



# FCC RF Test Report

APPLICANT : ZTE CORPORATION  
EQUIPMENT : GSM/WCDMA/LTE CPE  
BRAND NAME : ZTE  
MODEL NAME : Z700  
FCC ID : Q78-Z700  
STANDARD : 47 CFR Part 2, 22H, 24E, 27H, 27L  
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Dec. 28, 2012 and completely tested on Mar. 13, 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.**  
**No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.**



# TABLE OF CONTENTS

REVISION HISTORY..... 3

SUMMARY OF TEST RESULT ..... 4

**1 GENERAL DESCRIPTION ..... 5**

    1.1 Applicant ..... 5

    1.2 Manufacturer ..... 5

    1.3 Feature of Equipment Under Test ..... 6

    1.4 Emission Designator and Maximum ERP/EIRP Power ..... 7

    1.5 Testing Site ..... 9

    1.6 Applied Standards ..... 10

    1.7 Ancillary Equipment List ..... 10

**2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST ..... 11**

    2.1 Test Mode ..... 11

    2.2 Connection Diagram of Test System ..... 15

**3 TEST RESULT ..... 16**

    3.1 Conducted Output Power Measurement ..... 16

    3.2 Peak-to-Average Ratio ..... 45

    3.3 99% Occupied Bandwidth and 26dB Bandwidth Measurement ..... 65

    3.4 Band Edge Measurement ..... 104

    3.5 Conducted Spurious Emission Measurement ..... 177

    3.6 Field Strength of Spurious Radiation Measurement ..... 286

    3.7 Frequency Stability Measurement ..... 324

**4 LIST OF MEASURING EQUIPMENTS ..... 340**

**5 UNCERTAINTY OF EVALUATION ..... 341**

**APPENDIX A. PHOTOGRAPHS OF EUT**

**APPENDIX B. SETUP PHOTOGRAPHS**





## 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 <sub>10</sub> (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 <sub>10</sub> (P[Watts])	PASS	Under limit 7.55 dB at 1417.000 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 <sub>10</sub> (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	
<b>Equipment</b>	GSM/WCDMA/LTE CPE
<b>Brand Name</b>	ZTE
<b>Model Name</b>	Z700
<b>FCC ID</b>	Q78-Z700
<b>EUT supports Radios application</b>	GSM/WCDMA/HSPA/HSPA+(Downlink Only)/LTE/WLAN 11bgn
<b>HW Version</b>	dcmA
<b>SW Version</b>	Z700V1.0.1
<b>EUT Stage</b>	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	
<b>Tx Frequency</b>	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
<b>Rx Frequency</b>	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz
<b>Bandwidth</b>	1.4MHz / 3MHz / 5MHz/ 10MHz / 15MHz / 20MHz (Band 2 and Band 4) 1.4MHz / 3MHz / 5MHz/ 10MHz (Band 5) 5MHz / 10MHz (Band 17)
<b>Maximum Output Power to Antenna</b>	LTE Band 2 : 22.75 dBm LