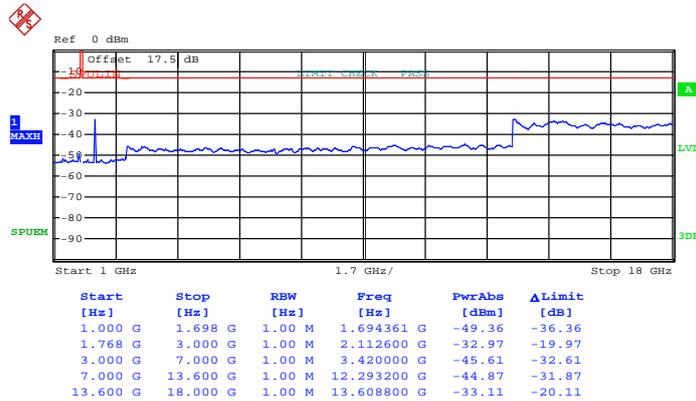
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
Frequency :	1712.5	Channel :	19975

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:21:00

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

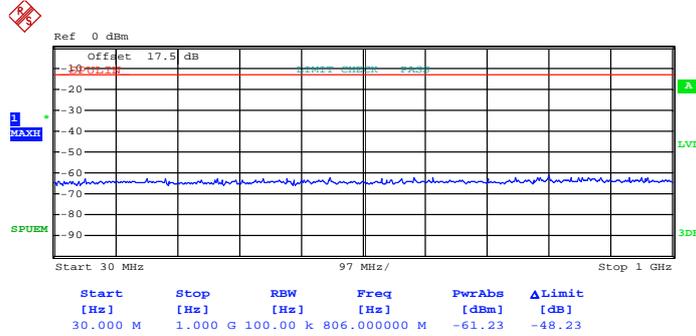


Date: 1.MAR.2013 09:21:46



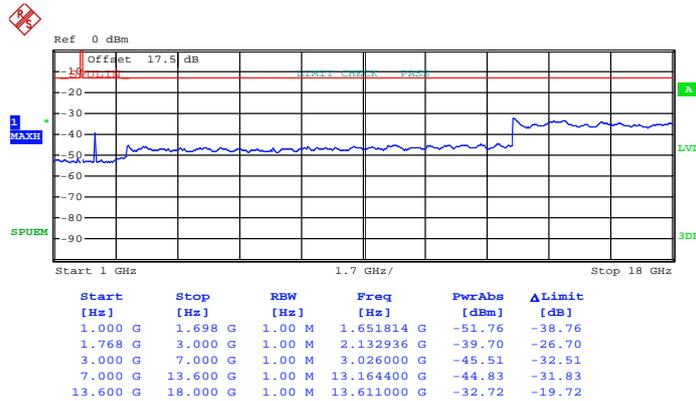
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 19:05:26

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

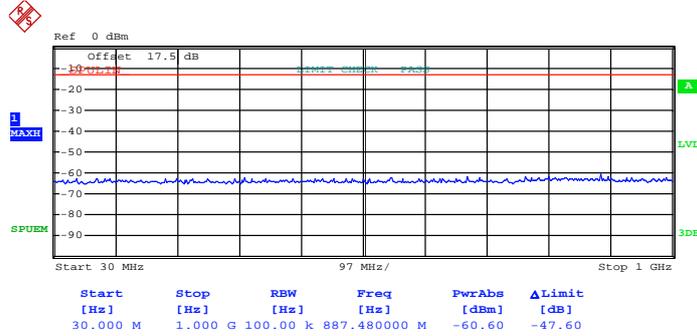


Date: 28.FEB.2013 19:06:06



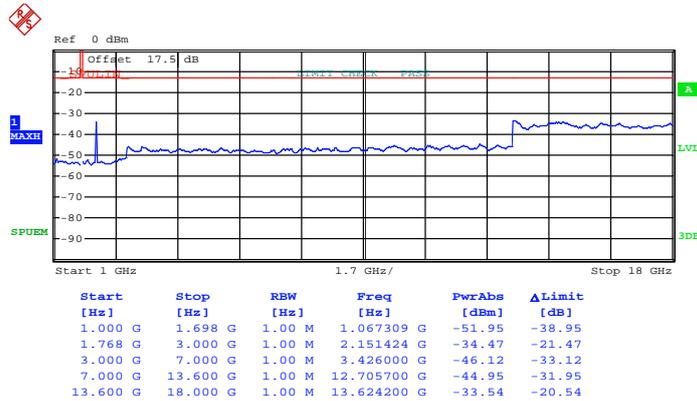
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
Frequency :	1752.5	Channel :	20375

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:25:08

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

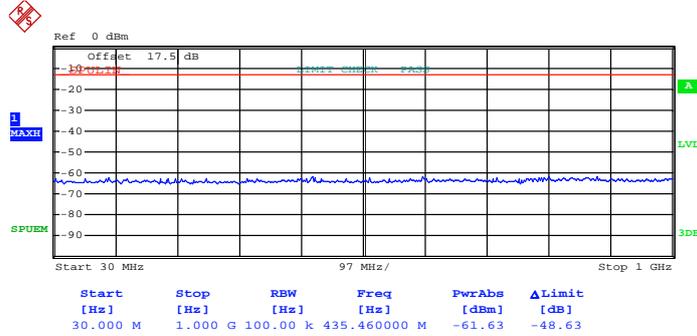


Date: 1.MAR.2013 09:24:38



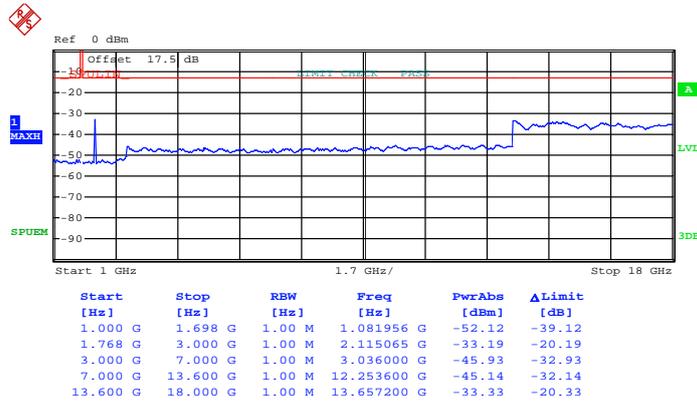
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
Frequency :	1715	Channel :	20000

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 49)



Date: 1.MAR.2013 11:04:09

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 49)

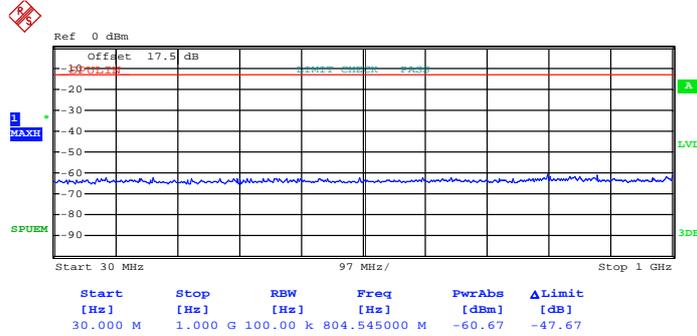


Date: 1.MAR.2013 11:03:38



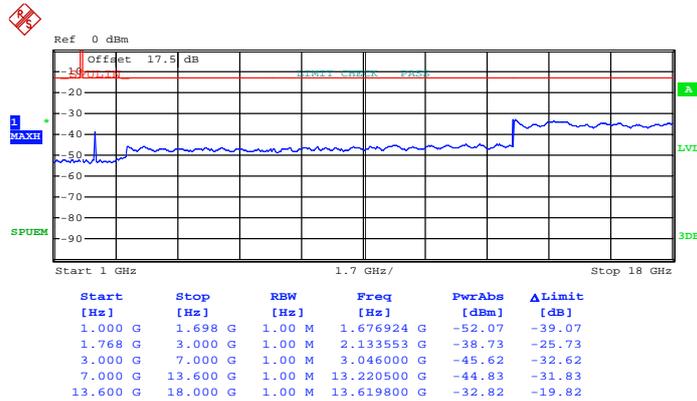
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 18:52:50

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

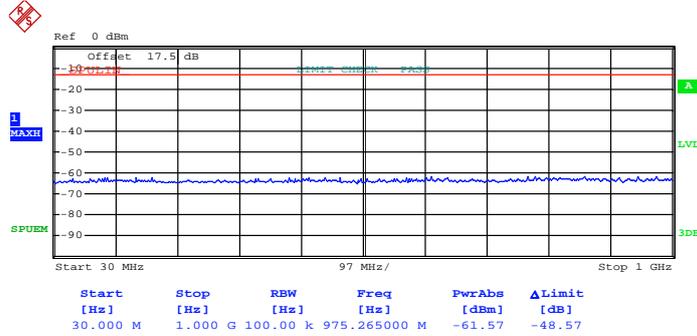


Date: 28.FEB.2013 18:51:20



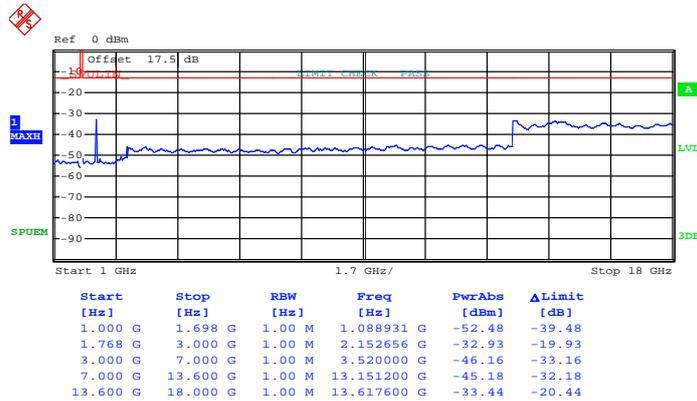
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
Frequency :	1750	Channel :	20350

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:14:10

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

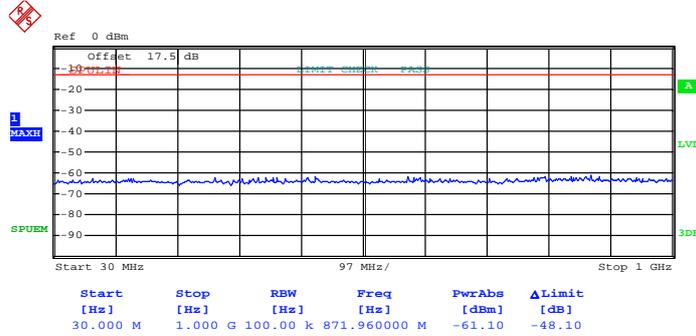


Date: 1.MAR.2013 09:17:42



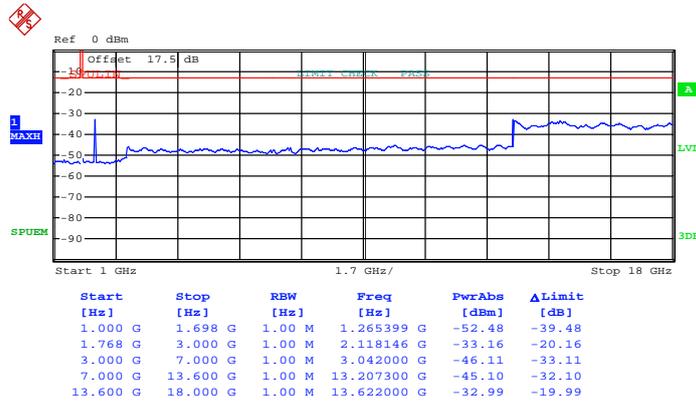
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
Frequency :	1715	Channel :	20000

**Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 49)**



Date: 1.MAR.2013 11:04:33

**Conducted Emission Plot (1GHz ~ 18GHz) for
16-QAM (RB Size 1, RB Offset 49)**

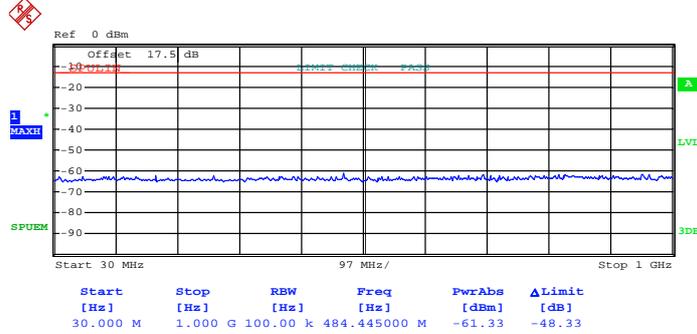


Date: 1.MAR.2013 11:03:09



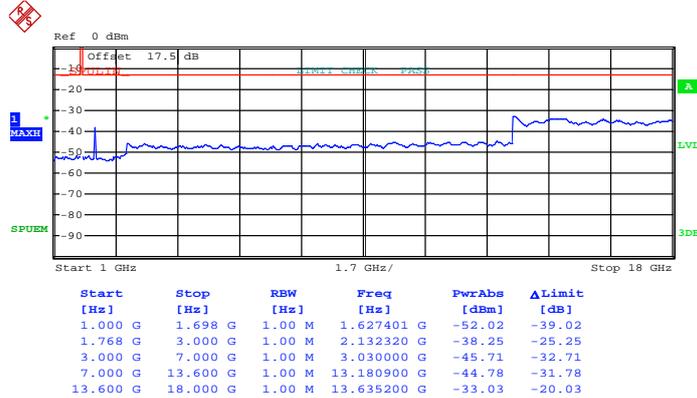
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 18:52:18

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

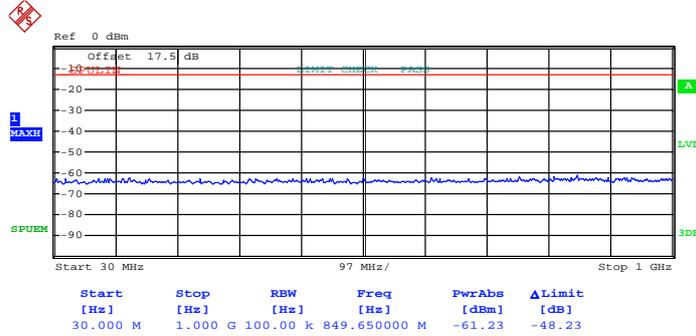


Date: 28.FEB.2013 18:51:44



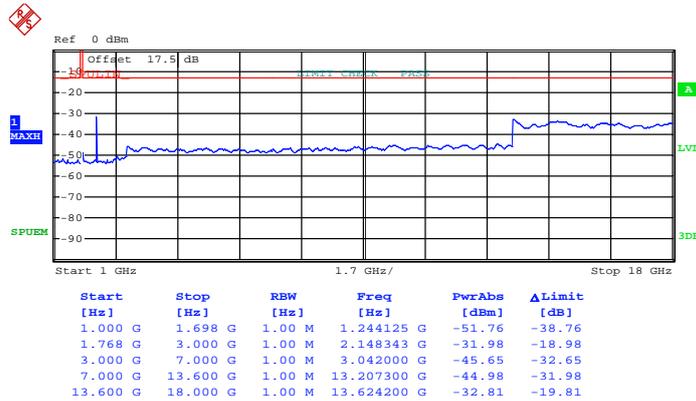
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
Frequency :	1750	Channel :	20350

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:14:30

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

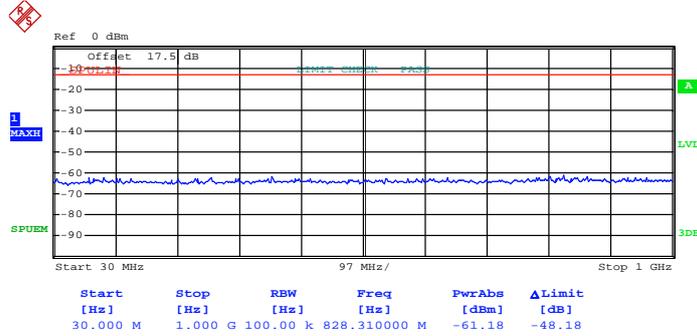


Date: 1.MAR.2013 09:15:15



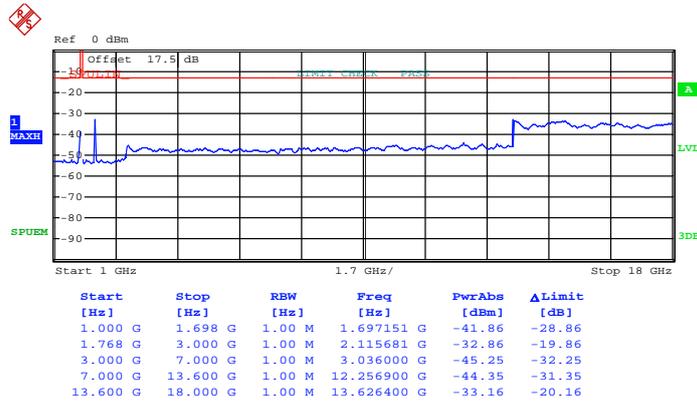
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
Frequency :	1717.5	Channel :	20025

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:11:13

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

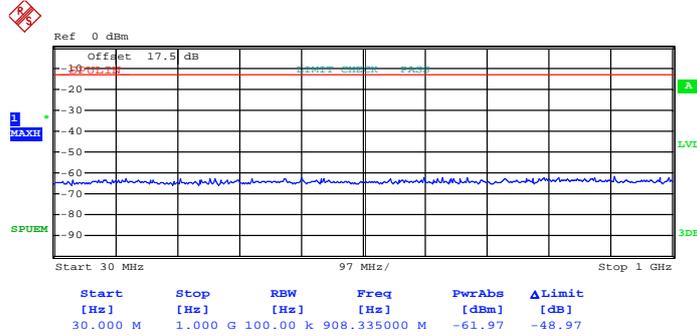


Date: 1.MAR.2013 09:09:51



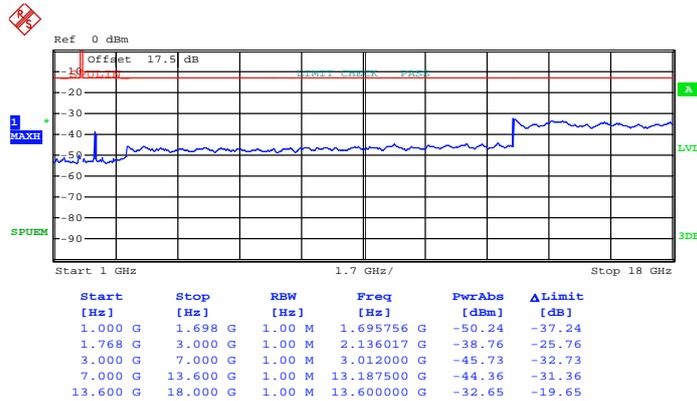
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 18:54:26

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

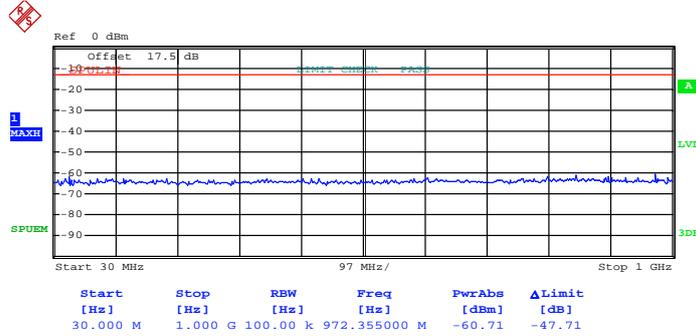


Date: 28.FEB.2013 18:56:12



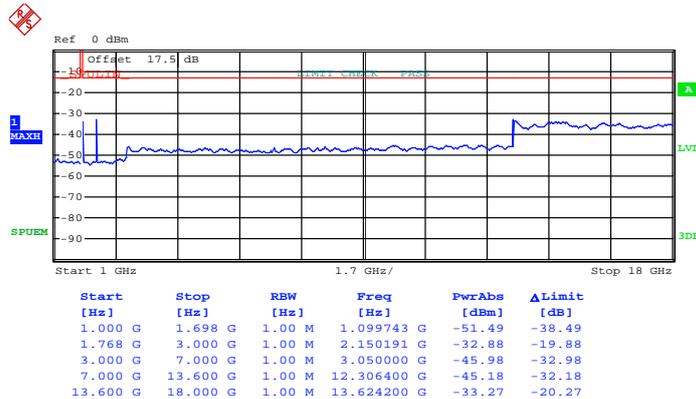
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
Frequency :	1747.5	Channel :	20325

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:07:29

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

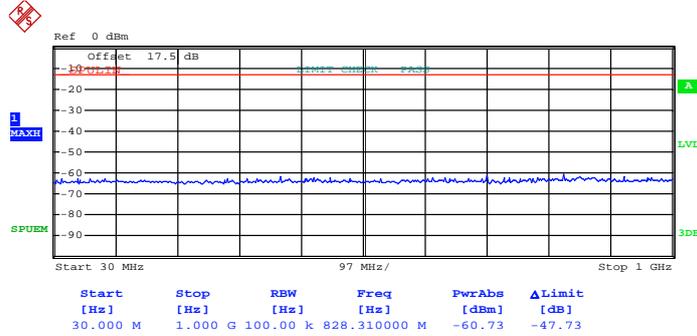


Date: 1.MAR.2013 09:08:46



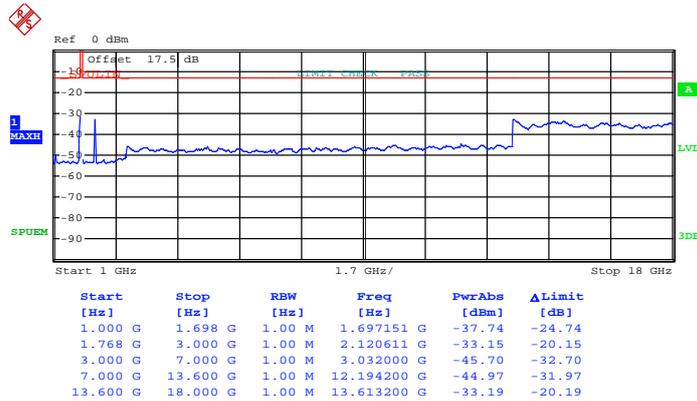
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
Frequency :	1717.5	Channel :	20025

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:10:52

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

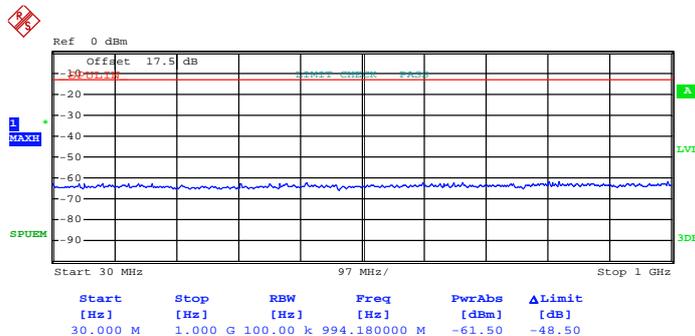


Date: 1.MAR.2013 09:10:21



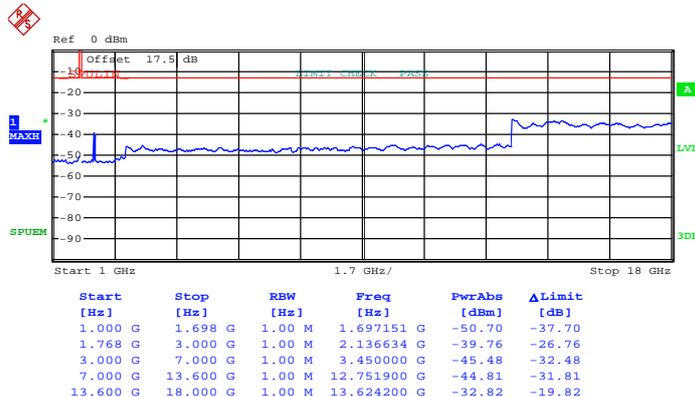
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 18:55:03

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

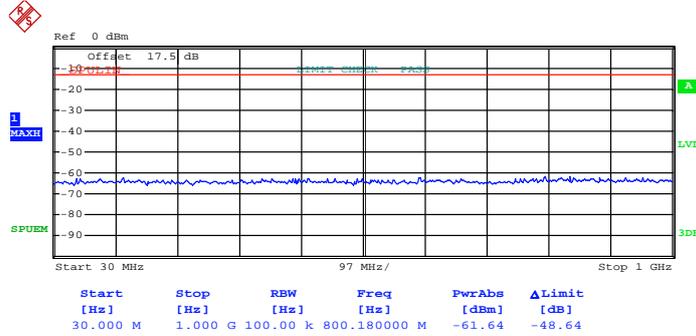


Date: 28.FEB.2013 18:55:38



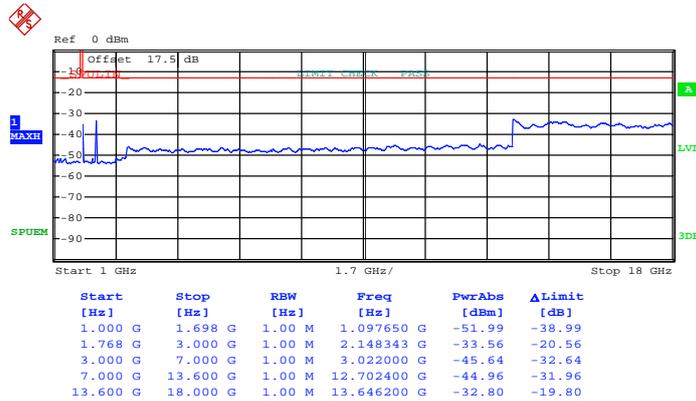
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
Frequency :	1747.5	Channel :	20325

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:07:49

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

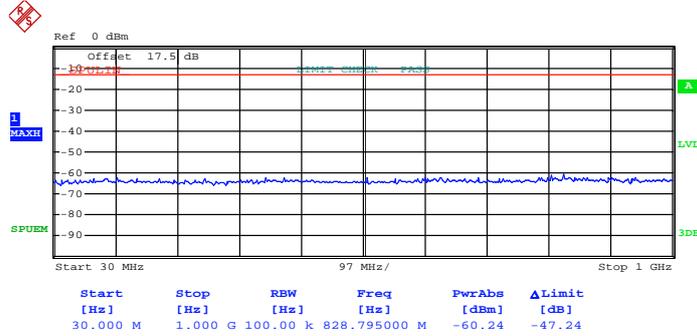


Date: 1.MAR.2013 09:08:20



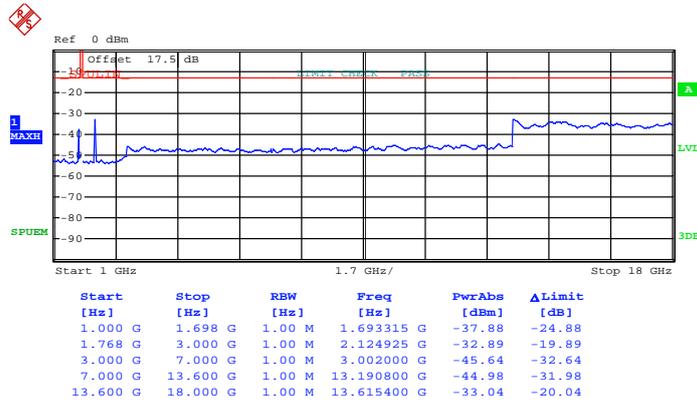
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
Frequency :	1720	Channel :	20050

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:01:37

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

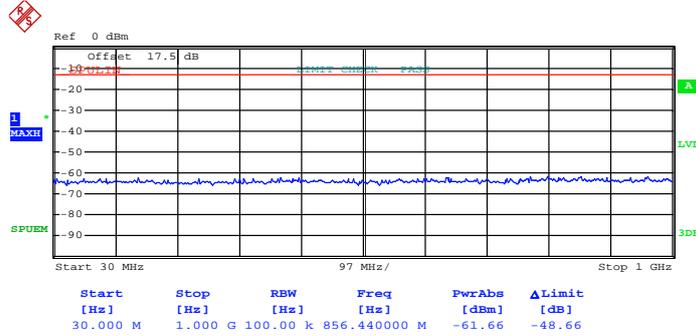


Date: 1.MAR.2013 09:03:15



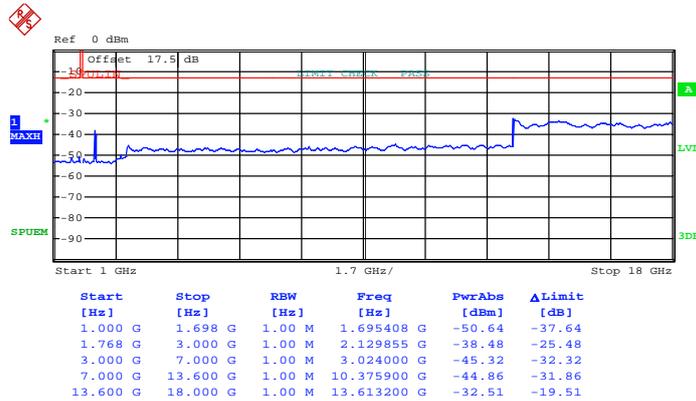
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 18:59:16

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

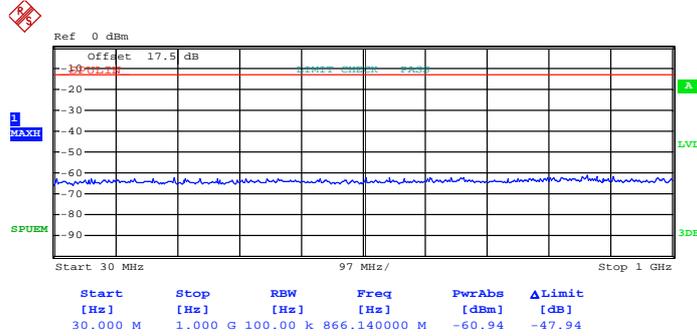


Date: 28.FEB.2013 18:57:08



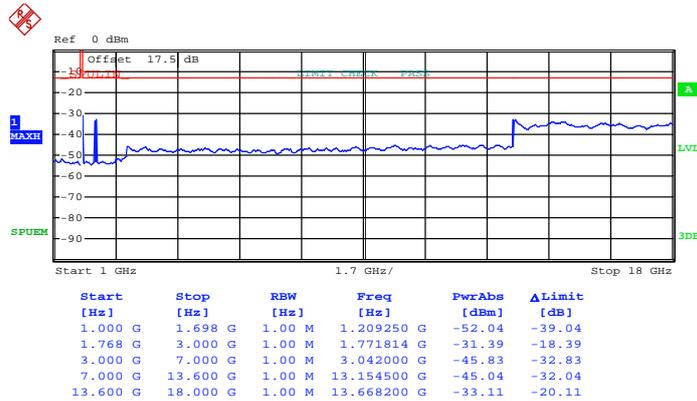
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
Frequency :	1745	Channel :	20300

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:06:23

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

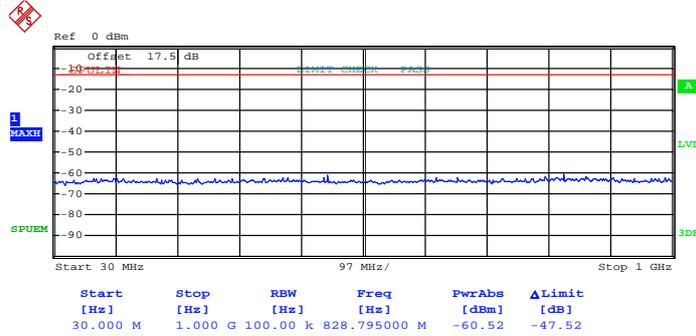


Date: 1.MAR.2013 09:05:14



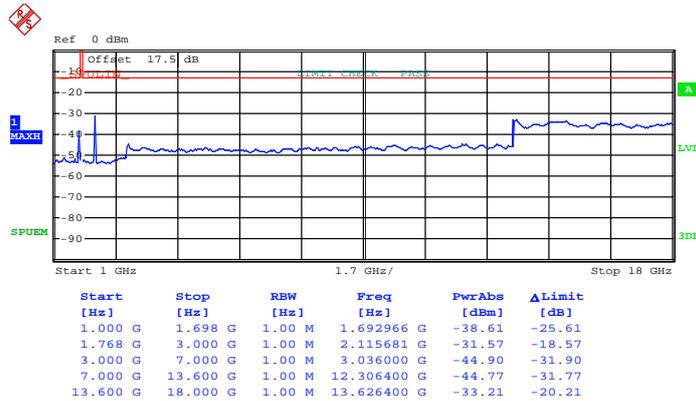
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
Frequency :	1720	Channel :	20050

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:01:59

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

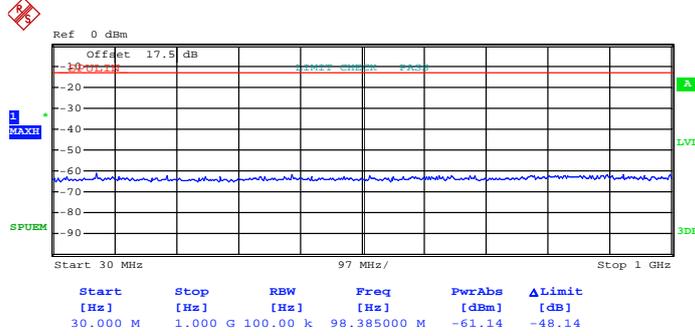


Date: 1.MAR.2013 09:02:43



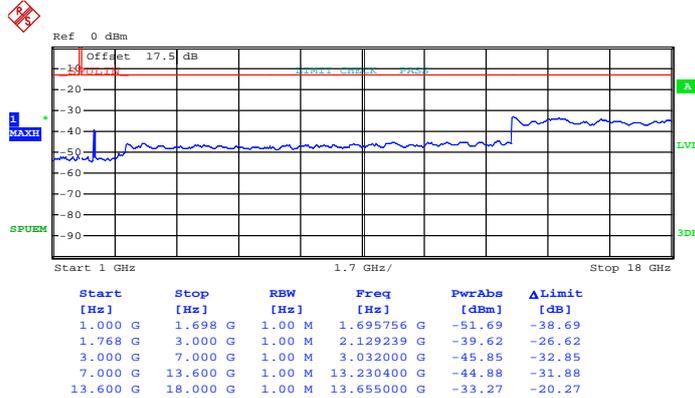
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 18:58:44

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

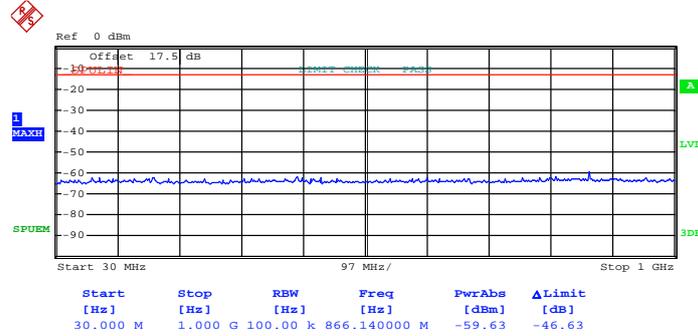


Date: 28.FEB.2013 18:57:57



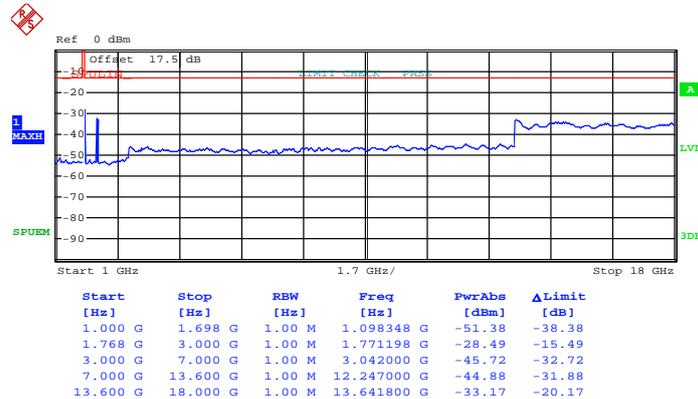
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
Frequency :	1745	Channel :	20300

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 0)



Date: 1.MAR.2013 09:06:01

Conducted Emission Plot (1GHz ~ 18GHz) for
16-QAM (RB Size 1, RB Offset 0)

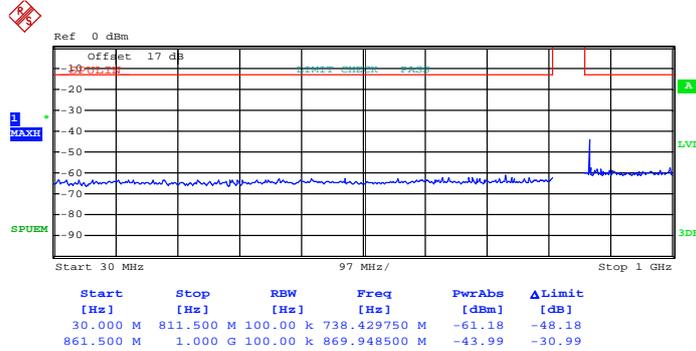


Date: 1.MAR.2013 09:05:35



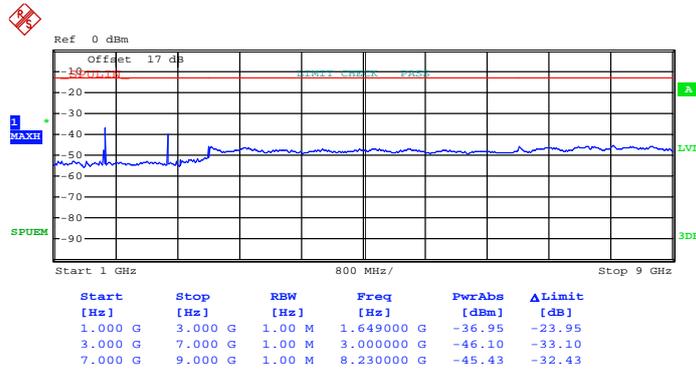
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
Frequency :	824.7	Channel :	20407

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:29:05

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

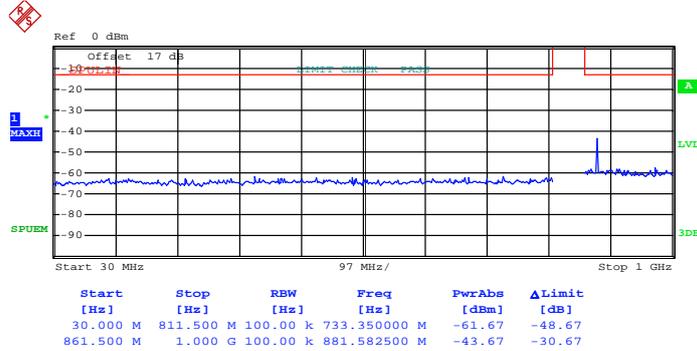


Date: 28.FEB.2013 16:27:32



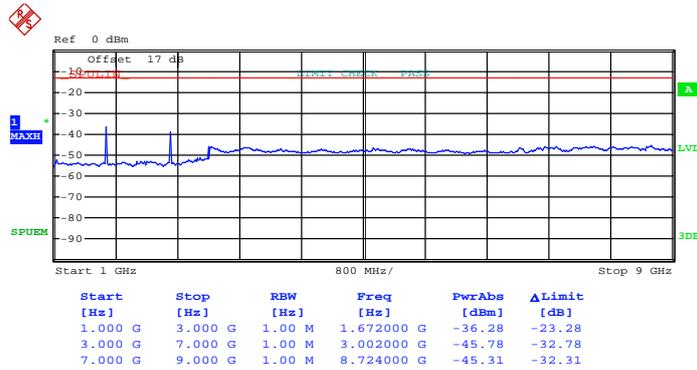
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:34:19

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

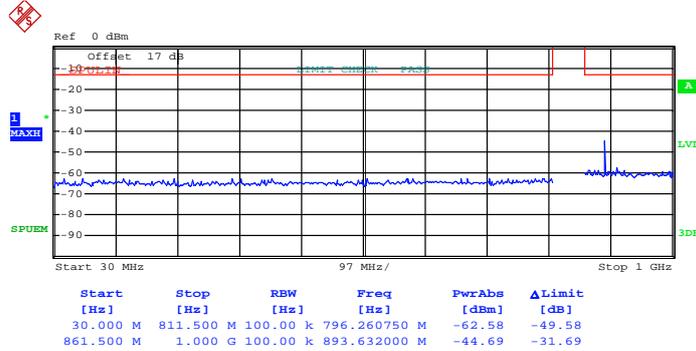


Date: 28.FEB.2013 16:35:48



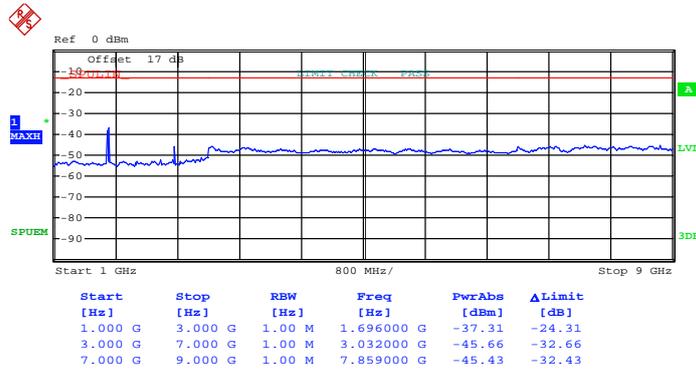
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
Frequency :	848.3	Channel :	20643

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:17:17

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

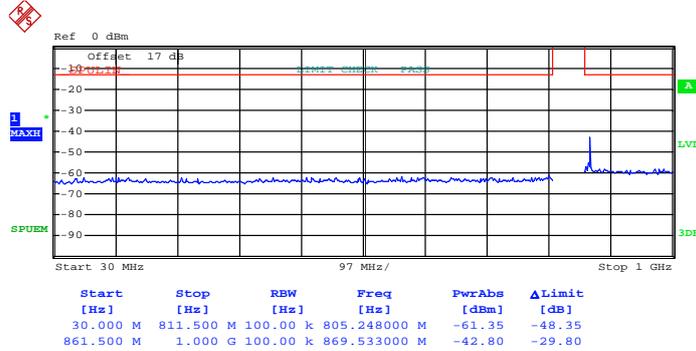


Date: 28.FEB.2013 16:21:31



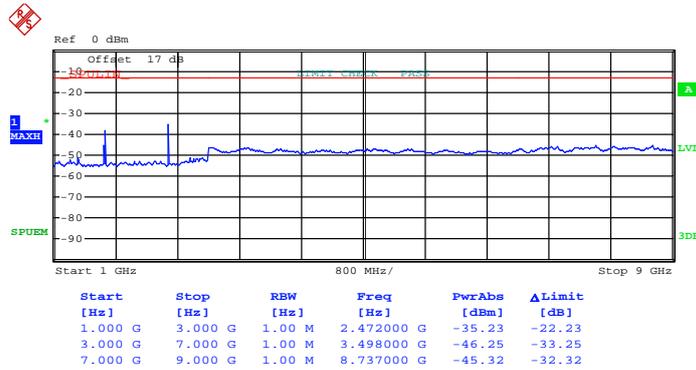
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
Frequency :	824.7	Channel :	20407

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:28:44

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

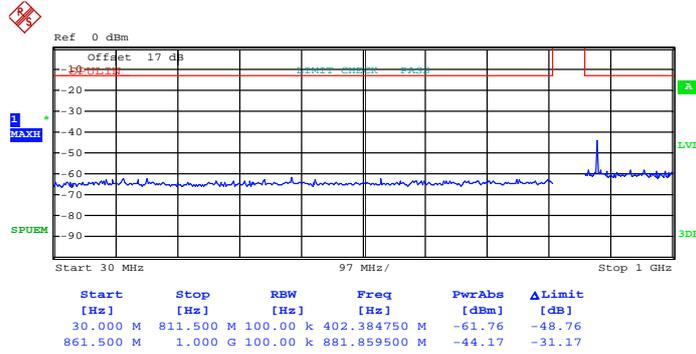


Date: 28.FEB.2013 16:27:56



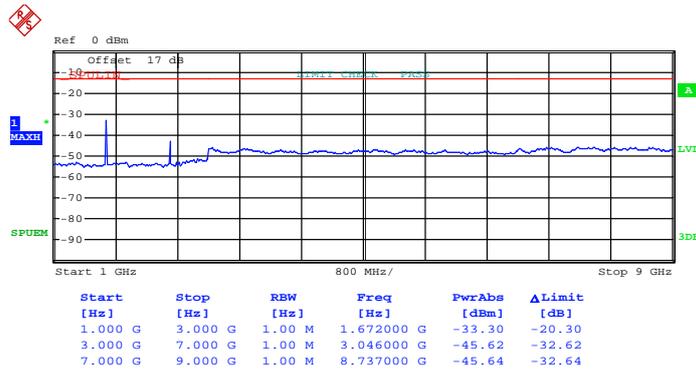
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:34:41

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

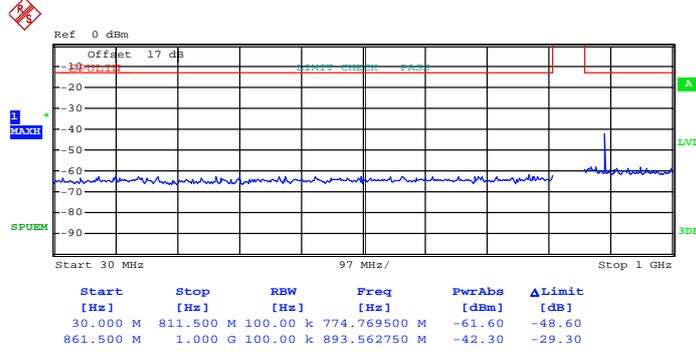


Date: 28.FEB.2013 16:35:20



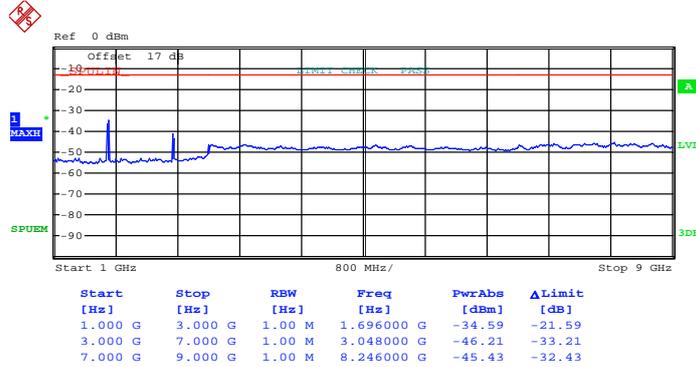
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
Frequency :	848.3	Channel :	20643

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:17:36

Conducted Emission Plot (1GHz ~ 9GHz) for
16-QAM (RB Size 1, RB Offset 0)

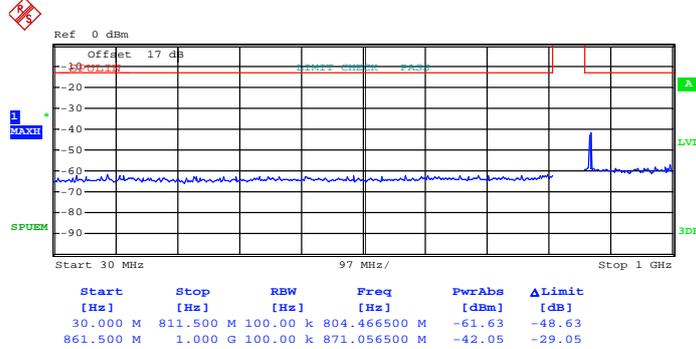


Date: 28.FEB.2013 16:21:01



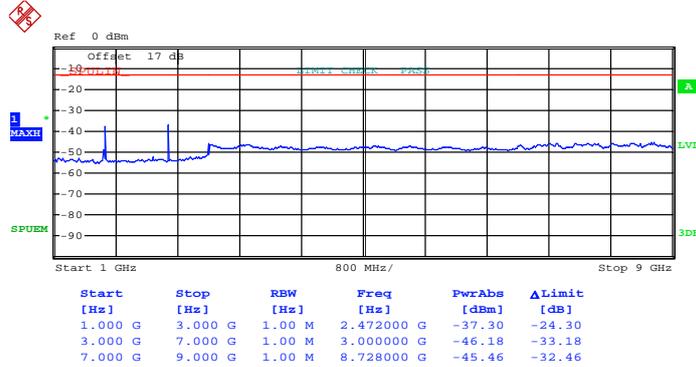
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
Frequency :	825.5	Channel :	20415

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:46:15

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

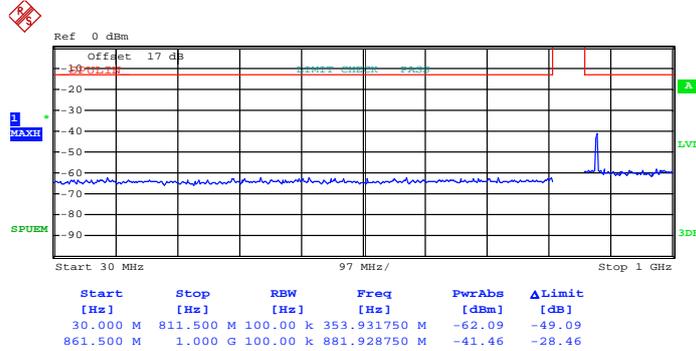


Date: 28.FEB.2013 16:44:41



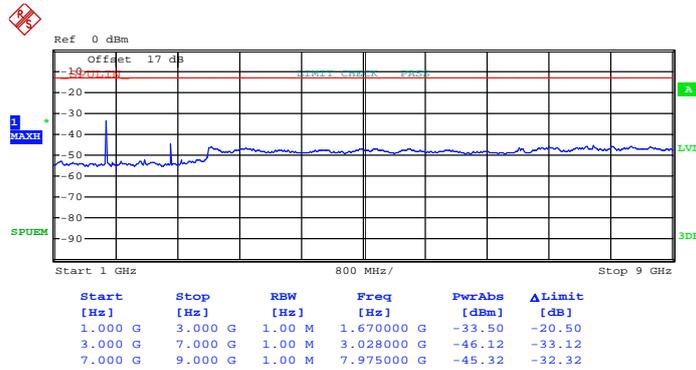
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:38:46

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

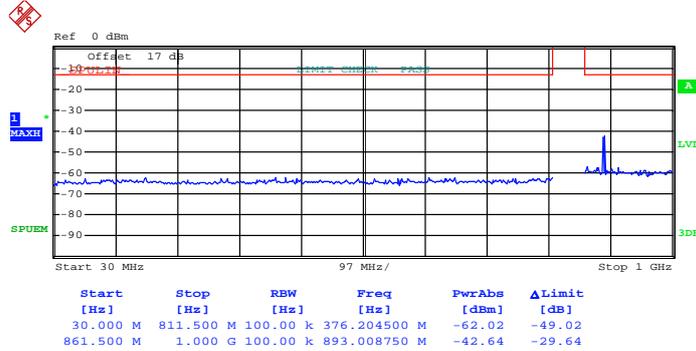


Date: 28.FEB.2013 16:37:28



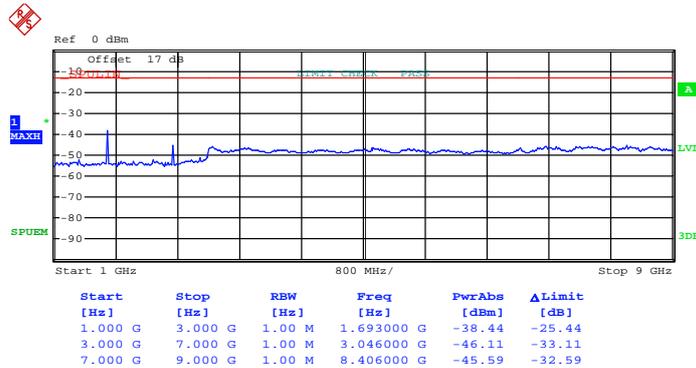
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
Frequency :	847.5	Channel :	20635

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:39:57

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

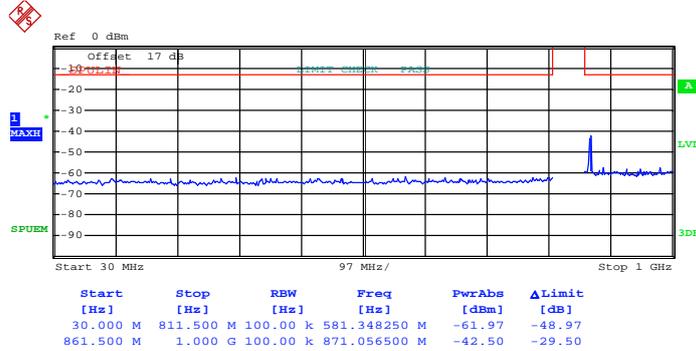


Date: 28.FEB.2013 16:41:29



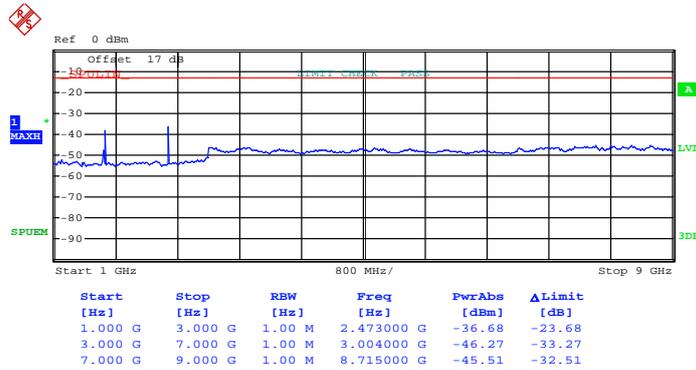
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
Frequency :	825.5	Channel :	20415

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:45:33

Conducted Emission Plot (1GHz ~ 9GHz) for
16-QAM (RB Size 1, RB Offset 0)

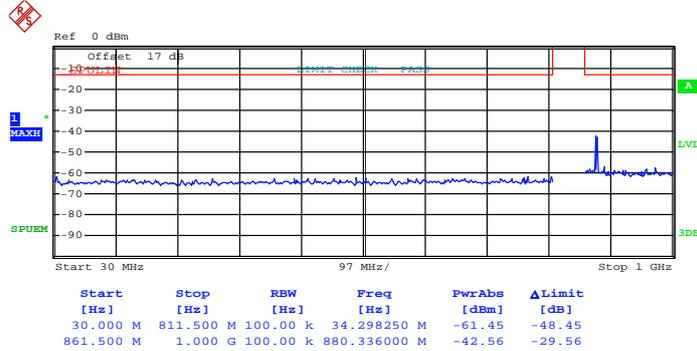


Date: 28.FEB.2013 16:45:08



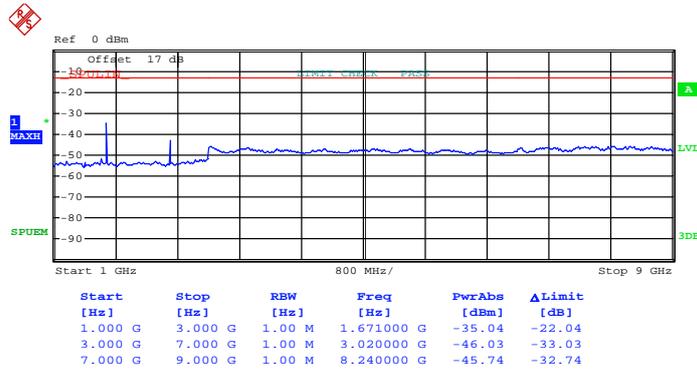
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:38:14

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

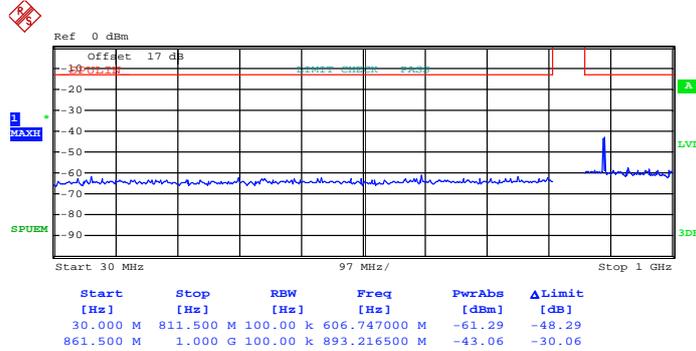


Date: 28.FEB.2013 16:37:50



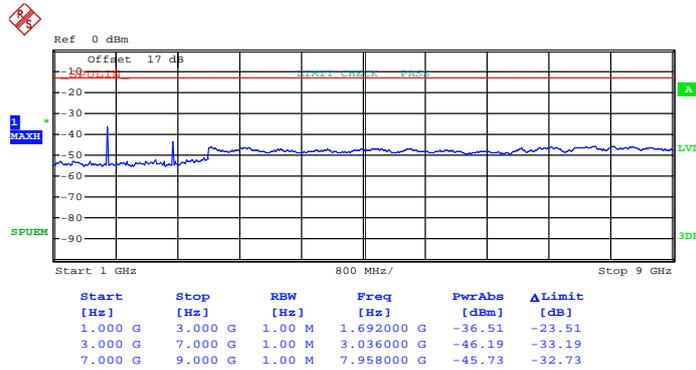
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
Frequency :	847.5	Channel :	20635

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:40:35

Conducted Emission Plot (1GHz ~ 9GHz) for
16-QAM (RB Size 1, RB Offset 0)

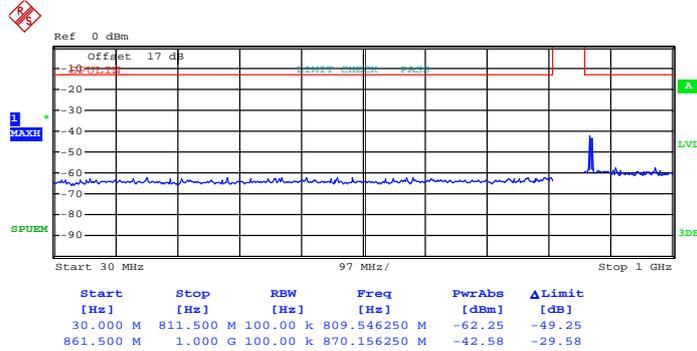


Date: 28.FEB.2013 16:41:06



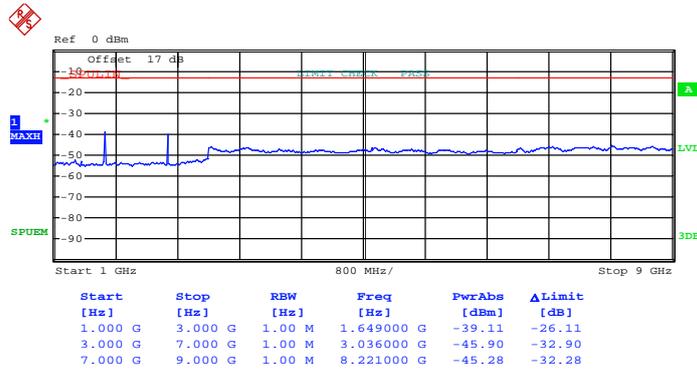
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
Frequency :	826.5	Channel :	20425

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:48:36

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

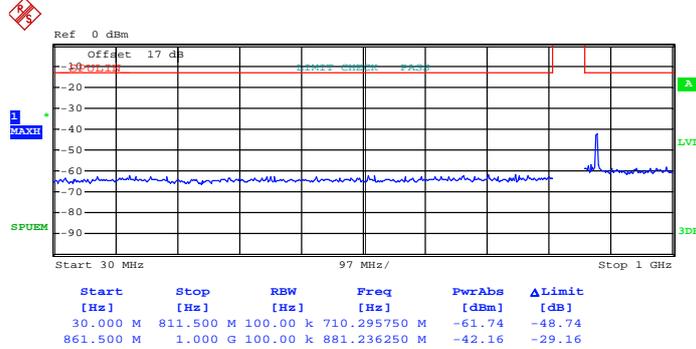


Date: 28.FEB.2013 16:49:59



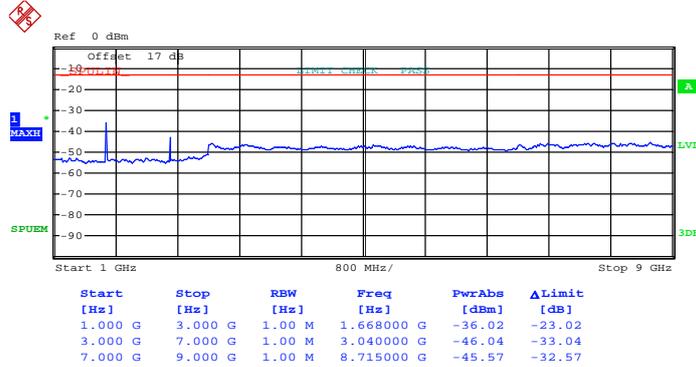
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:56:42

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

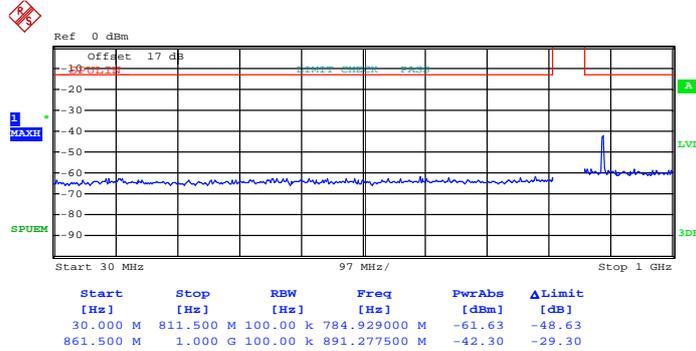


Date: 28.FEB.2013 16:58:20



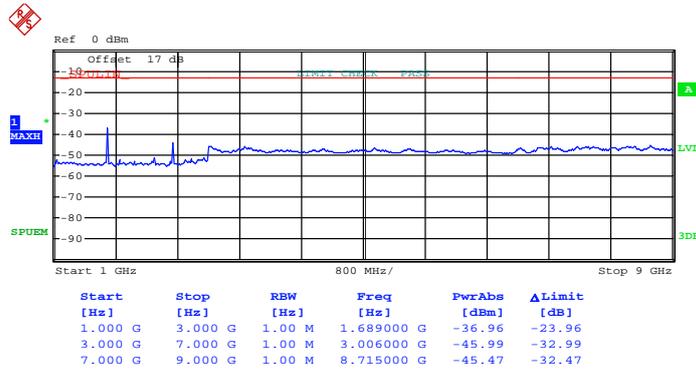
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
Frequency :	846.5	Channel :	20625

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:52:56

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

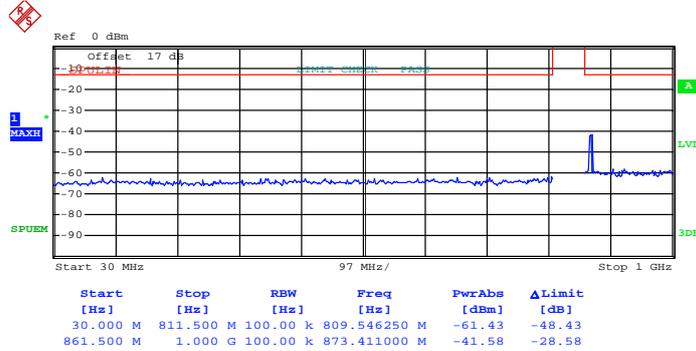


Date: 28.FEB.2013 16:51:35



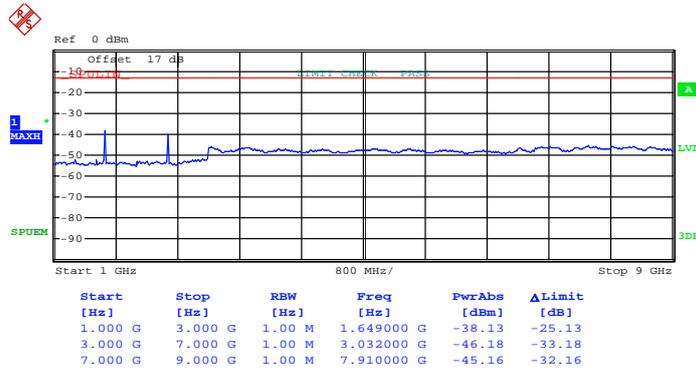
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
Frequency :	826.5	Channel :	20425

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:49:04

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:49:36



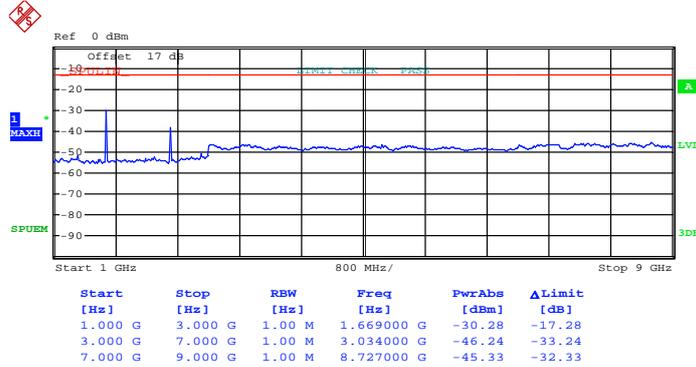
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:57:13

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

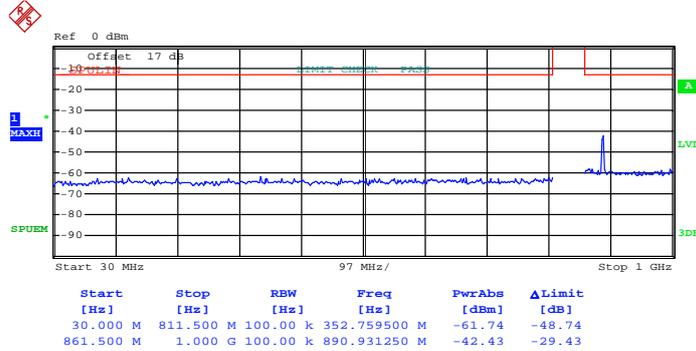


Date: 28.FEB.2013 16:57:52



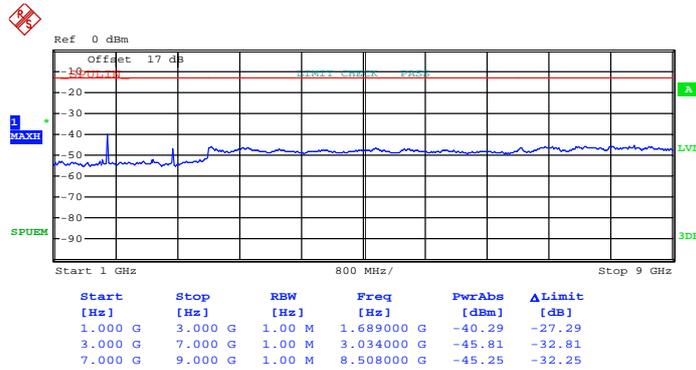
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
Frequency :	846.5	Channel :	20625

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 16:52:29

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

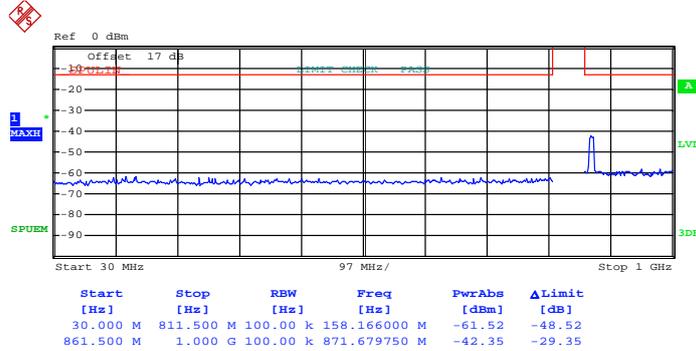


Date: 28.FEB.2013 16:52:00



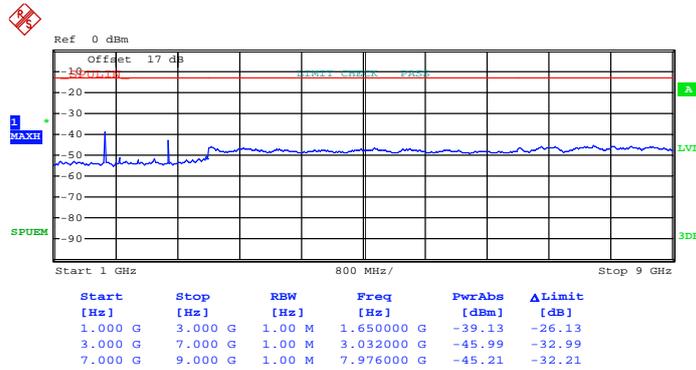
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
Frequency :	829	Channel :	20450

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 17:10:42

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

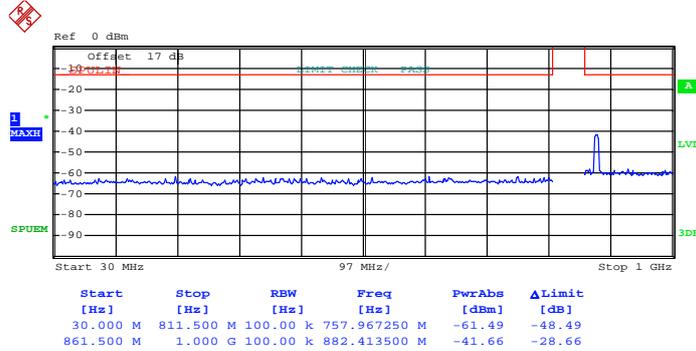


Date: 28.FEB.2013 17:09:12



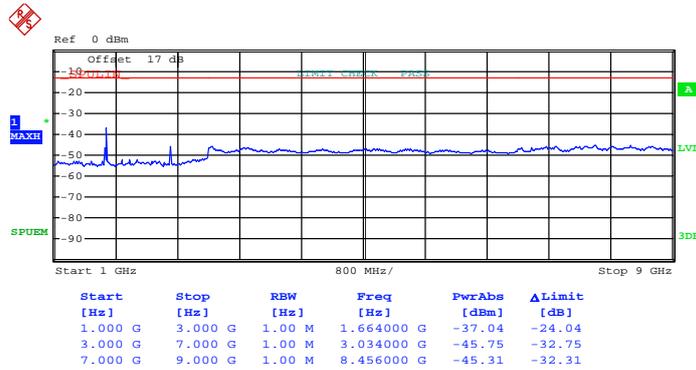
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 17:01:16

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

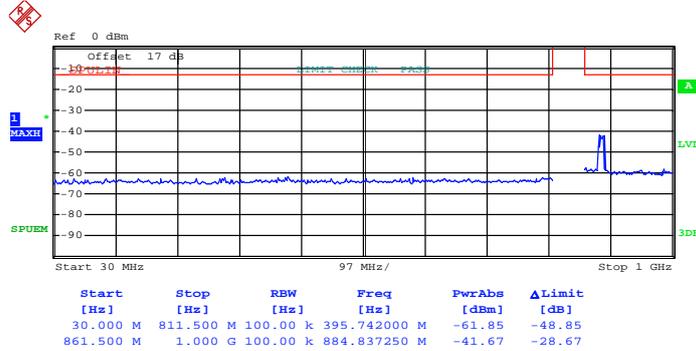


Date: 28.FEB.2013 16:59:49



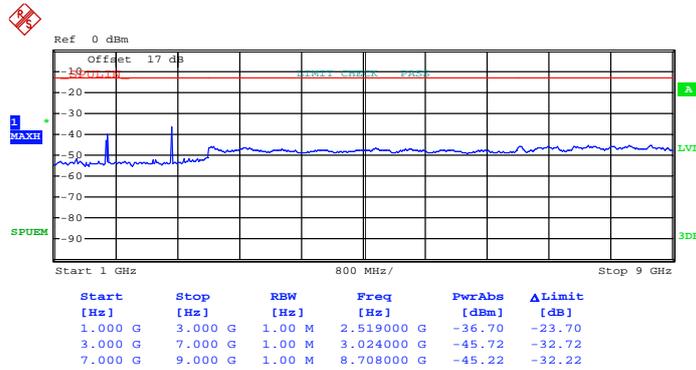
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
Frequency :	844	Channel :	20600

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 17:04:38

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

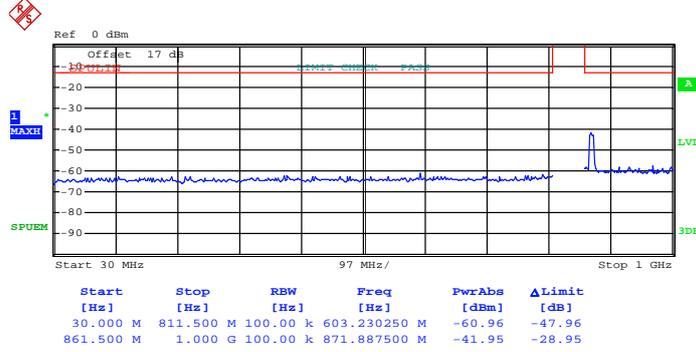


Date: 28.FEB.2013 17:06:20



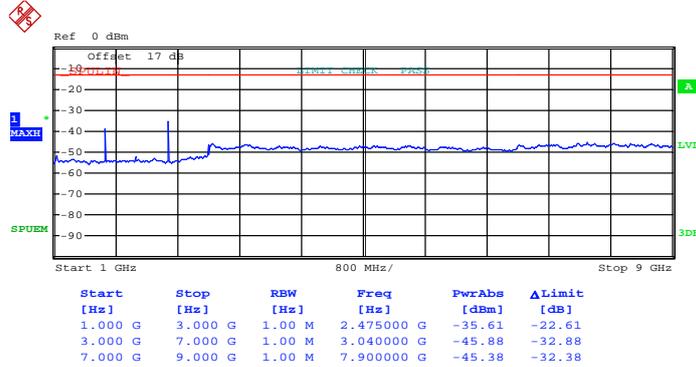
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
Frequency :	829	Channel :	20450

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 17:10:16

Conducted Emission Plot (1GHz ~ 9GHz) for
16-QAM (RB Size 1, RB Offset 0)

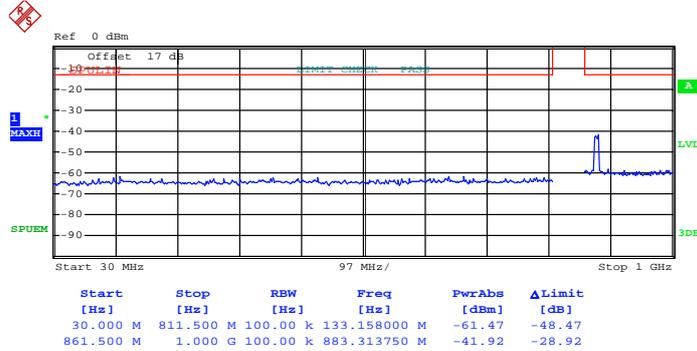


Date: 28.FEB.2013 17:09:38



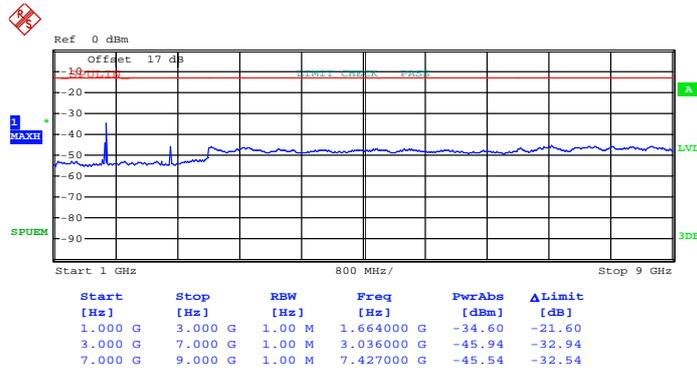
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
Frequency :	836.5	Channel :	20525

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 17:00:47

Conducted Emission Plot (1GHz ~ 9GHz) for
16-QAM (RB Size 1, RB Offset 0)

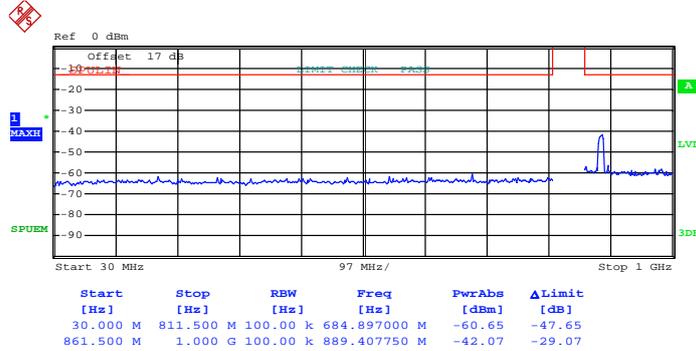


Date: 28.FEB.2013 17:00:17



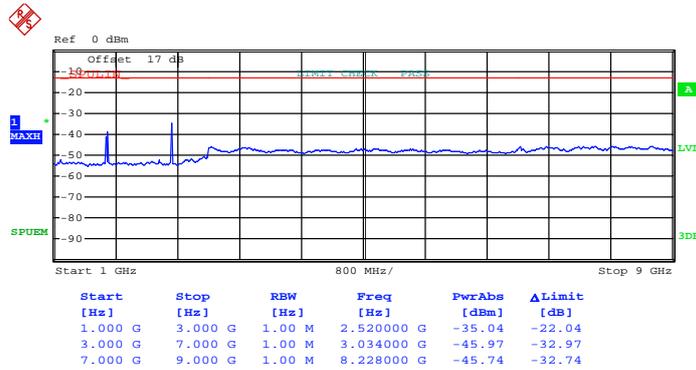
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
Frequency :	844	Channel :	20600

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 0)



Date: 28.FEB.2013 17:05:10

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

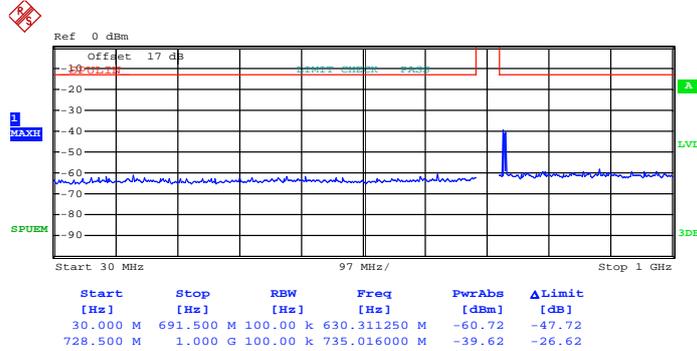


Date: 28.FEB.2013 17:05:44



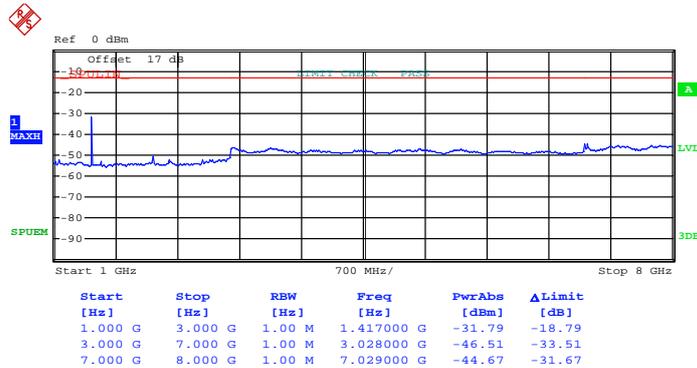
Band :	LTE Band 17	BW / Mod. :	5MHz / QPSK
Frequency :	706.5	Channel :	23755

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 24)



Date: 1.MAR.2013 11:23:19

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 24)

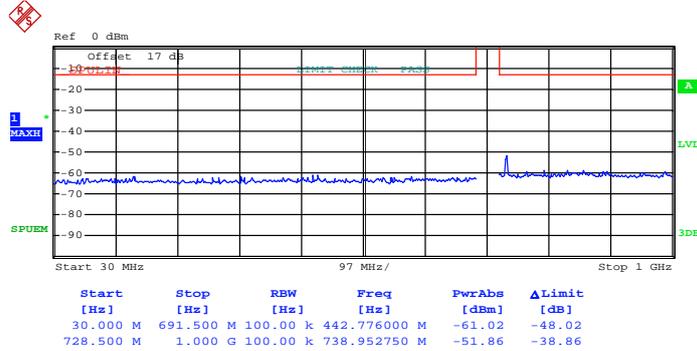


Date: 1.MAR.2013 11:24:03



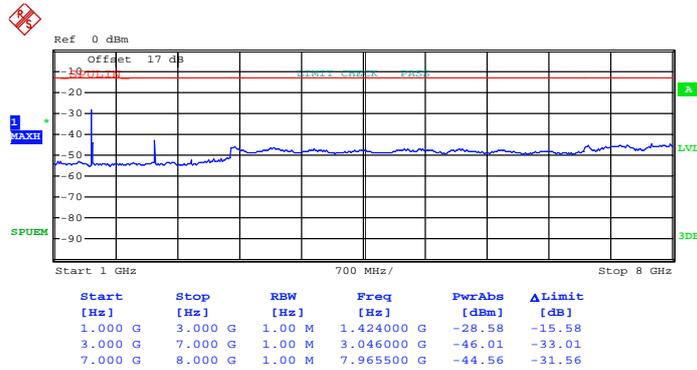
Band :	LTE Band 17	BW / Mod. :	5MHz / QPSK
Frequency :	710	Channel :	23790

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 24)



Date: 28.FEB.2013 18:24:59

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 24)

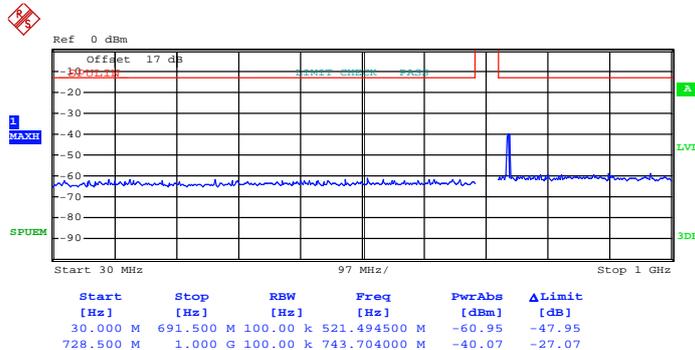


Date: 28.FEB.2013 18:26:34



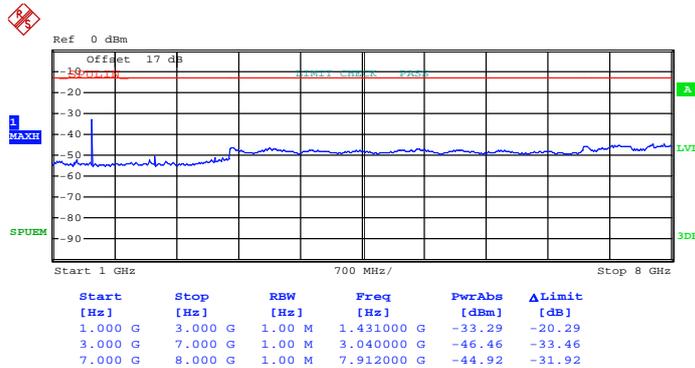
Band :	LTE Band 17	BW / Mod. :	5MHz / QPSK
Frequency :	713.5	Channel :	23825

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 24)



Date: 1.MAR.2013 11:20:05

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 24)



Date: 1.MAR.2013 11:19:29



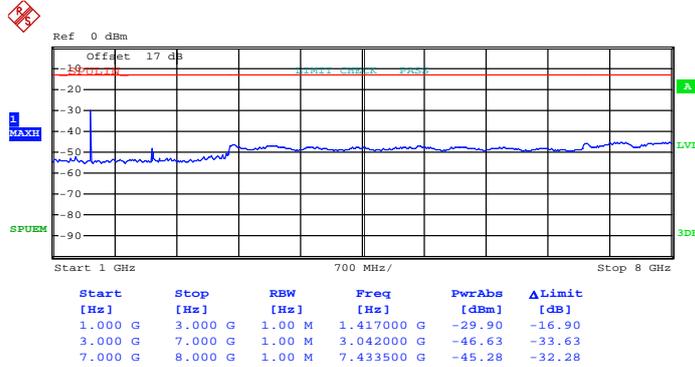
Band :	LTE Band 17	BW / Mod. :	5MHz / 16QAM
Frequency :	706.5	Channel :	23755

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 24)



Date: 1.MAR.2013 11:22:53

Conducted Emission Plot (1GHz ~ 8GHz) for
16-QAM (RB Size 1, RB Offset 24)

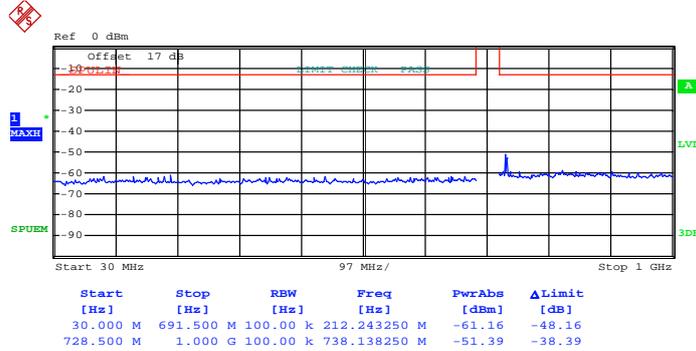


Date: 1.MAR.2013 11:24:38



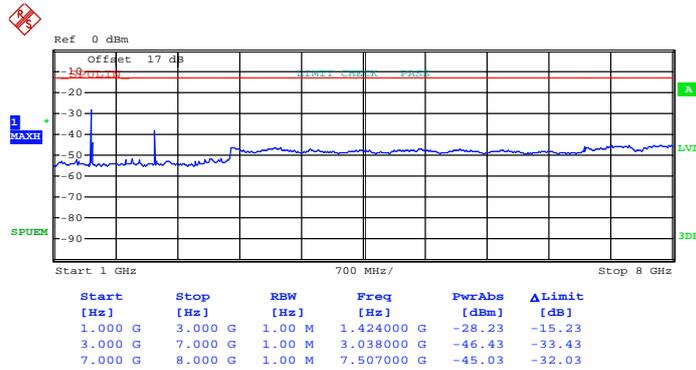
Band :	LTE Band 17	BW / Mod. :	5MHz / 16QAM
Frequency :	710	Channel :	23790

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 24)



Date: 28.FEB.2013 18:25:32

Conducted Emission Plot (1GHz ~ 8GHz) for
16-QAM (RB Size 1, RB Offset 24)

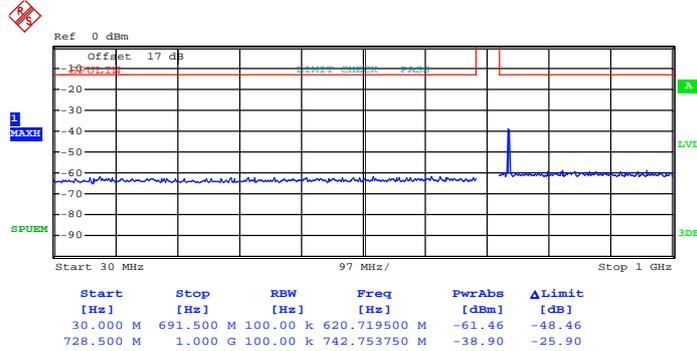


Date: 28.FEB.2013 18:26:06



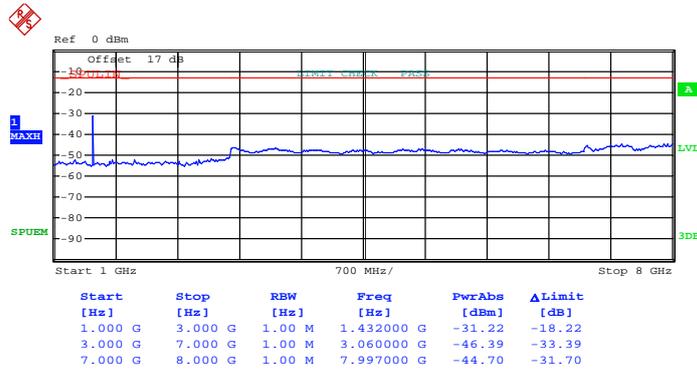
Band :	LTE Band 17	BW / Mod. :	5MHz / 16QAM
Frequency :	713.5	Channel :	23825

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 24)



Date: 1.MAR.2013 11:20:39

Conducted Emission Plot (1GHz ~ 8GHz) for
16-QAM (RB Size 1, RB Offset 24)



Date: 1.MAR.2013 11:18:46



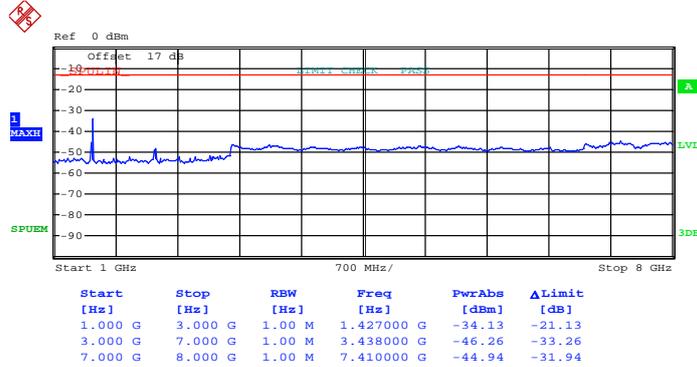
Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
Frequency :	709	Channel :	23780

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 49)



Date: 1.MAR.2013 11:15:09

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 49)

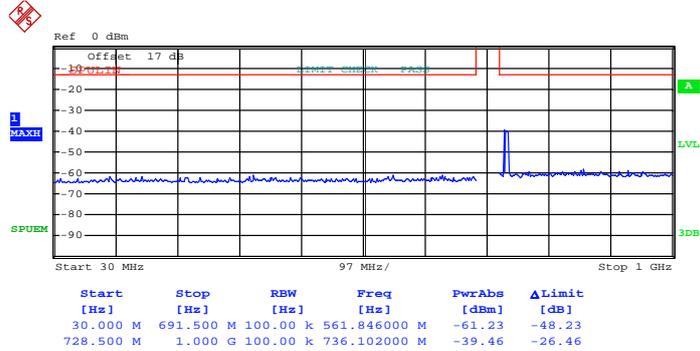


Date: 1.MAR.2013 11:15:41



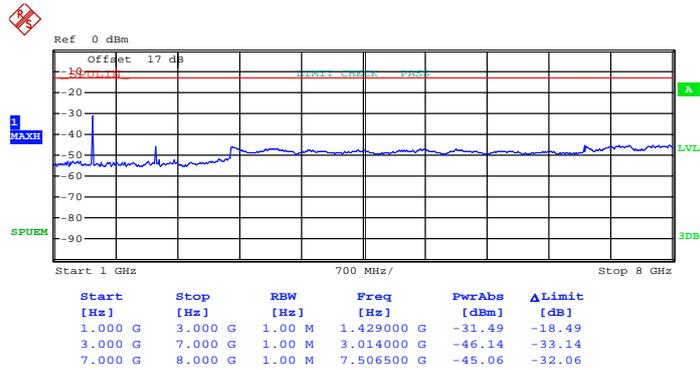
Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
Frequency :	710	Channel :	23790

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 49)



Date: 1.MAR.2013 11:08:49

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 49)

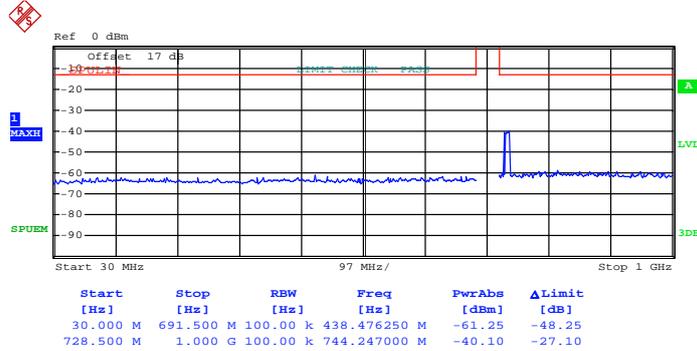


Date: 1.MAR.2013 11:09:44



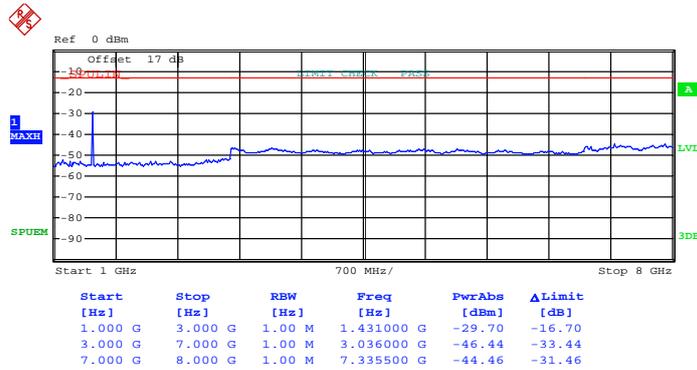
Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
Frequency :	711	Channel :	23800

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 49)



Date: 1.MAR.2013 11:13:30

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 49)

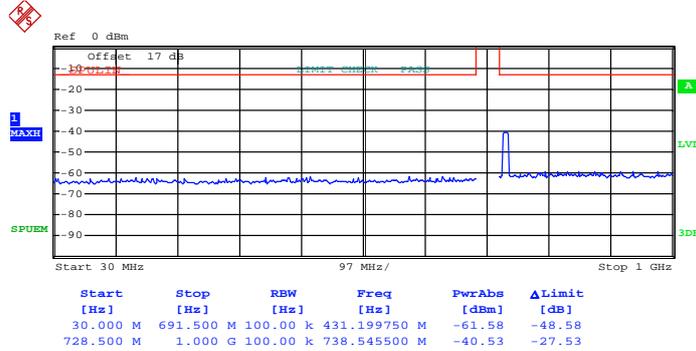


Date: 1.MAR.2013 11:12:33



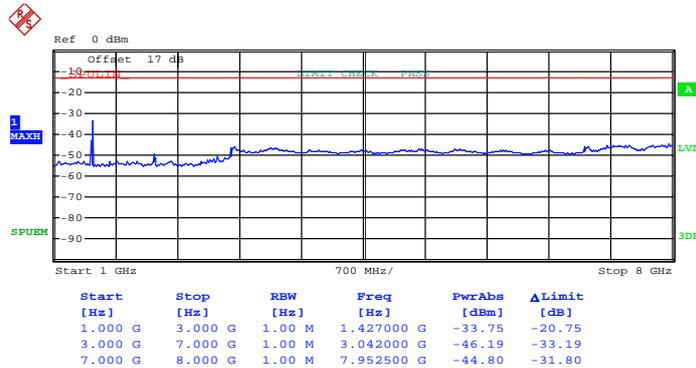
Band :	LTE Band 17	BW / Mod. :	10MHz / 16QAM
Frequency :	709	Channel :	23780

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 49)



Date: 1.MAR.2013 11:14:43

Conducted Emission Plot (1GHz ~ 8GHz) for
16-QAM (RB Size 1, RB Offset 49)

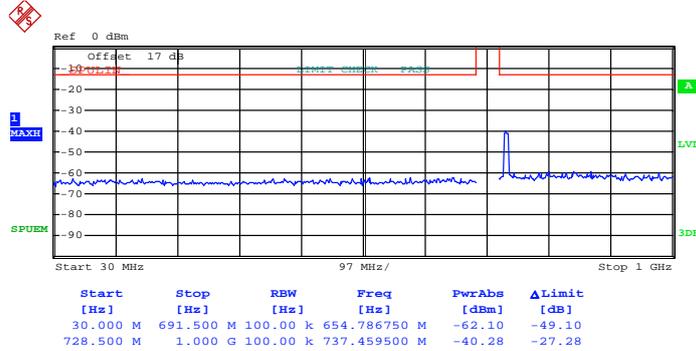


Date: 1.MAR.2013 11:16:15



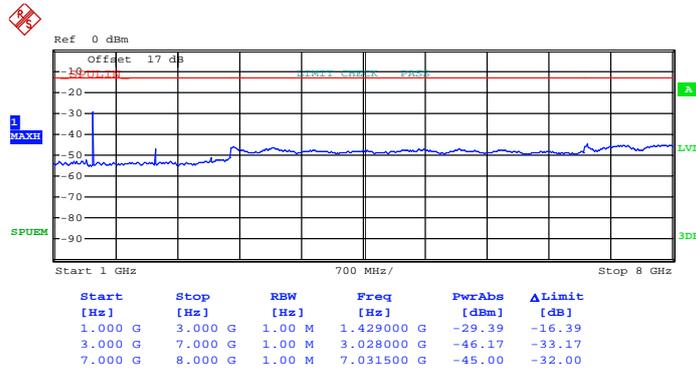
Band :	LTE Band 17	BW / Mod. :	10MHz / 16QAM
Frequency :	710	Channel :	23790

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 49)



Date: 1.MAR.2013 11:08:11

Conducted Emission Plot (1GHz ~ 8GHz) for
16-QAM (RB Size 1, RB Offset 49)

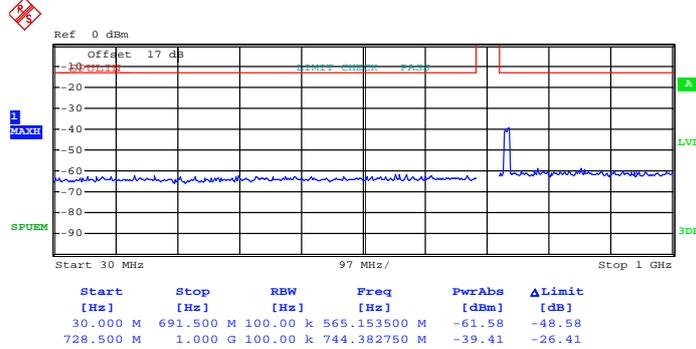


Date: 1.MAR.2013 11:10:26



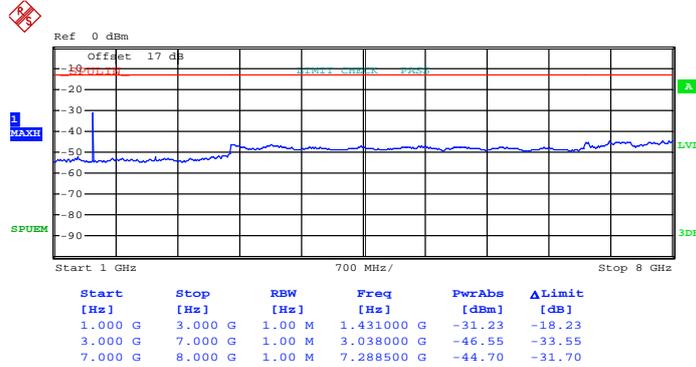
Band :	LTE Band 17	BW / Mod. :	10MHz / 16QAM
Frequency :	711	Channel :	23800

Conducted Emission Plot (30MHz ~ 1GHz) for
16-QAM (RB Size 1, RB Offset 49)



Date: 1.MAR.2013 11:13:59

Conducted Emission Plot (1GHz ~ 8GHz) for
16-QAM (RB Size 1, RB Offset 49)



Date: 1.MAR.2013 11:11:54

3.6 Field Strength of Spurious Radiation Measurement

3.6.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.6.2 Measuring Instruments

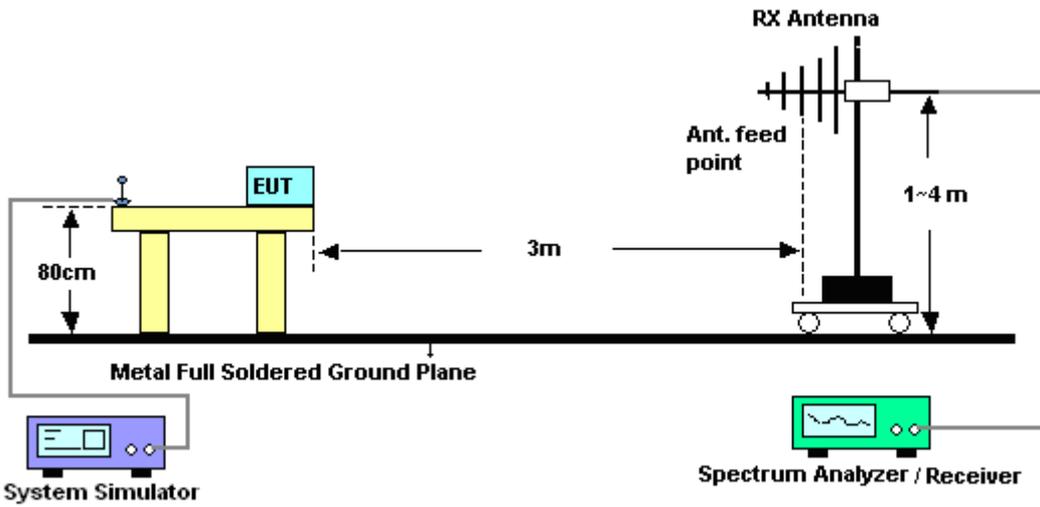
See list of measuring instruments of this test report.

3.6.3 Test Procedures

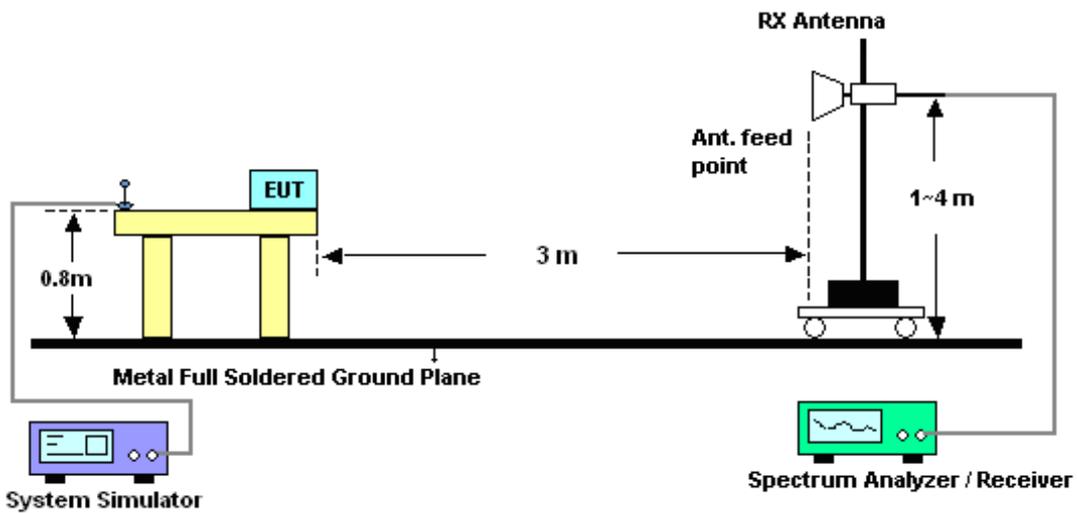
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution Gain.

3.6.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



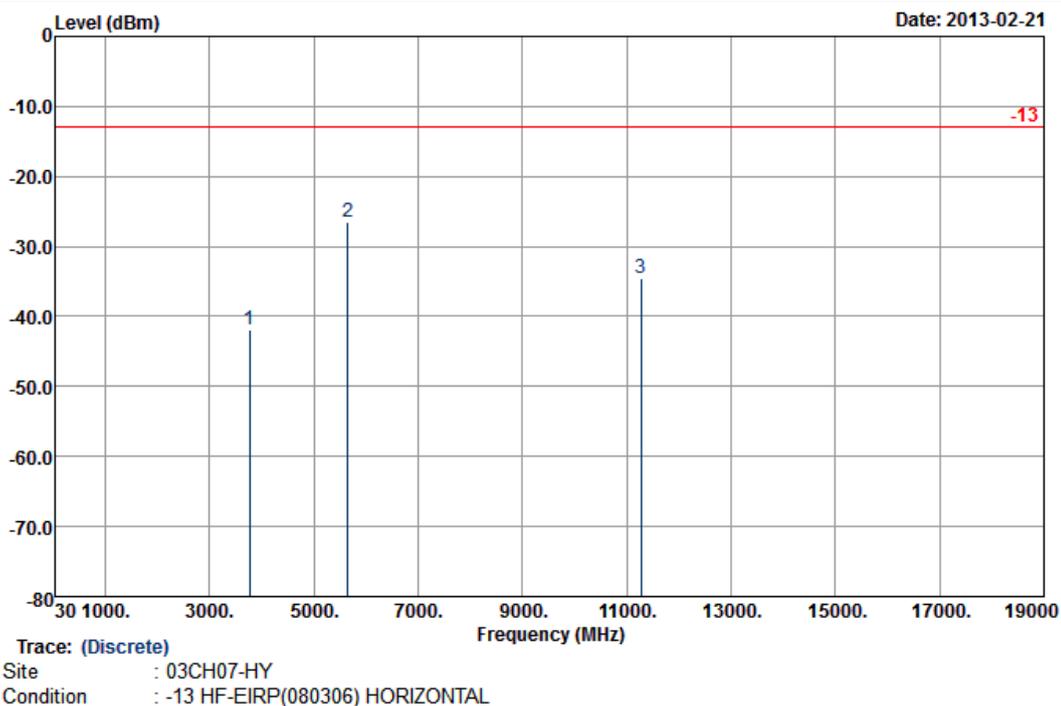
3.6.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.6.6 Test Result of Field Strength of Spurious Radiated

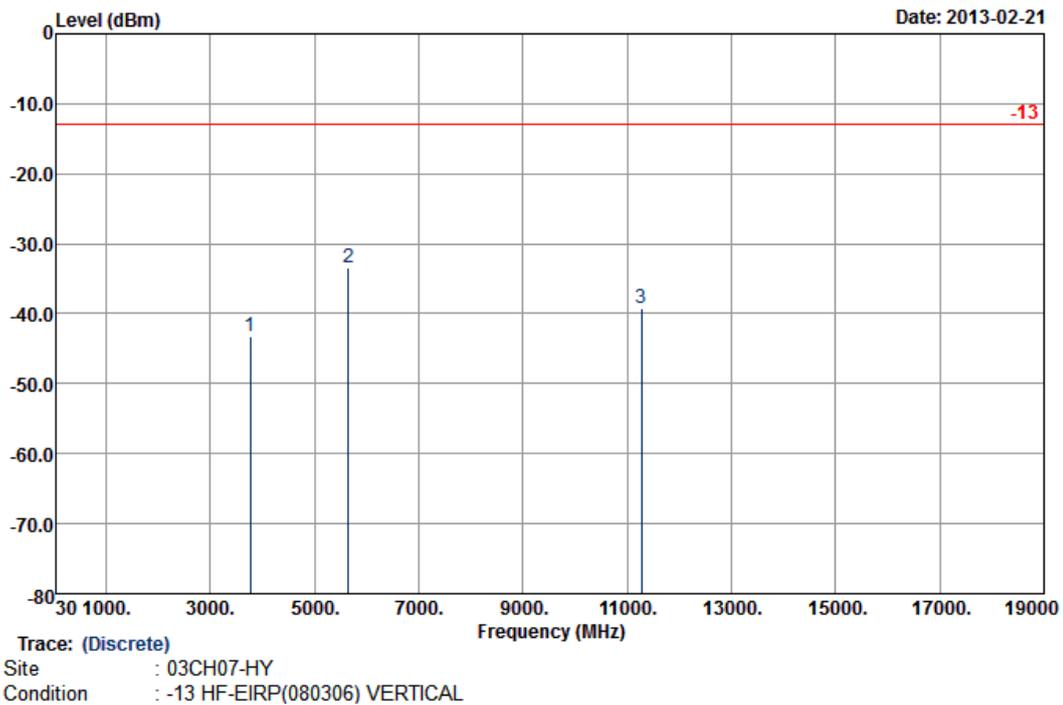
Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-41.83	-13	-28.83	-57.3	-48.13	2.51	8.81	H	Pass
5640	-26.55	-13	-13.55	-47.34	-34.26	2.99	10.70	H	Pass
11276	-34.65	-13	-21.65	-64.08	-43.69	4.27	13.31	H	Pass



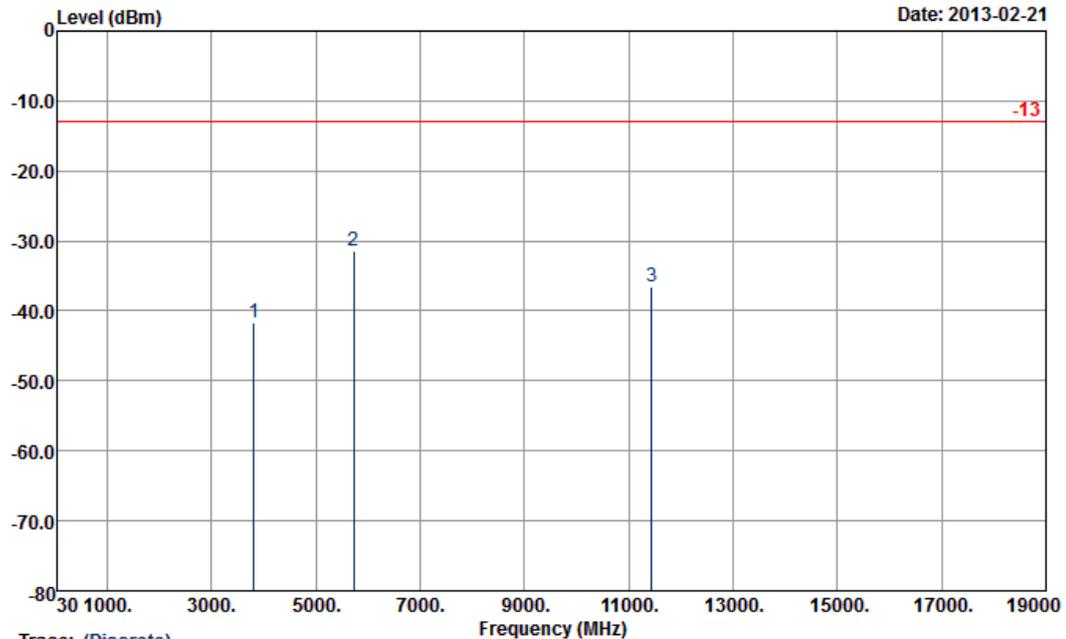
Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-43.21	-13	-30.21	-59.69	-49.51	2.51	8.81	V	Pass
5640	-33.37	-13	-20.37	-53.81	-41.08	2.99	10.70	V	Pass
11276	-39.30	-13	-26.30	-68.12	-48.34	4.27	13.31	V	Pass



Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

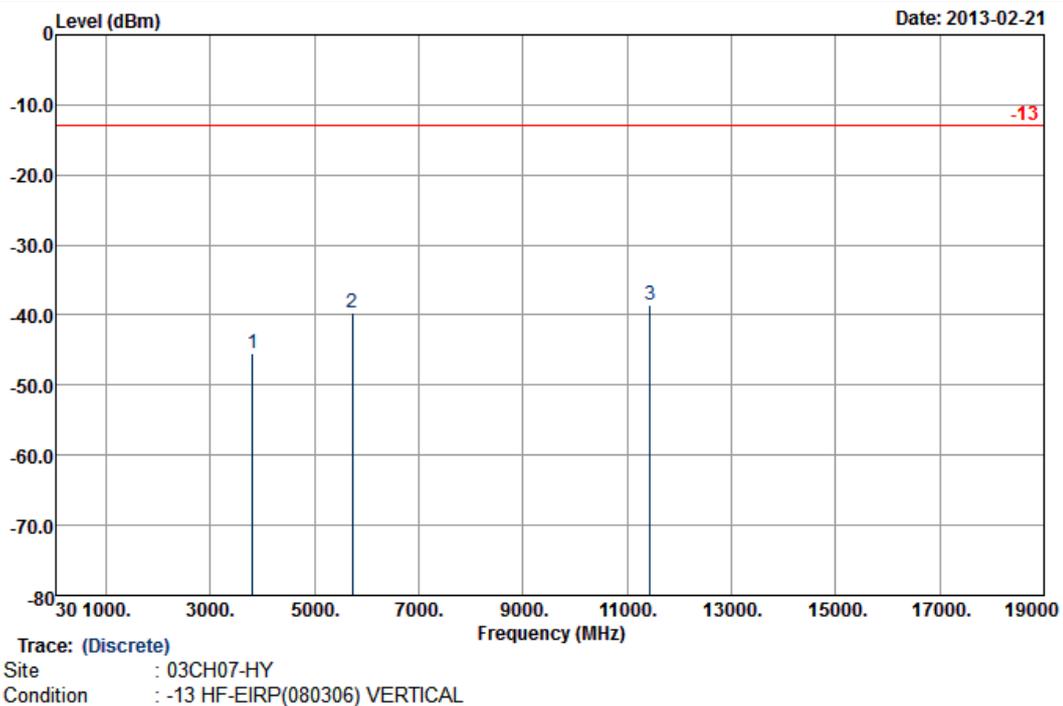


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3812	-41.64	-13	-28.64	-57.19	-47.94	2.51	8.81	H	Pass
5724	-31.47	-13	-18.47	-52.54	-39.18	2.99	10.70	H	Pass
11440	-36.46	-13	-23.46	-66.15	-45.5	4.27	13.31	H	Pass



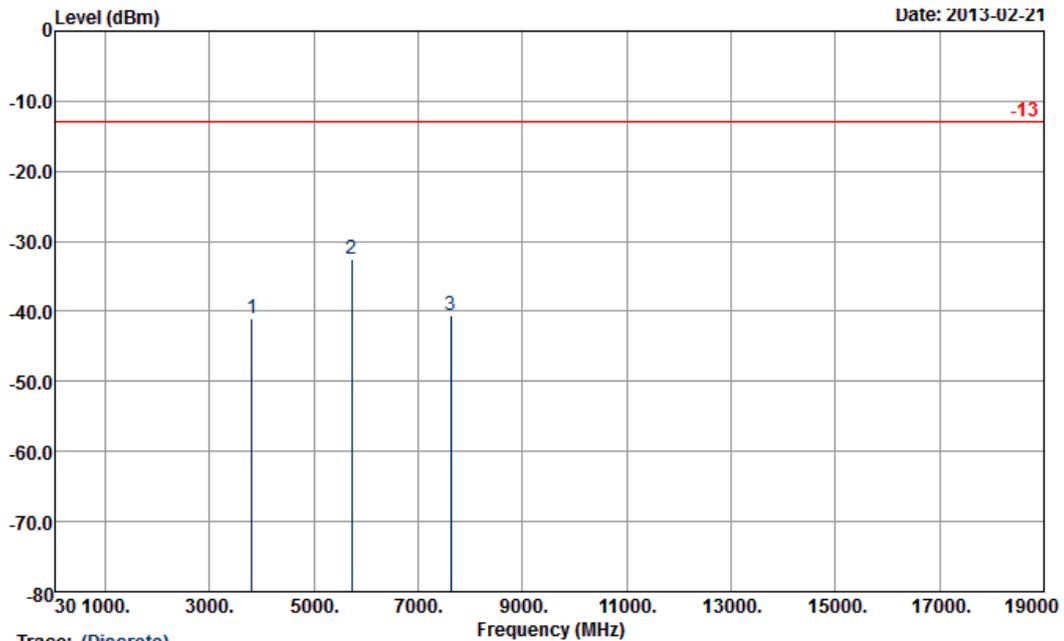
Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3812	-45.39	-13	-32.39	-61.82	-51.69	2.51	8.81	V	Pass
5724	-39.73	-13	-26.73	-60.61	-47.44	2.99	10.70	V	Pass
11440	-38.55	-13	-25.55	-67.42	-47.59	4.27	13.31	V	Pass



Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

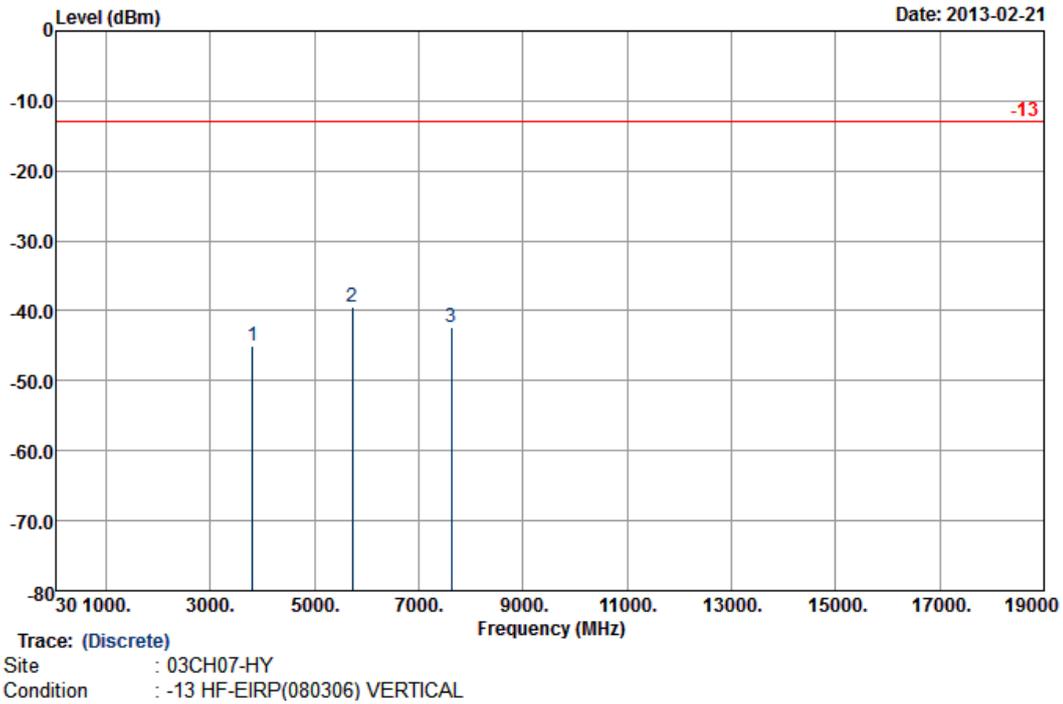


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3808	-40.90	-13	-27.90	-56.46	-47.2	2.51	8.81	H	Pass
5716	-32.57	-13	-19.57	-53.58	-40.28	2.99	10.70	H	Pass
7616	-40.53	-13	-27.53	-67.13	-49.06	3.59	12.12	H	Pass



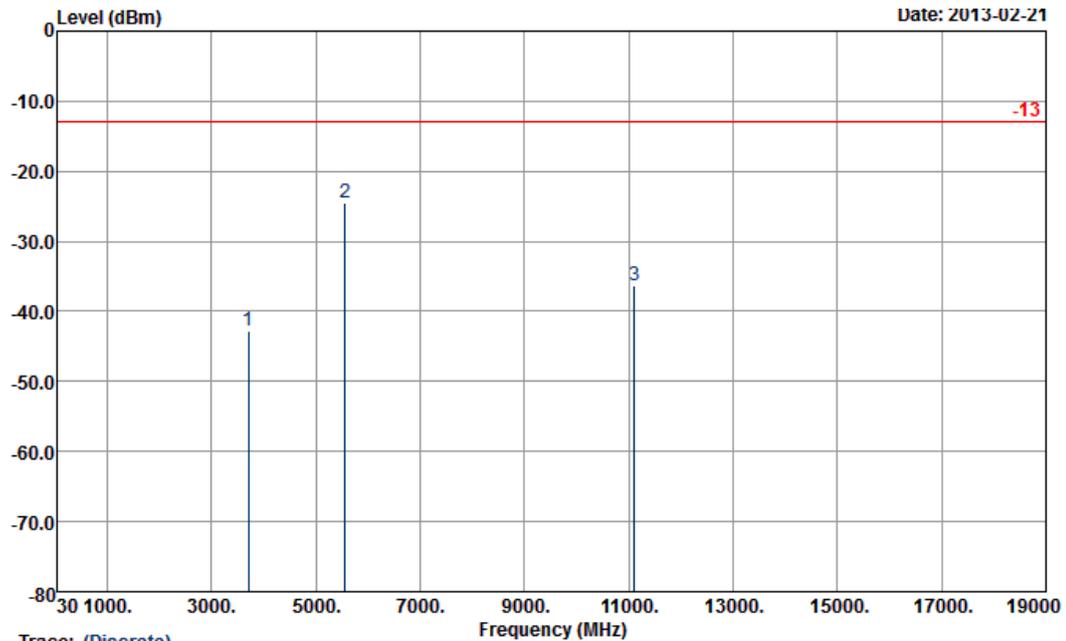
Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3808	-45.09	-13	-32.09	-61.54	-51.39	2.51	8.81	V	Pass
5716	-39.54	-13	-26.54	-60.37	-47.25	2.99	10.70	V	Pass
7616	-42.35	-13	-29.35	-68.78	-50.88	3.59	12.12	V	Pass



Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

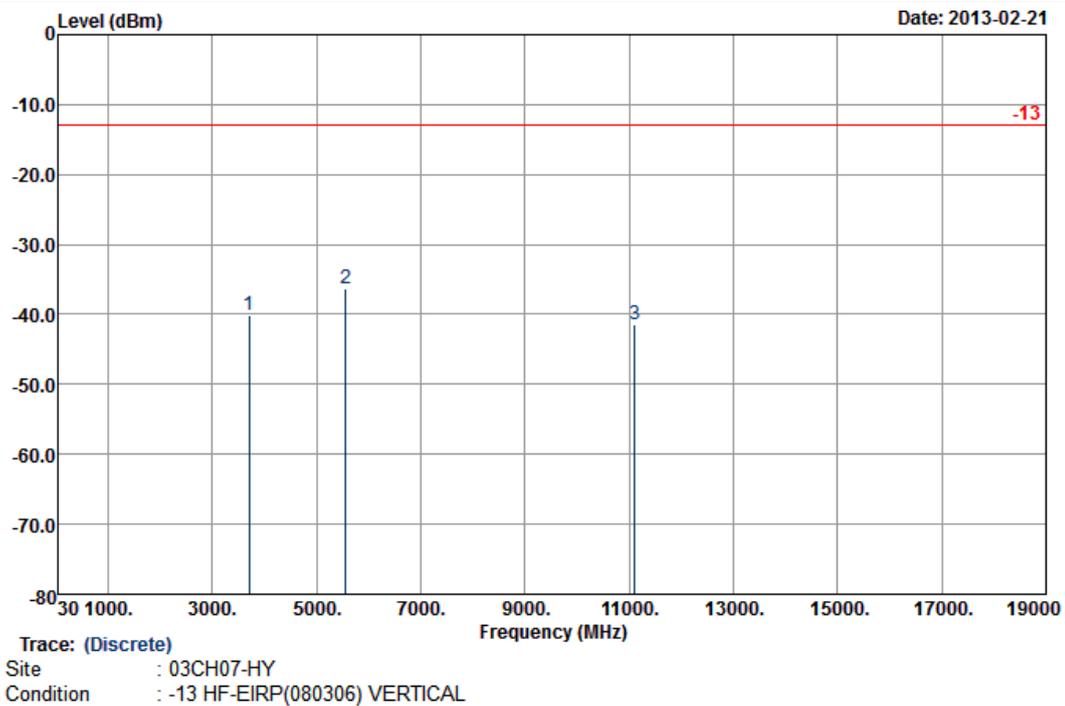


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-42.73	-13	-29.73	-57.86	-49.03	2.51	8.81	H	Pass
5552	-24.44	-13	-11.44	-44.84	-32.15	2.99	10.70	H	Pass
11100	-36.23	-13	-23.23	-65.33	-45.27	4.27	13.31	H	Pass



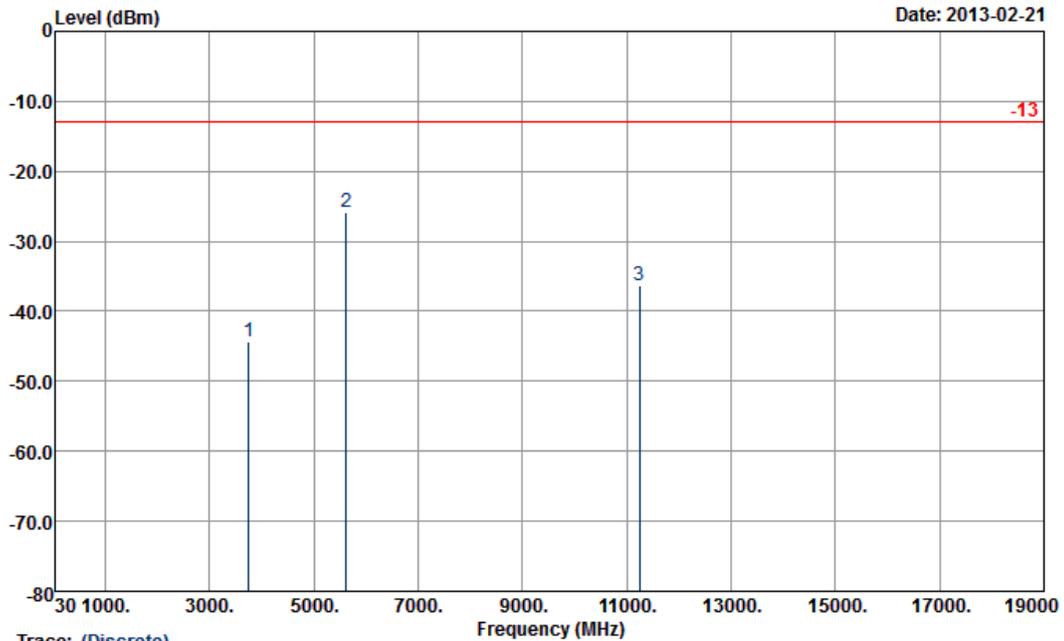
Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-40.22	-13	-27.22	-56.36	-46.52	2.51	8.81	V	Pass
5552	-36.27	-13	-23.27	-56.57	-43.98	2.99	10.70	V	Pass
11100	-41.55	-13	-28.55	-69.96	-50.59	4.27	13.31	V	Pass



Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	15MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

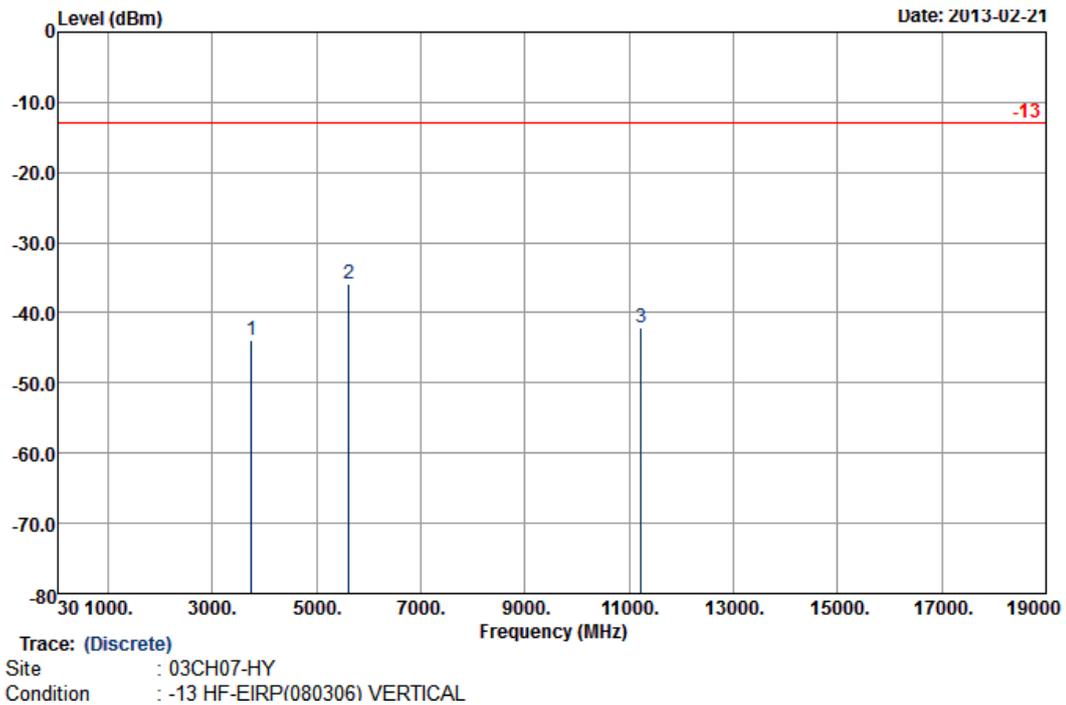


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3744	-44.26	-13	-31.26	-59.58	-50.56	2.51	8.81	H	Pass
5620	-25.88	-13	-12.88	-46.56	-33.59	2.99	10.70	H	Pass
11240	-36.33	-13	-23.33	-65.71	-45.37	4.27	13.31	H	Pass



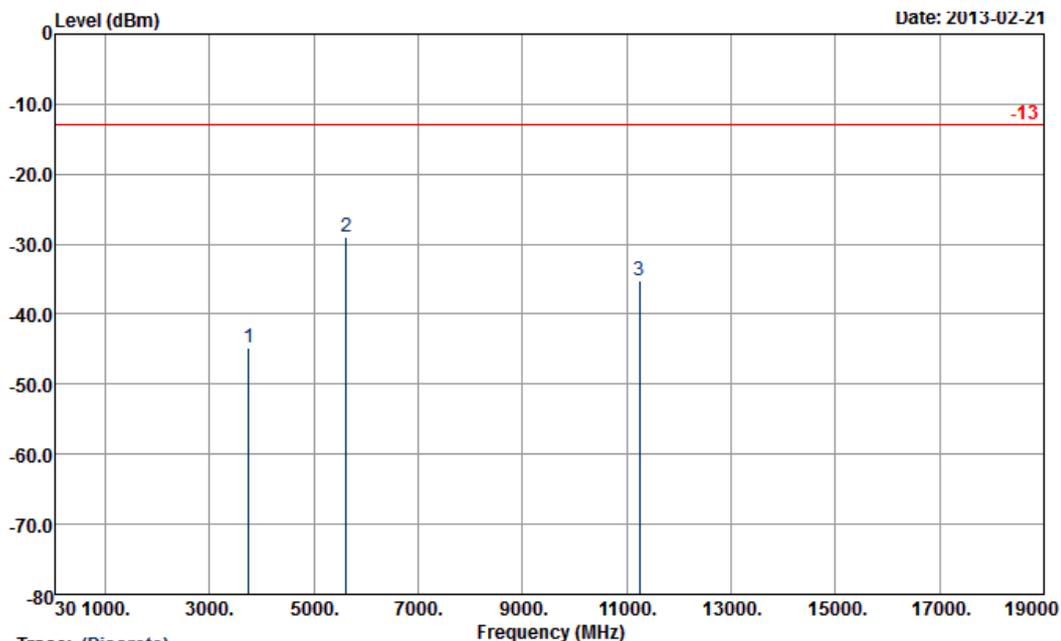
Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	15MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3744	-43.83	-13	-30.83	-60.11	-50.13	2.51	8.81	V	Pass
5620	-35.91	-13	-22.91	-56.41	-43.62	2.99	10.70	V	Pass
11232	-42.04	-13	-29.04	-70.62	-51.08	4.27	13.31	V	Pass



Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	20MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

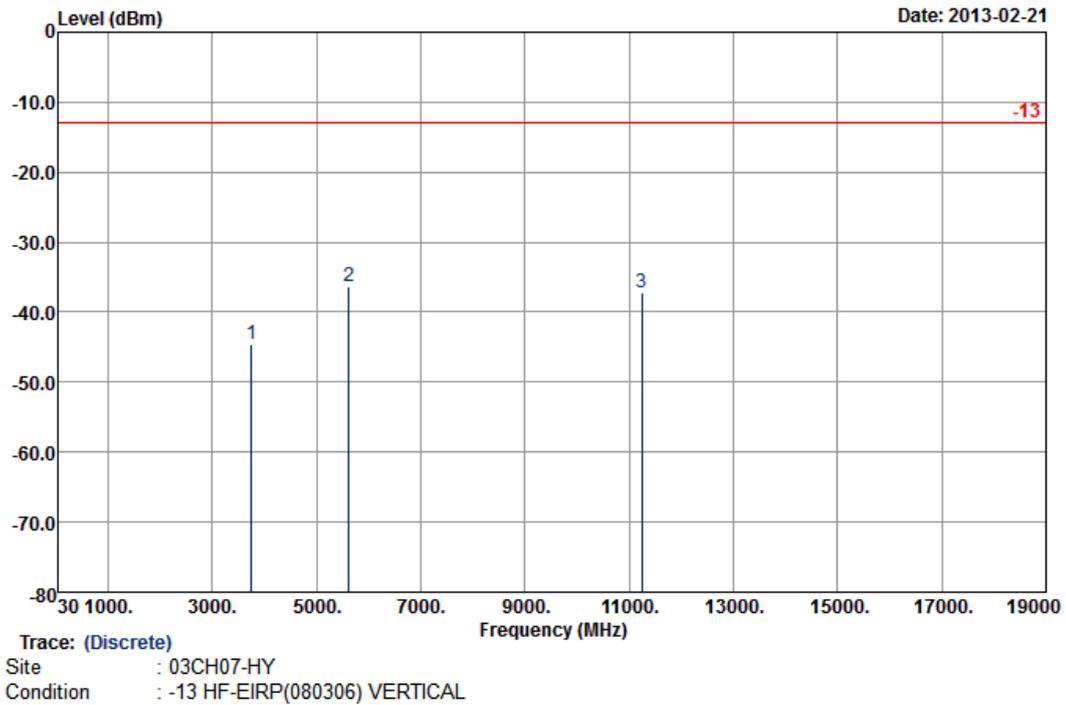


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-FIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3740	-44.90	-13	-31.90	-60.2	-51.2	2.51	8.81	H	Pass
5612	-29.01	-13	-16.01	-49.67	-36.72	2.99	10.70	H	Pass
11236	-35.15	-13	-22.15	-64.51	-44.19	4.27	13.31	H	Pass



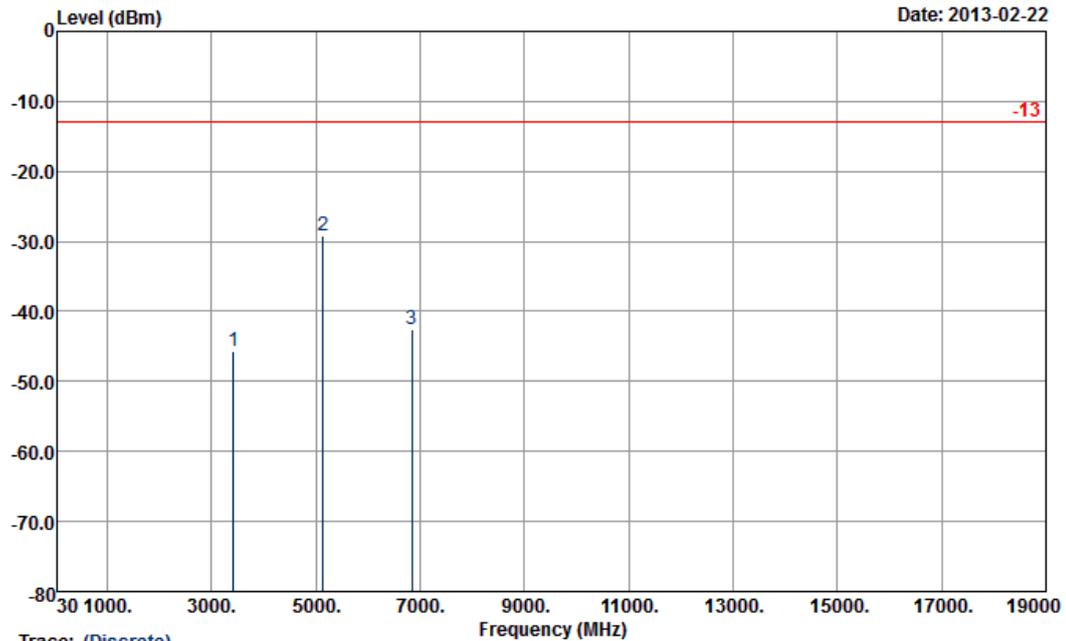
Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	20MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3740	-44.48	-13	-31.48	-60.75	-50.78	2.51	8.81	V	Pass
5612	-36.30	-13	-23.30	-56.75	-44.01	2.99	10.70	V	Pass
11236	-37.23	-13	-24.23	-65.89	-46.27	4.27	13.31	V	Pass



Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

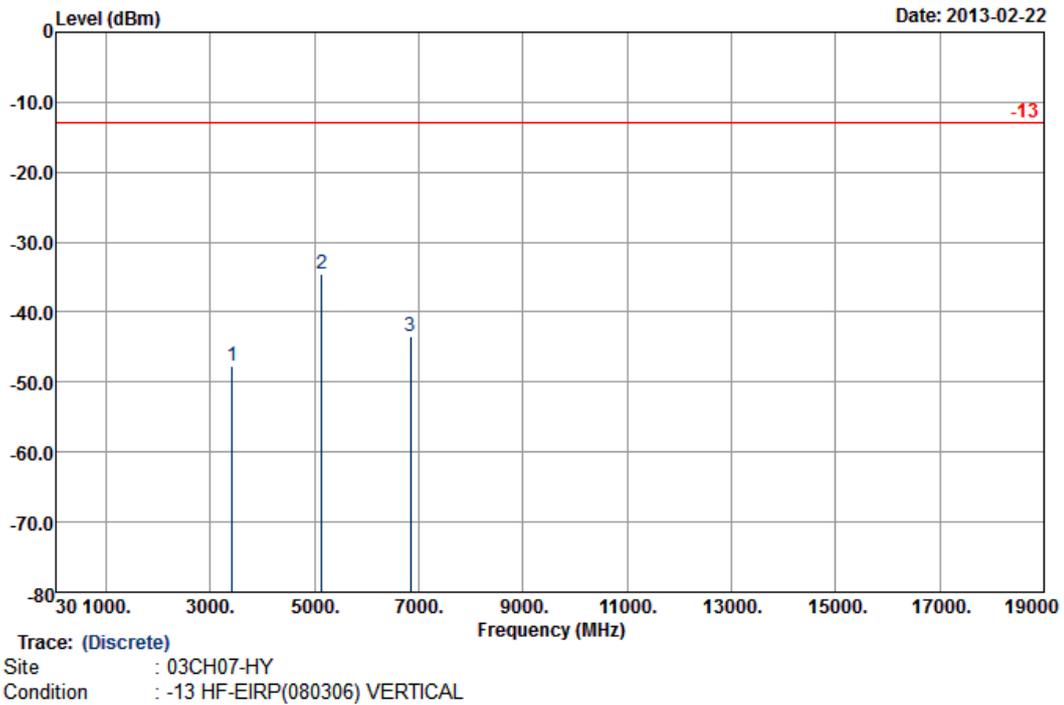


Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-45.68	-13	-32.68	-59.95	-47.36	4.48	8.31	H	Pass
5132	-29.25	-13	-16.25	-47.6	-31.74	5.332	9.98	H	Pass
6840	-42.49	-13	-29.49	-68.2	-45.58	6.1	11.34	H	Pass



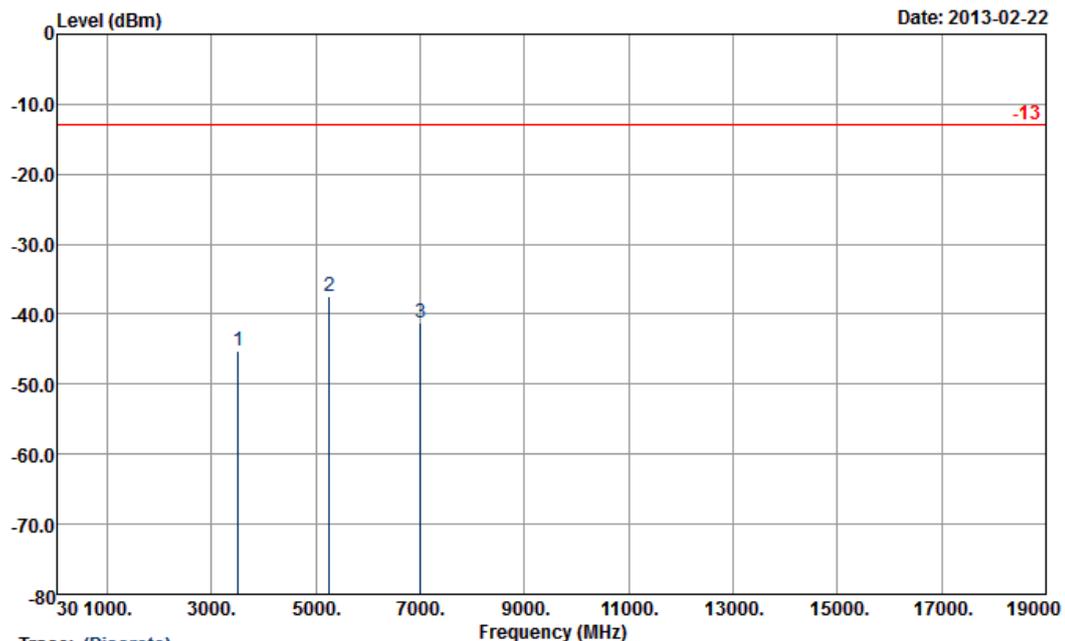
Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-47.69	-13	-34.69	-63.21	-49.37	4.48	8.31	V	Pass
5132	-34.63	-13	-21.63	-53.22	-37.12	5.332	9.98	V	Pass
6840	-43.36	-13	-30.36	-68.33	-46.45	6.1	11.34	V	Pass



Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

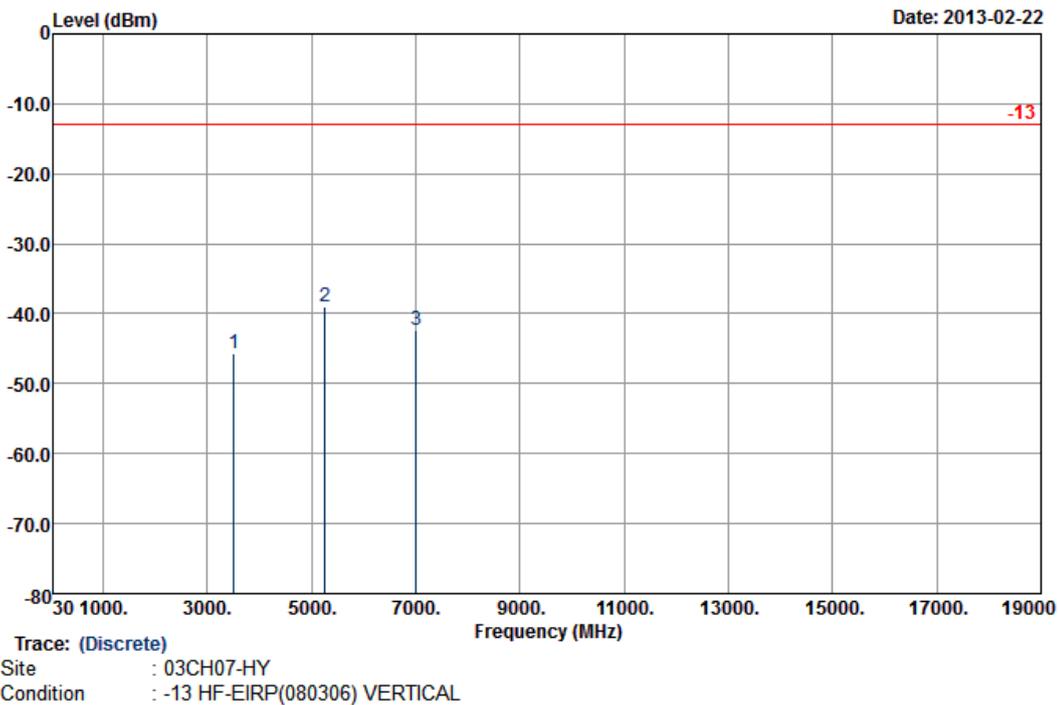


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3504	-45.25	-13	-32.25	-59.57	-46.93	4.48	8.31	H	Pass
5256	-37.35	-13	-24.35	-56.34	-39.84	5.332	9.98	H	Pass
7008	-41.22	-13	-28.22	-67.81	-44.31	6.1	11.34	H	Pass



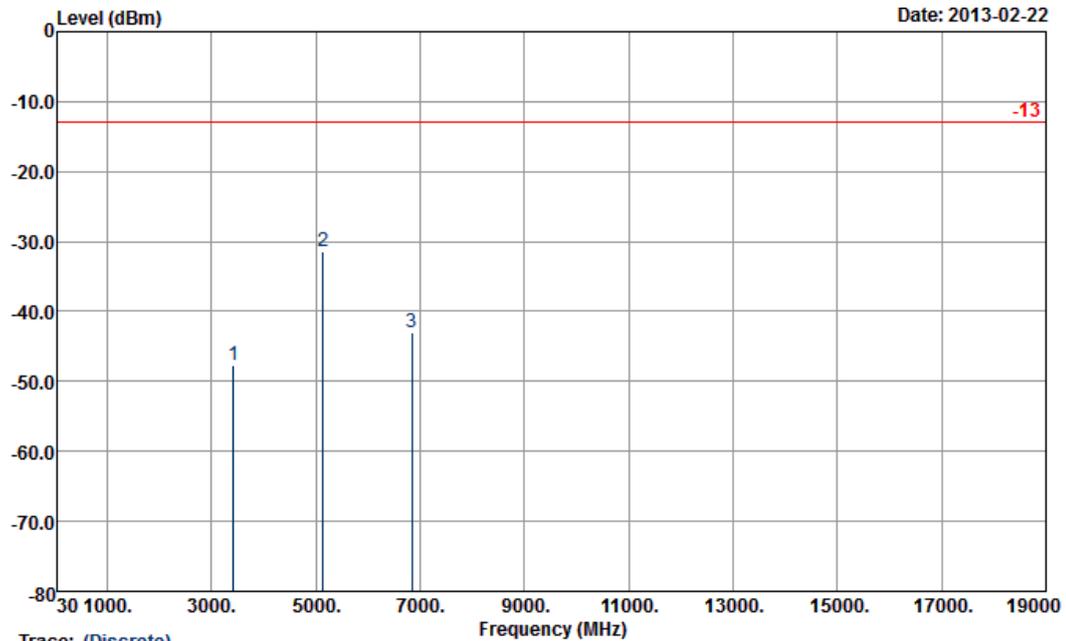
Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3504	-45.58	-13	-32.58	-61.14	-47.26	4.48	8.31	V	Pass
5256	-39.00	-13	-26.00	-58.12	-41.49	5.332	9.98	V	Pass
7008	-42.29	-13	-29.29	-67.9	-45.38	6.1	11.34	V	Pass



Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

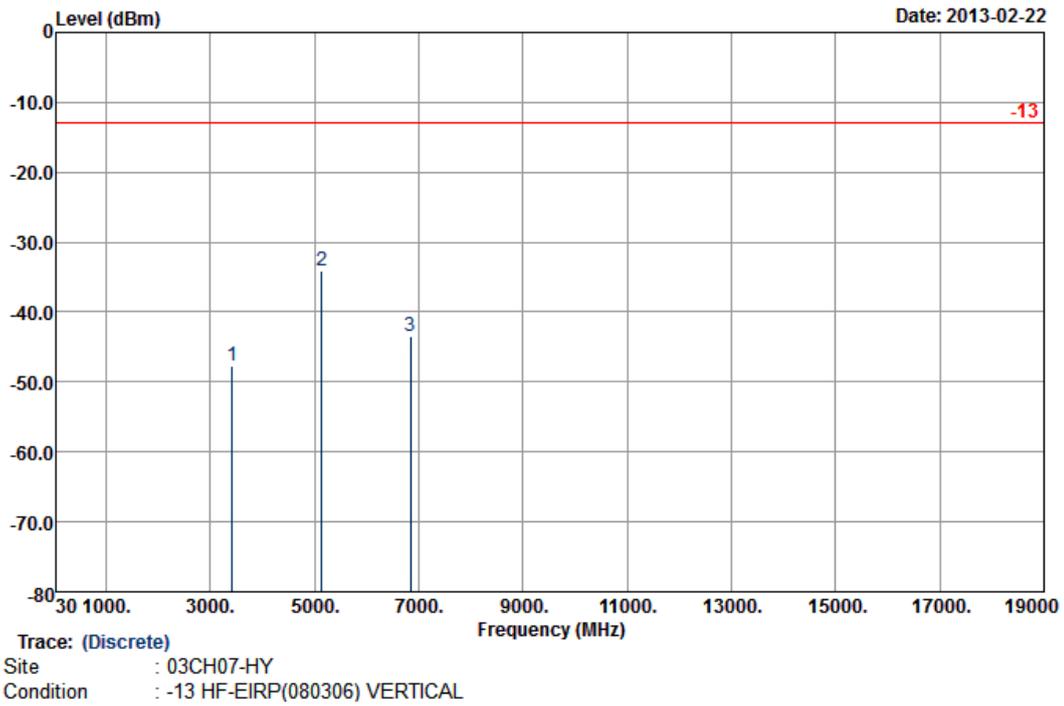


Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-47.75	-13	-34.75	-61.95	-49.43	4.48	8.31	H	Pass
5132	-31.40	-13	-18.40	-49.94	-33.89	5.332	9.98	H	Pass
6840	-43.05	-13	-30.05	-68.67	-46.14	6.1	11.34	H	Pass



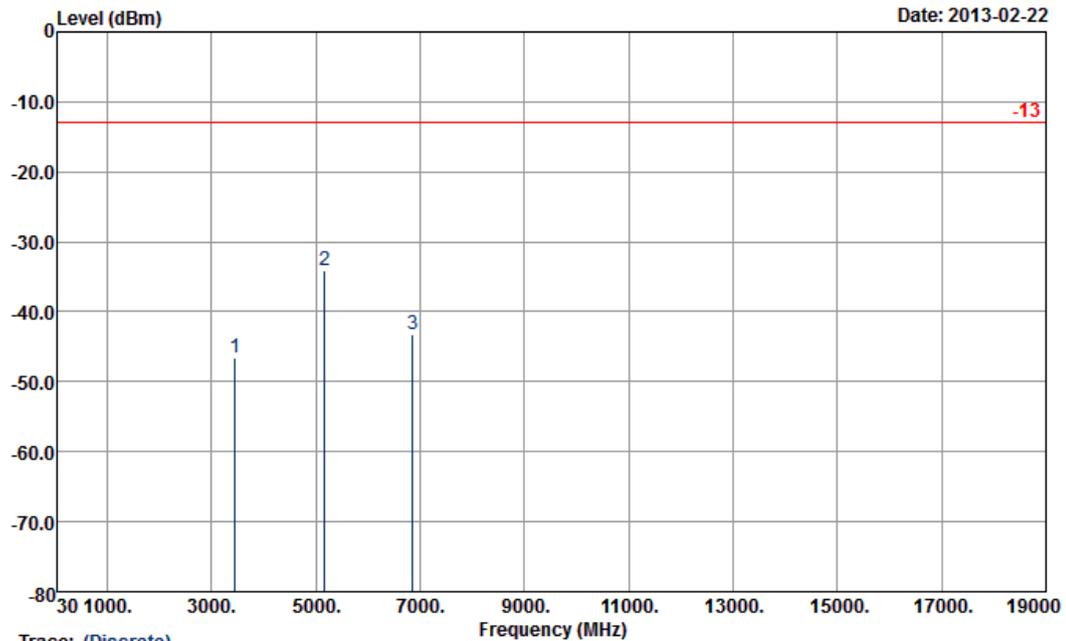
Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-47.78	-13	-34.78	-63.29	-49.46	4.48	8.31	V	Pass
5132	-34.15	-13	-21.15	-52.75	-36.64	5.332	9.98	V	Pass
6840	-43.39	-13	-30.39	-68.46	-46.48	6.1	11.34	V	Pass



Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 49	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

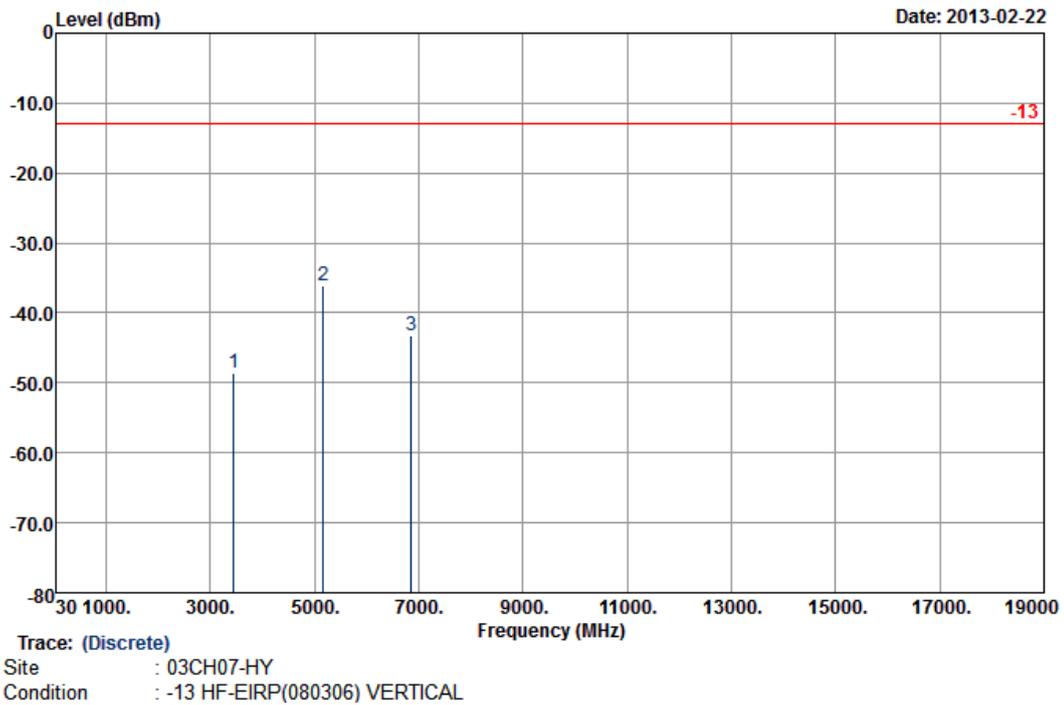


Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3440	-46.56	-13	-33.56	-61.8	-48.24	4.48	8.31	H	Pass
5160	-34.03	-13	-21.03	-54.02	-36.52	5.332	9.98	H	Pass
6860	-43.17	-13	-30.17	-69.01	-46.26	6.1	11.34	H	Pass



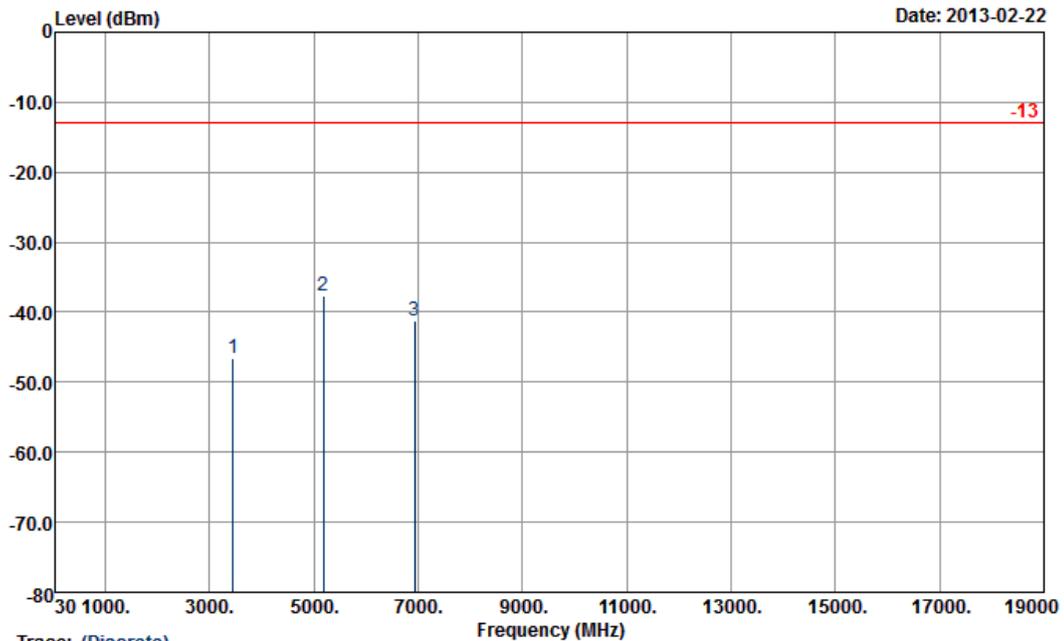
Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 49	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3440	-48.52	-13	-35.52	-64.28	-50.2	4.48	8.31	V	Pass
5160	-36.09	-13	-23.09	-56.41	-38.58	5.332	9.98	V	Pass
6860	-43.15	-13	-30.15	-68.83	-46.24	6.1	11.34	V	Pass



Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	15MHz, 16QAM, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

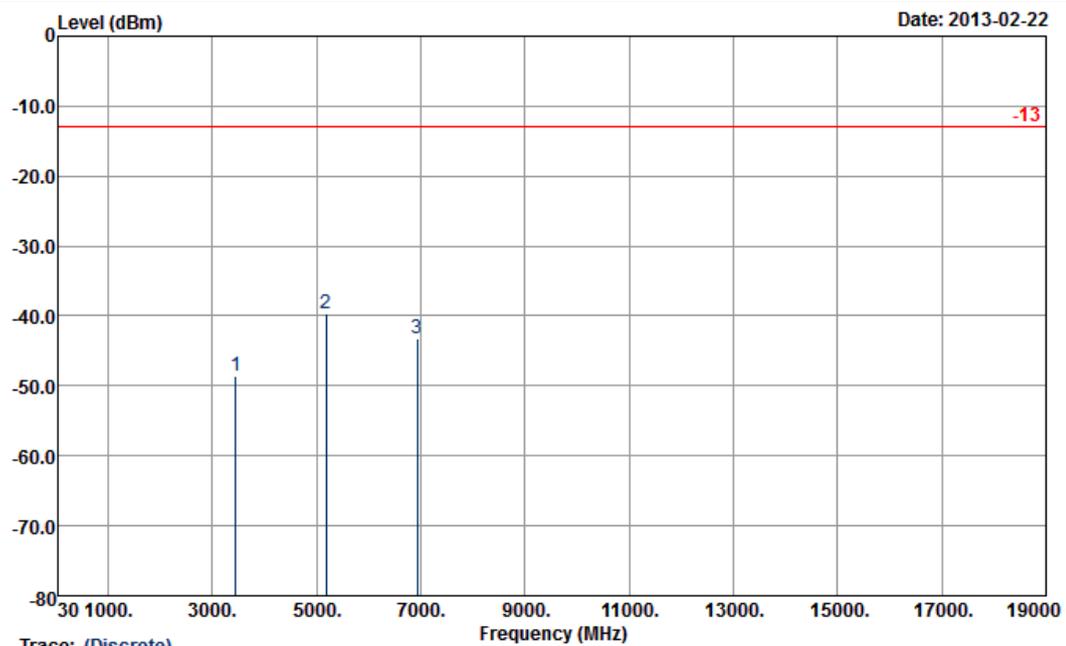


Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3452	-46.56	-13	-33.56	-61.2	-48.24	4.48	8.31	H	Pass
5176	-37.72	-13	-24.72	-57.22	-40.21	5.332	9.98	H	Pass
6928	-41.29	-13	-28.29	-69.1	-44.38	6.1	11.34	H	Pass



Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	15MHz, 16QAM, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

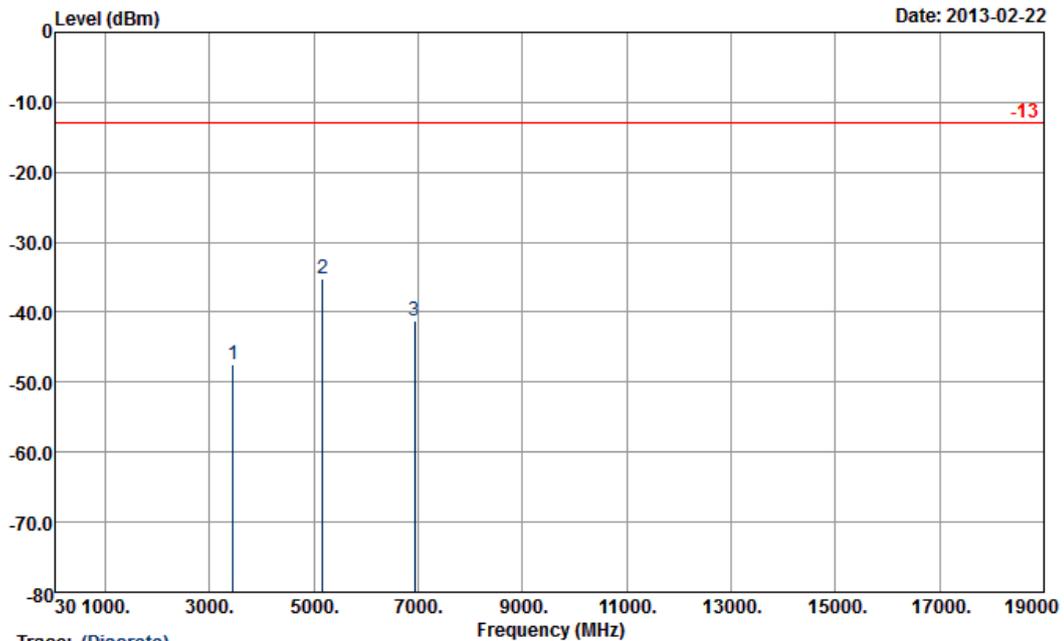


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3452	-48.57	-13	-35.57	-64.19	-50.25	4.48	8.31	V	Pass
5176	-39.66	-13	-26.66	-59.28	-42.15	5.332	9.98	V	Pass
6928	-43.15	-13	-30.15	-69.04	-46.24	6.1	11.34	V	Pass



Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	20MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

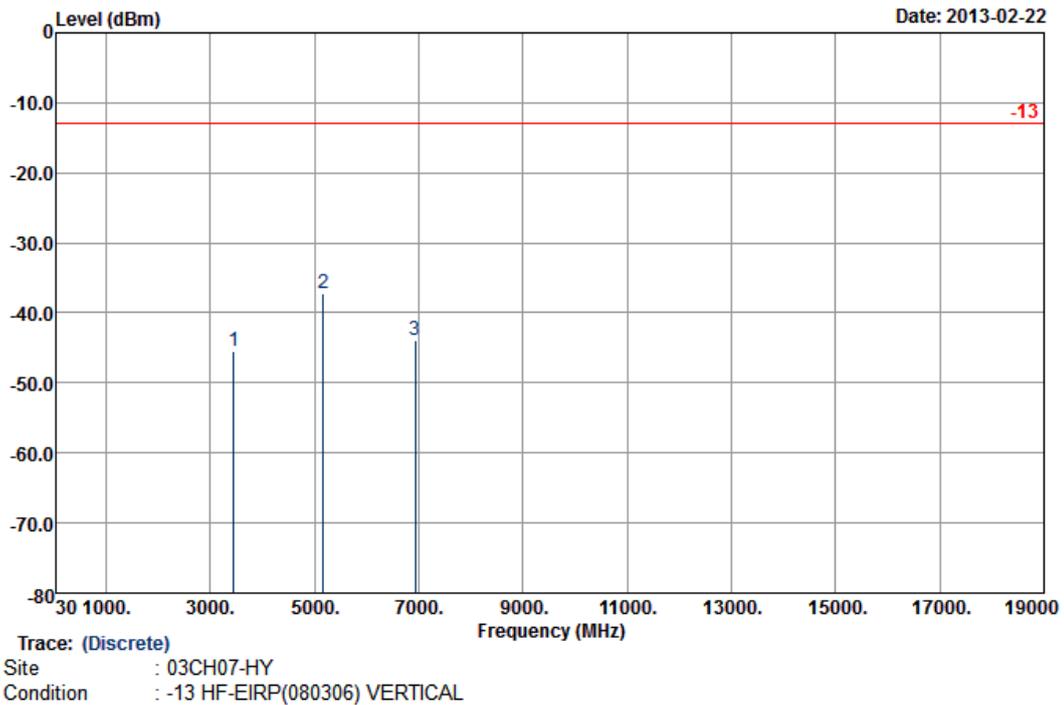


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3444	-47.56	-13	-34.56	-61.29	-49.24	4.48	8.31	H	Pass
5172	-35.28	-13	-22.28	-54.89	-37.77	5.332	9.98	H	Pass
6928	-41.24	-13	-28.24	-67.79	-44.33	6.1	11.34	H	Pass



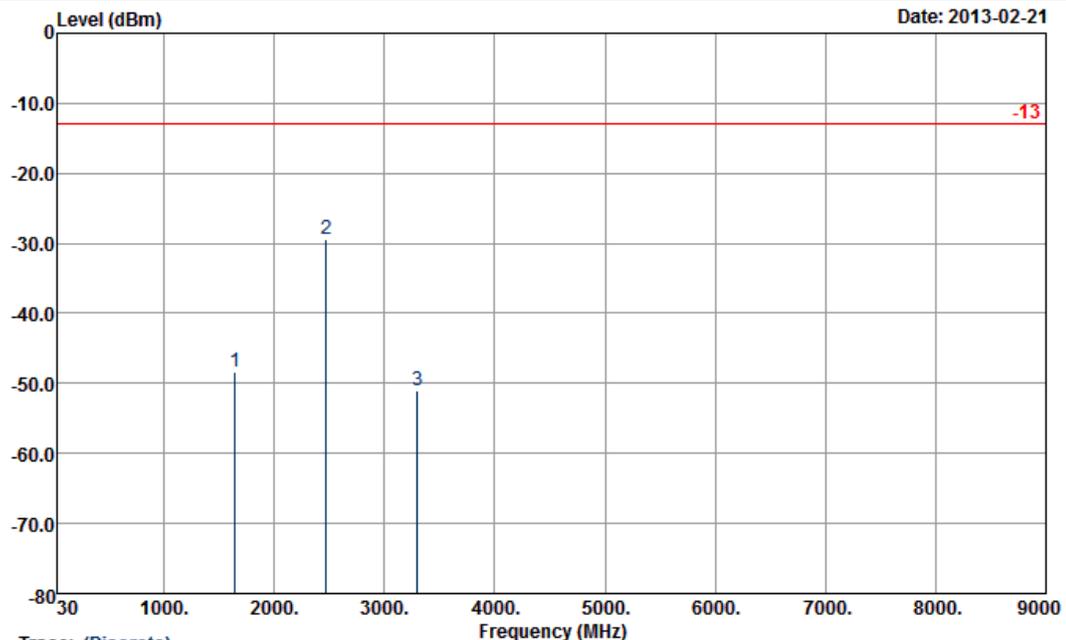
Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	20MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3444	-45.43	-13	-32.43	-62.02	-47.11	4.48	8.31	V	Pass
5172	-37.28	-13	-24.28	-56.76	-39.77	5.332	9.98	V	Pass
6928	-43.90	-13	-30.90	-68.88	-46.99	6.1	11.34	V	Pass



Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

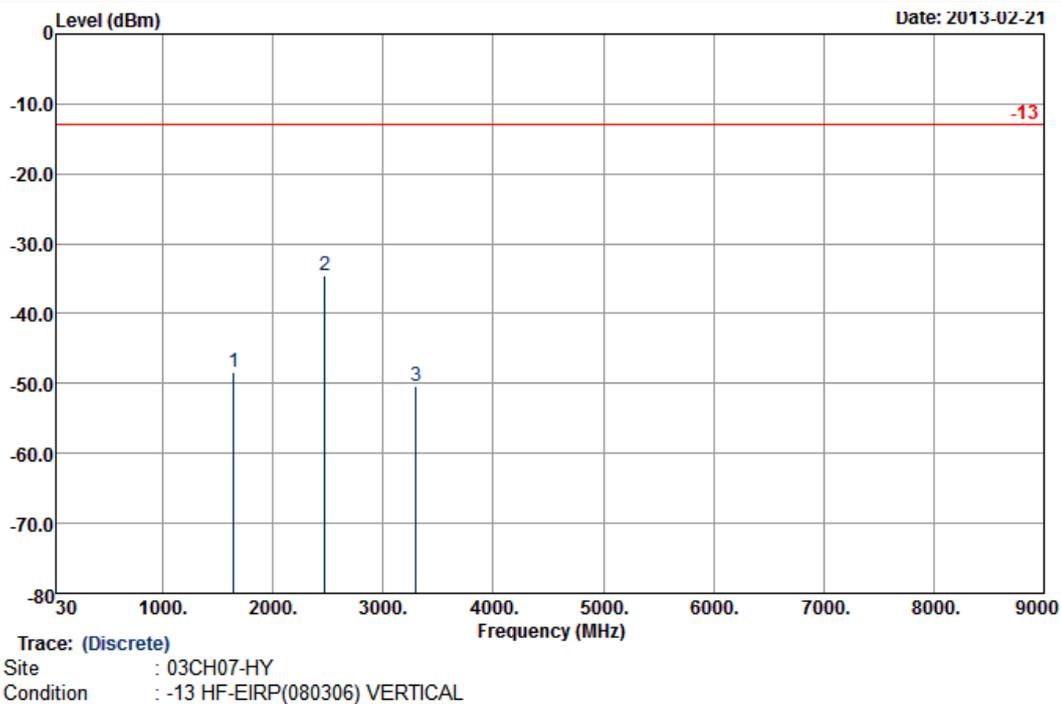


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-48.41	-13	-35.41	-57.16	-50.13	1.62	5.49	H	Pass
2473	-29.34	-13	-16.34	-42.5	-31.31	2.1	6.22	H	Pass
3298	-50.93	-13	-37.93	-64.94	-53.82	3.03	8.07	H	Pass



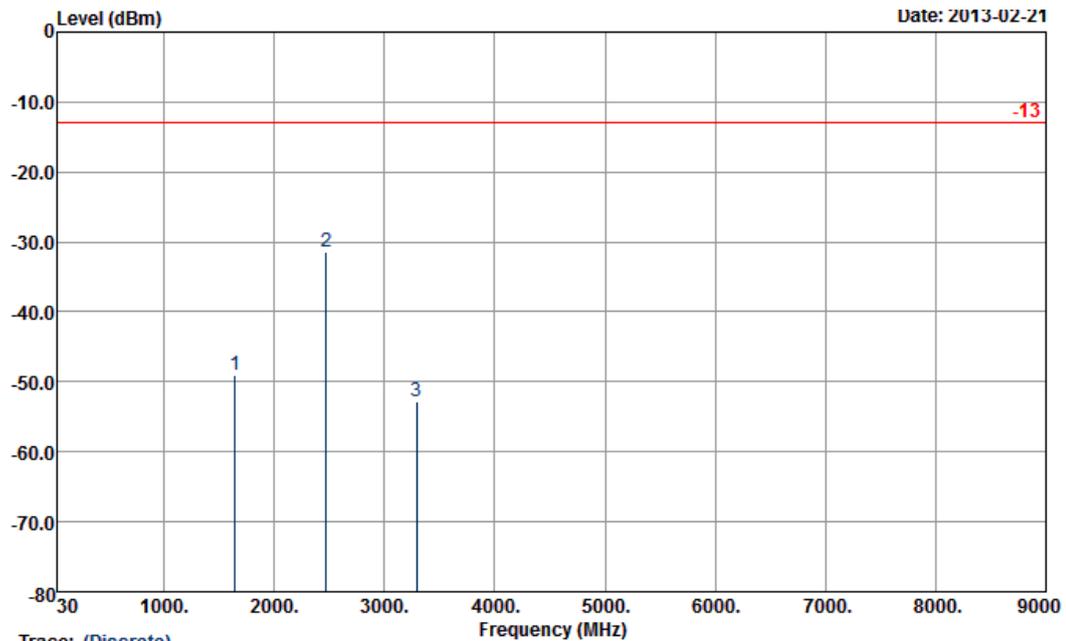
Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	1.4MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-48.31	-13	-35.31	-59.29	-50.03	1.62	5.49	V	Pass
2473	-34.48	-13	-21.48	-48.1	-36.45	2.1	6.22	V	Pass
3298	-50.35	-13	-37.35	-65.94	-53.24	3.03	8.07	V	Pass



Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

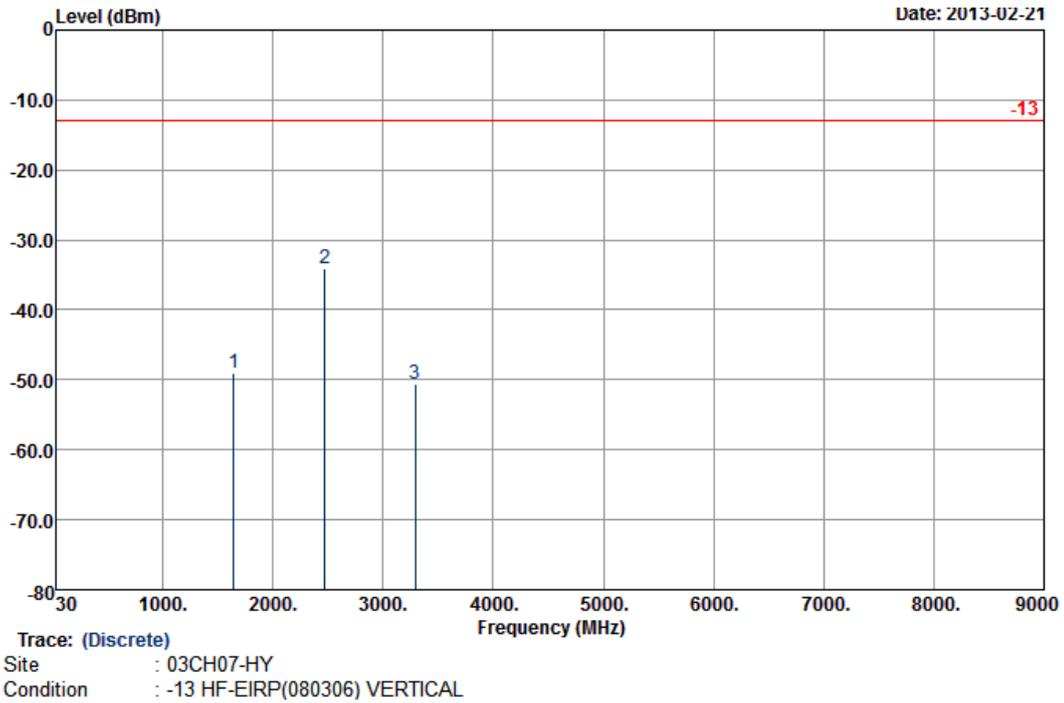


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-49.02	-13	-36.02	-57.76	-50.74	1.62	5.49	H	Pass
2473	-31.45	-13	-18.45	-44.64	-33.42	2.1	6.22	H	Pass
3295	-52.83	-13	-39.83	-67.07	-55.72	3.03	8.07	H	Pass



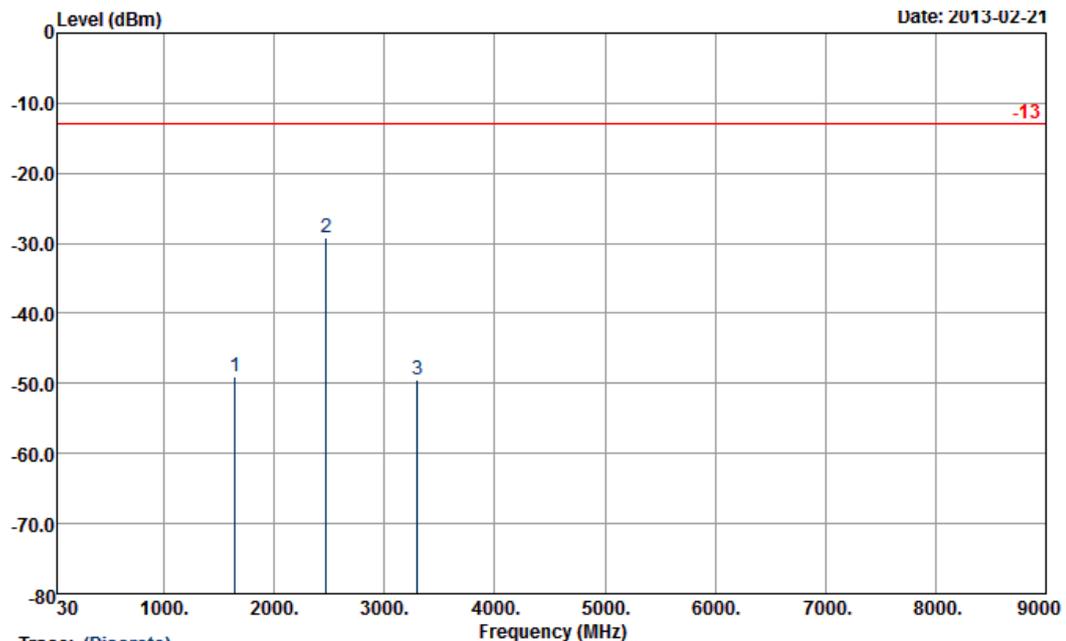
Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	3MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-49.13	-13	-36.13	-60.1	-50.85	1.62	5.49	V	Pass
2473	-34.00	-13	-21.00	-47.63	-35.97	2.1	6.22	V	Pass
3295	-50.62	-13	-37.62	-66.39	-53.51	3.03	8.07	V	Pass



Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

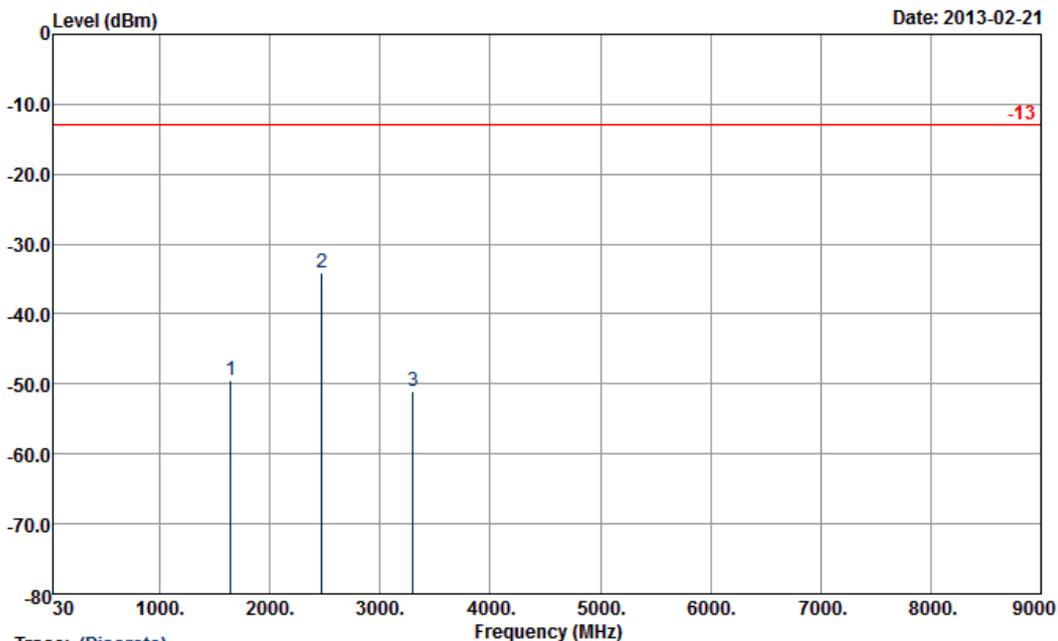


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-48.98	-13	-35.98	-57.71	-50.7	1.62	5.49	H	Pass
2473	-29.16	-13	-16.16	-42.32	-31.13	2.1	6.22	H	Pass
3296	-49.39	-13	-36.39	-66.39	-52.28	3.03	8.07	H	Pass



Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

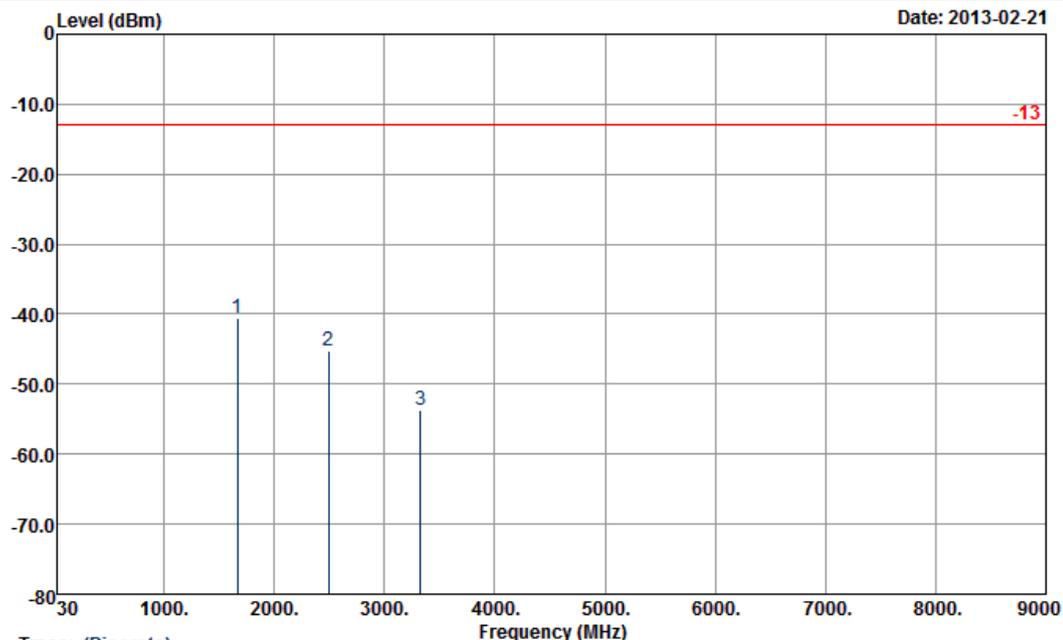


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-49.44	-13	-36.44	-60.44	-51.16	1.62	5.49	V	Pass
2473	-34.01	-13	-21.01	-47.65	-35.98	2.1	6.22	V	Pass
3296	-50.92	-13	-37.92	-66.54	-53.81	3.03	8.07	V	Pass



Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

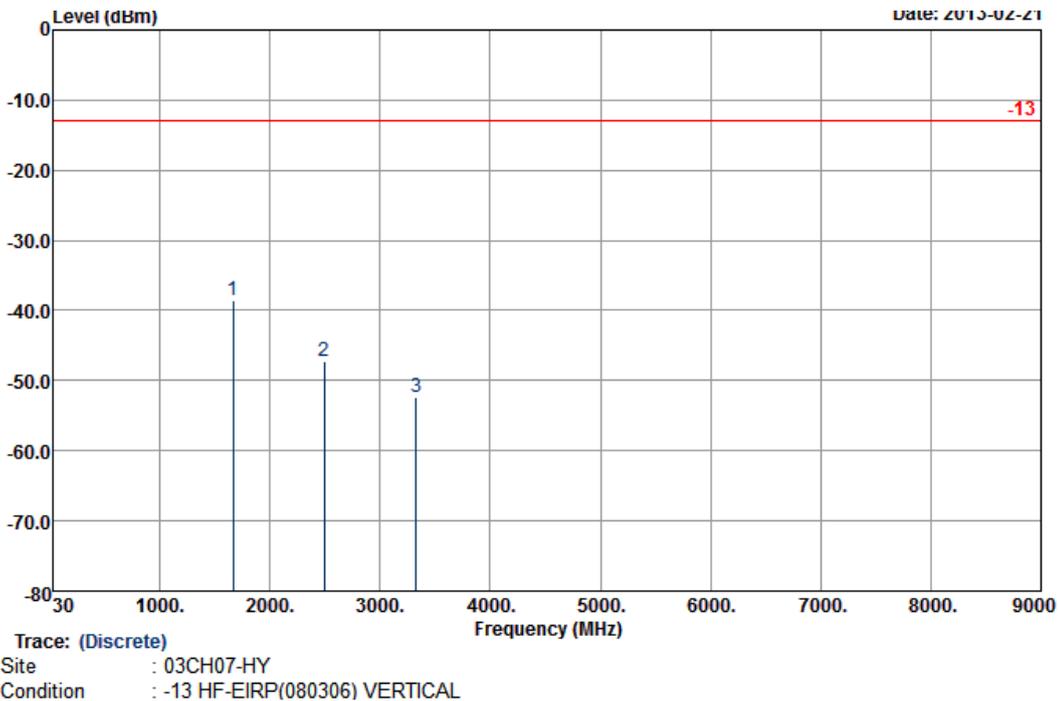


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1663	-40.53	-13	-27.53	-49.34	-42.25	1.62	5.49	H	Pass
2497	-45.32	-13	-32.32	-58.61	-47.29	2.1	6.22	H	Pass
3326	-53.79	-13	-40.79	-67.87	-56.68	3.03	8.07	H	Pass



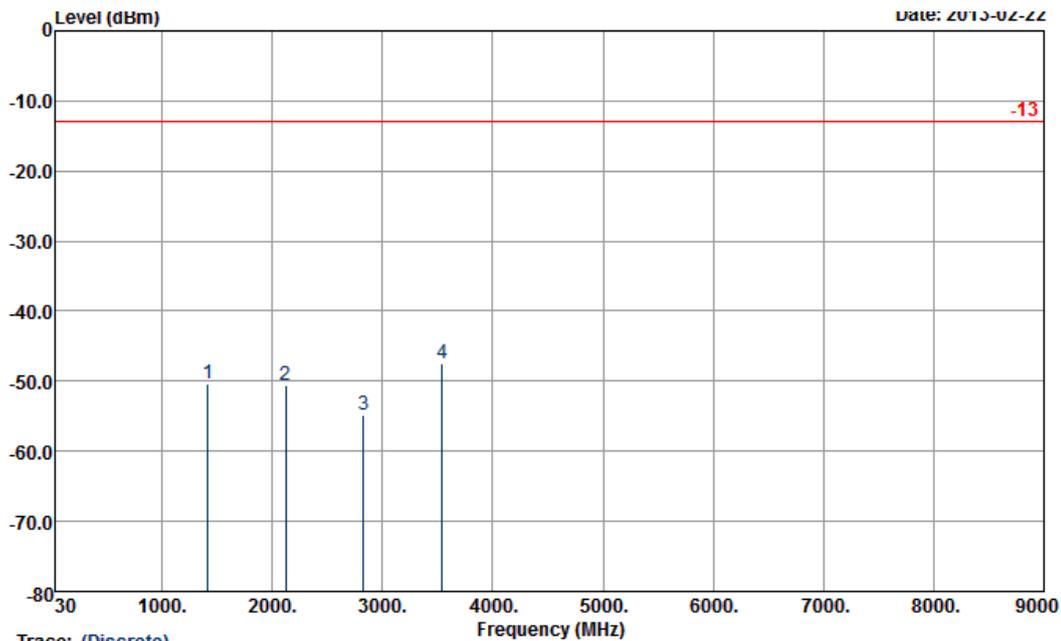
Band :	LTE Band 5	Temperature :	22~24°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1663	-38.51	-13	-25.51	-49.59	-40.23	1.62	5.49	V	Pass
2497	-47.15	-13	-34.15	-60.84	-49.12	2.1	6.22	V	Pass
3325	-52.32	-13	-39.32	-67.93	-55.21	3.03	8.07	V	Pass



Band :	LTE Band 17	Temperature :	22~24°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 24	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

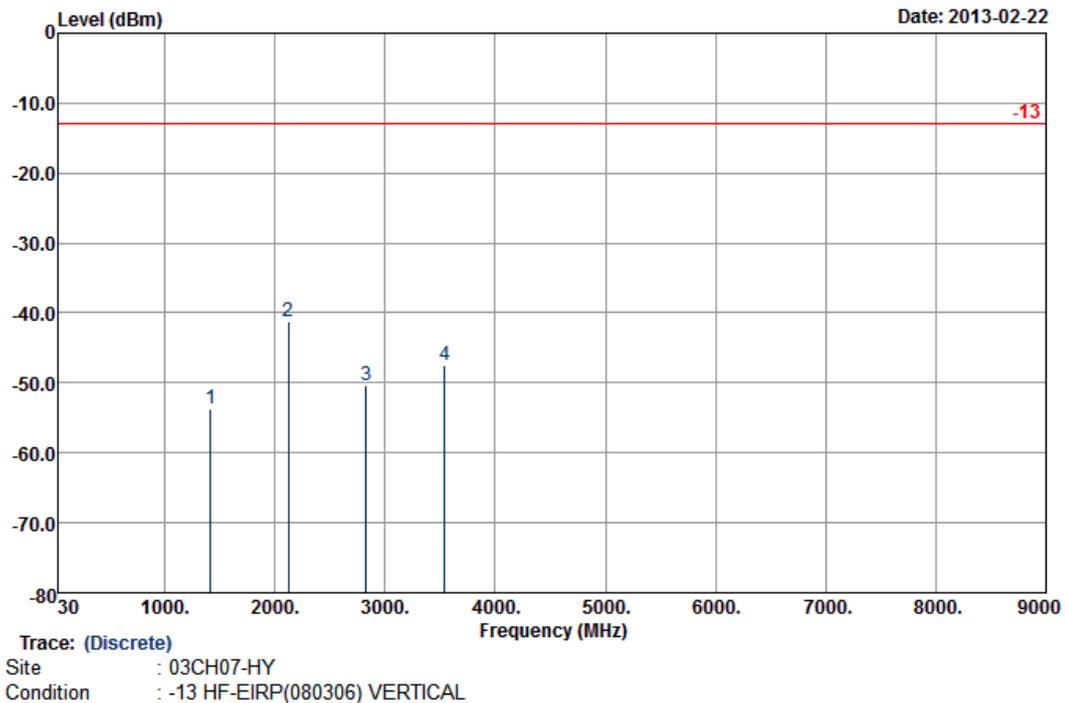


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1417	-50.31	-13	-37.31	-59.4	-52.25	1.51	5.60	H	Pass
2125	-50.55	-13	-37.55	-62.85	-52.58	1.82	6.00	H	Pass
2827	-54.84	-13	-41.84	-67.76	-57.47	2.2	6.98	H	Pass
3544	-47.55	-13	-34.55	-62.58	-51.22	2.42	8.24	H	Pass



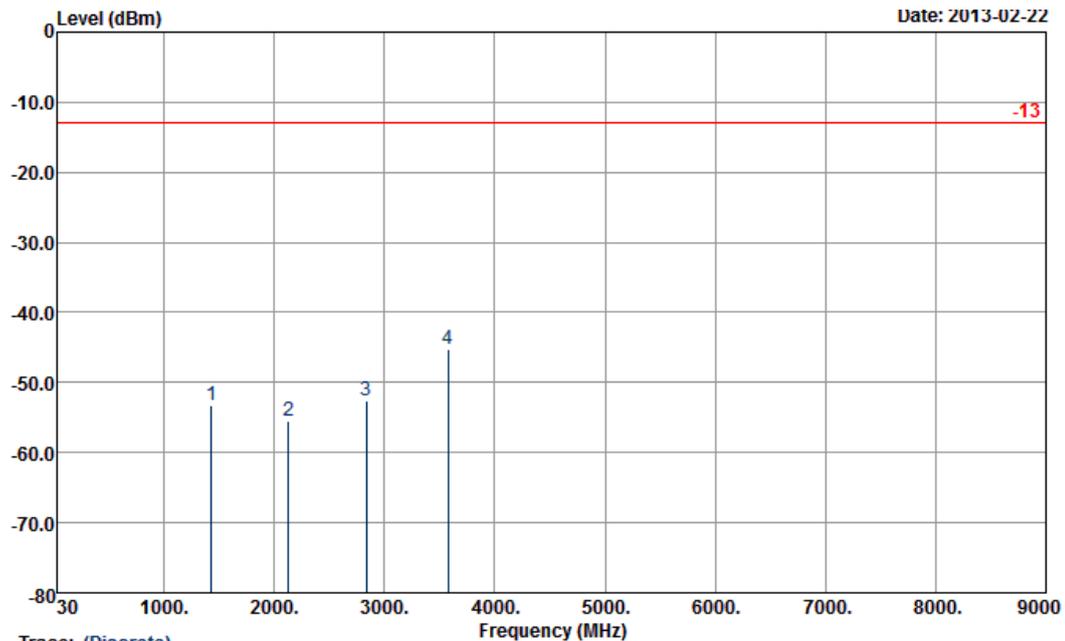
Band :	LTE Band 17	Temperature :	22~24°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 24	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1417	-53.63	-13	-40.63	-65.02	-55.57	1.51	5.60	V	Pass
2125	-41.21	-13	-28.21	-55.1	-43.24	1.82	6.00	V	Pass
2827	-50.36	-13	-37.36	-67.38	-52.99	2.2	6.98	V	Pass
3544	-47.44	-13	-34.44	-63.97	-51.11	2.42	8.24	V	Pass



Band :	LTE Band 17	Temperature :	22~24°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 49	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

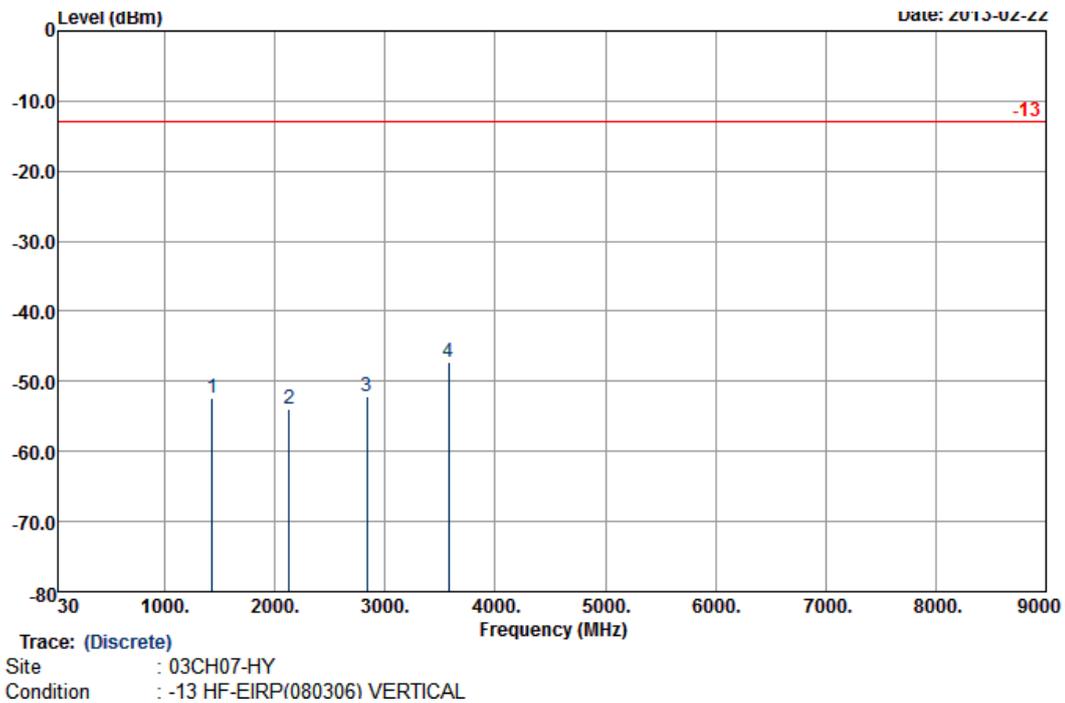


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : -13 HF-FIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1429	-53.33	-13	-40.33	-61.86	-55.26	1.53	5.61	H	Pass
2131	-55.54	-13	-42.54	-67.27	-57.56	1.85	6.02	H	Pass
2839	-52.50	-13	-39.50	-67.26	-55.11	2.24	7.00	H	Pass
3574	-45.24	-13	-32.24	-60.51	-48.89	2.46	8.26	H	Pass



Band :	LTE Band 17	Temperature :	22~24°C
Test Mode :	10MHz, QPSK, RB Size 1, RB Offset 49	Relative Humidity :	51~53%
Test Engineer :	Marlboro Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1429	-52.33	-13	-39.33	-63.87	-54.26	1.53	5.61	V	Pass
2131	-53.86	-13	-40.86	-67.2	-55.88	1.85	6.02	V	Pass
2839	-52.16	-13	-39.16	-67.39	-54.77	2.24	7.00	V	Pass
3574	-47.34	-13	-34.34	-64.09	-50.99	2.46	8.26	V	Pass

3.7 Frequency Stability Measurement

3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

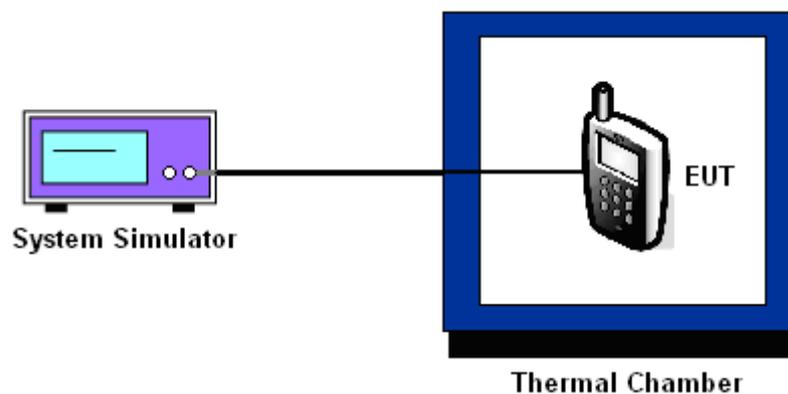
3.7.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT cannot be turned on at -30°C , the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

3.7.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the base station.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

3.7.5 Test Setup



3.7.6 Test Result of Temperature Variation

Band :	LTE Band 2 (QPSK)	Limit (ppm) :	2.5
Temperature ($^{\circ}\text{C}$)	BW 1.4MHz	BW 3MHz	Result



	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-23.8	-0.013	-15.2	-0.008	PASS
-20	-22.9	-0.012	-16.3	-0.009	
-10	-22.4	-0.012	-17.1	-0.009	
0	-23.1	-0.012	-16.1	-0.009	
10	-22.3	-0.012	-14.6	-0.008	
20	-25.2	-0.013	13.4	0.007	
30	-21.8	-0.012	-13.3	-0.007	
40	-23.1	-0.012	-14.5	-0.008	
50	24.0	0.013	16.4	0.009	
55	29.0	0.015	18.7	0.010	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 2 (QPSK)	Limit (ppm) :	2.5
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Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-19.8	-0.011	-22.2	-0.012	PASS
-20	-17.6	-0.009	-20.9	-0.011	
-10	-13.1	-0.007	-19.1	-0.010	
0	-14.2	-0.008	-18.7	-0.010	
10	-13.5	-0.007	-19.2	-0.010	
20	-13.7	-0.007	20.5	0.011	
30	-20.6	-0.011	21.1	0.011	
40	-19.6	-0.010	20.1	0.011	
50	21.3	0.011	19.9	0.011	
55	23.5	0.013	20.8	0.011	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 2 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-16.9	-0.010	-12.4	-0.007	PASS
-20	-15.8	-0.009	11.2	0.006	
-10	14.3	0.008	11.5	0.007	
0	13.5	0.008	10.9	0.006	
10	13.8	0.008	11.3	0.007	
20	13.7	0.008	11.2	0.006	
30	12.6	0.007	10.8	0.006	
40	13.5	0.008	12.5	0.007	
50	17.5	0.010	16.9	0.010	
55	20.8	0.012	18.9	0.011	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 2 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-25.9	-0.014	-17.8	-0.009	PASS
-20	-25.0	-0.013	-18.9	-0.010	
-10	-24.5	-0.013	-19.7	-0.010	
0	-25.2	-0.013	-18.7	-0.010	
10	-24.4	-0.013	-17.2	-0.009	
20	-27.3	-0.015	10.8	0.006	
30	-23.9	-0.013	-15.9	-0.008	
40	-25.2	-0.013	-17.1	-0.009	
50	21.9	0.012	13.8	0.007	
55	26.9	0.014	16.1	0.009	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 2 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-22.5	-0.012	-25.5	-0.014	PASS
-20	-20.3	-0.011	-24.2	-0.013	
-10	-15.8	-0.008	-22.4	-0.012	
0	-16.9	-0.009	-22.0	-0.012	
10	-16.2	-0.009	-22.5	-0.012	
20	-16.4	-0.009	17.2	0.009	
30	-23.3	-0.012	17.8	0.009	
40	-22.3	-0.012	16.8	0.009	
50	18.6	0.010	16.6	0.009	
55	20.8	0.011	17.5	0.009	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 2 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-19.5	-0.011	-13.9	-0.008	PASS
-20	-18.4	-0.011	9.7	0.006	
-10	11.7	0.007	10.0	0.006	
0	10.9	0.006	9.4	0.005	
10	11.2	0.006	9.8	0.006	
20	11.1	0.006	9.7	0.006	
30	10.0	0.006	9.3	0.005	
40	10.9	0.006	11.0	0.006	
50	14.9	0.009	15.4	0.009	
55	18.2	0.011	17.4	0.010	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 4 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	11.5	0.007	11.8	0.007	PASS
-20	12.3	0.007	11.6	0.007	
-10	13.3	0.008	11.4	0.007	
0	12.9	0.007	10.8	0.006	
10	13.4	0.008	9.6	0.006	
20	13.7	0.008	8.8	0.005	
30	9.6	0.006	9.3	0.005	
40	9.3	0.005	8.9	0.005	
50	8.6	0.005	9.5	0.005	
55	8.9	0.005	9.9	0.006	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 4 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	9.8	0.006	8.8	0.005	PASS
-20	9.1	0.005	9.1	0.005	
-10	9.4	0.005	8.6	0.005	
0	8.5	0.005	8.3	0.005	
10	9.3	0.005	9.2	0.005	
20	7.4	0.004	10.2	0.006	
30	10.5	0.006	8.5	0.005	
40	11.2	0.006	8.9	0.005	
50	11.9	0.007	9.5	0.005	
55	12.9	0.007	10.7	0.006	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 4 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	9.2	0.005	9.1	0.005	PASS
-20	8.9	0.005	10.3	0.006	
-10	8.5	0.005	11.2	0.006	
0	8.7	0.005	10.6	0.006	
10	8.6	0.005	9.5	0.005	
20	8.3	0.005	8.7	0.005	
30	8.6	0.005	10.5	0.006	
40	7.9	0.005	10.8	0.006	
50	8.1	0.005	10.2	0.006	
55	8.4	0.005	11.1	0.006	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 4 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	13.3	0.008	13.9	0.008	PASS
-20	14.1	0.008	13.7	0.008	
-10	15.1	0.009	13.5	0.008	
0	14.7	0.008	12.9	0.007	
10	15.2	0.009	11.7	0.007	
20	15.5	0.009	10.9	0.006	
30	11.4	0.007	11.4	0.007	
40	11.1	0.006	11.0	0.006	
50	10.4	0.006	11.6	0.007	
55	10.7	0.006	12.0	0.007	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 4 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	12.4	0.007	11.6	0.007	PASS
-20	11.7	0.007	11.9	0.007	
-10	12.0	0.007	11.4	0.007	
0	11.1	0.006	11.1	0.006	
10	11.9	0.007	12.0	0.007	
20	10.0	0.006	13.0	0.008	
30	13.1	0.008	11.3	0.007	
40	13.8	0.008	11.7	0.007	
50	14.5	0.008	12.3	0.007	
55	15.5	0.009	13.5	0.008	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 4 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	11.5	0.007	11.3	0.007	PASS
-20	11.2	0.006	12.5	0.007	
-10	10.8	0.006	13.4	0.008	
0	11.0	0.006	12.8	0.007	
10	10.9	0.006	11.7	0.007	
20	10.6	0.006	10.9	0.006	
30	10.9	0.006	12.7	0.007	
40	10.2	0.006	13.0	0.008	
50	10.4	0.006	12.4	0.007	
55	10.7	0.006	13.3	0.008	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 5 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.5	0.007	6.4	0.008	PASS
-20	6.4	0.008	6.1	0.007	
-10	5.9	0.007	5.8	0.007	
0	6.5	0.008	6.0	0.007	
10	5.8	0.007	5.3	0.006	
20	5.2	0.006	5.7	0.007	
30	5.6	0.007	6.4	0.008	
40	4.9	0.006	5.1	0.006	
50	5.8	0.007	5.6	0.007	
55	4.6	0.005	5.0	0.006	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 5 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	7.4	0.009	4.6	0.005	PASS
-20	7.6	0.009	4.8	0.006	
-10	6.2	0.007	4.6	0.005	
0	7.0	0.008	5.0	0.006	
10	4.6	0.005	3.4	0.004	
20	6.1	0.007	4.8	0.006	
30	5.3	0.006	5.1	0.006	
40	4.6	0.005	4.5	0.005	
50	5.1	0.006	5.3	0.006	
55	3.8	0.005	5.8	0.007	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 5 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	7.2	0.009	8.2	0.010	PASS
-20	8.1	0.010	7.9	0.009	
-10	7.6	0.009	7.6	0.009	
0	8.2	0.010	7.8	0.009	
10	7.5	0.009	7.1	0.008	
20	6.9	0.008	7.5	0.009	
30	7.3	0.009	8.2	0.010	
40	6.6	0.008	6.9	0.008	
50	7.5	0.009	7.4	0.009	
55	6.3	0.008	6.8	0.008	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 5 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	8.6	0.010	6.8	0.008	PASS
-20	8.8	0.011	7.0	0.008	
-10	7.4	0.009	6.8	0.008	
0	8.2	0.010	7.2	0.009	
10	5.8	0.007	5.6	0.007	
20	7.3	0.009	7.0	0.008	
30	6.5	0.008	7.3	0.009	
40	5.8	0.007	6.7	0.008	
50	6.3	0.008	7.5	0.009	
55	5.0	0.006	8.0	0.010	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



Band :	LTE Band 17 (QPSK)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.2	0.007	7.1	0.010	PASS
-20	4.8	0.007	6.5	0.009	
-10	5.1	0.007	6.9	0.010	
0	4.6	0.006	6.2	0.009	
10	4.8	0.007	5.2	0.007	
20	4.2	0.006	4.7	0.007	
30	4.1	0.006	5.7	0.008	
40	4.6	0.006	4.6	0.006	
50	4.9	0.007	5.8	0.008	
55	-4.5	-0.006	-4.1	-0.006	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

Band :	LTE Band 17 (16QAM)		Limit (ppm) :	2.5	
Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	5.8	0.008	8.3	0.012	PASS
-20	5.4	0.008	7.7	0.011	
-10	5.7	0.008	8.1	0.011	
0	5.2	0.007	7.4	0.010	
10	5.4	0.008	6.4	0.009	
20	4.8	0.007	5.9	0.008	
30	4.7	0.007	6.9	0.010	
40	5.2	0.007	5.8	0.008	
50	5.9	0.008	7.0	0.010	
55	5.6	0.008	7.3	0.010	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.



3.7.7 Test Result of Voltage Variation

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 2 (QPSK)	1.4M	3.5	-23.8	-0.013	2.5	PASS
		Normal	-24.7	-0.013		
		4.2	-23.7	-0.013		
	3M	3.5	15.2	0.008		
		Normal	17.5	0.009		
		4.2	-17.6	-0.009		
	5M	3.5	-21.0	-0.011		
		Normal	-19.3	-0.010		
		4.2	-21.2	-0.011		
	10M	3.5	19.2	0.010		
		Normal	-19.0	-0.010		
		4.2	17.8	0.009		
	15M	3.5	-16.2	-0.009		
		Normal	-18.5	-0.011		
		4.2	-26.1	-0.015		
	20M	3.5	-18.1	-0.010		
		Normal	-18.5	-0.011		
		4.2	-20.6	-0.012		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 2 (16QAM)	1.4M	3.5	-24.6	-0.013	2.5	PASS
		Normal	-25.5	-0.014		
		4.2	-24.5	-0.013		
	3M	3.5	14.4	0.008		
		Normal	16.7	0.009		
		4.2	-18.4	-0.010		
	5M	3.5	-21.8	-0.012		
		Normal	-20.1	-0.011		
		4.2	-22.0	-0.012		
	10M	3.5	18.4	0.010		
		Normal	-19.8	-0.011		
		4.2	17.0	0.009		
	15M	3.5	-17.0	-0.010		
		Normal	-19.3	-0.011		
		4.2	-26.9	-0.016		
	20M	3.5	-18.9	-0.011		
		Normal	-19.3	-0.011		
		4.2	-21.4	-0.012		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 4 (QPSK)	1.4M	3.5	13.9	0.008	2.5	PASS
		Normal	13.6	0.008		
		4.2	14.5	0.008		
	3M	3.5	9.1	0.005		
		Normal	9.2	0.005		
		4.2	10.3	0.006		
	5M	3.5	8.2	0.005		
		Normal	7.9	0.005		
		4.2	8.7	0.005		
	10M	3.5	10.8	0.006		
		Normal	10.6	0.006		
		4.2	11.9	0.007		
	15M	3.5	7.5	0.004		
		Normal	7.8	0.005		
		4.2	8.6	0.005		
	20M	3.5	8.3	0.005		
		Normal	8.5	0.005		
		4.2	9.6	0.006		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 4 (16QAM)	1.4M	3.5	14.8	0.009	2.5	PASS
		Normal	14.5	0.008		
		4.2	15.4	0.009		
	3M	3.5	10.0	0.006		
		Normal	10.1	0.006		
		4.2	11.2	0.006		
	5M	3.5	9.1	0.005		
		Normal	8.8	0.005		
		4.2	9.6	0.006		
	10M	3.5	11.7	0.007		
		Normal	11.5	0.007		
		4.2	12.8	0.007		
	15M	3.5	8.4	0.005		
		Normal	8.7	0.005		
		4.2	9.5	0.005		
	20M	3.5	9.2	0.005		
		Normal	9.4	0.005		
		4.2	10.5	0.006		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5 (QPSK)	1.4M	3.5	5.5	0.007	2.5	PASS
		Normal	5.3	0.006		
		4.2	5.8	0.007		
	3M	3.5	5.2	0.006		
		Normal	5.4	0.006		
		4.2	5.7	0.007		
	5M	3.5	6.1	0.007		
		Normal	5.8	0.007		
		4.2	6.5	0.008		
	10M	3.5	4.5	0.005		
		Normal	4.9	0.006		
		4.2	5.7	0.007		

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5 (16QAM)	1.4M	3.5	6.9	0.008	2.5	PASS
		Normal	6.7	0.008		
		4.2	7.2	0.009		
	3M	3.5	6.6	0.008		
		Normal	6.8	0.008		
		4.2	7.1	0.008		
	5M	3.5	7.5	0.009		
		Normal	7.2	0.009		
		4.2	7.9	0.009		
	10M	3.5	5.9	0.007		
		Normal	6.3	0.008		
		4.2	7.1	0.008		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 17 (QPSK)	5M	3.5	5.1	0.007	2.5	PASS
		Normal	4.8	0.007		
		4.2	5.6	0.008		
	10M	3.5	4.9	0.007		
		Normal	5.7	0.008		
		4.2	6.2	0.009		

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 17 (16QAM)	5M	3.5	6.5	0.009	2.5	PASS
		Normal	6.2	0.009		
		4.2	7.0	0.010		
	10M	3.5	6.3	0.009		
		Normal	7.1	0.010		
		4.2	7.6	0.011		

Remark: Normal Voltage = 3.7V.



4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Data	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 29, 2012	Feb. 25, 2013~ Mar. 15, 2013	Dec. 28, 2013	Conducted (TH01-KS)
LTE Base Station	Anritsu	MT8820C	6201074235	LTE_FDD full band	Dec. 29, 2012	Feb. 25, 2013~ Mar. 15, 2013	Dec. 28, 2013	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Feb. 25, 2013~ Mar. 15, 2013	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 29, 2012	Feb. 25, 2013~ Mar. 15, 2013	Dec. 28, 2013	Conducted (TH01-KS)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 06, 2012	Feb. 21, 2013~ Feb. 22, 2013	Oct. 05, 2013	Radiation (03CH07-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9KHz ~ 30GHz	Nov. 30, 2012	Feb. 21, 2013~ Feb. 22, 2013	Nov. 29, 2013	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 22, 2012	Feb. 21, 2013~ Feb. 22, 2013	Aug. 21, 2013	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec. 01, 2012	Feb. 21, 2013~ Feb. 22, 2013	Nov. 30, 2013	Radiation (03CH07-HY)
Pre Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	159088	1GHz ~ 18GHz	Mar. 10, 2012	Feb. 21, 2013~ Feb. 22, 2013	Mar. 09, 2013	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz. 32dB.GAIN	Feb. 27, 2012	Feb. 21, 2013~ Feb. 22, 2013	Feb. 26, 2013	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Sep. 03, 2012	Feb. 21, 2013~ Feb. 22, 2013	Sep. 02, 2013	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Sep. 28, 2012	Feb. 21, 2013~ Feb. 22, 2013	Sep. 27, 2013	Radiation (03CH07-HY)
LTE Base Station	R&S	CMW500	123471	70MHz~3.3GHz	May 29, 2012	Feb. 21, 2013~ Feb. 22, 2013	May 28, 2013	Radiation (03CH07-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.54
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.72
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Appendix A. Photographs of EUT

Please refer to Sporton report number EP320406 as below.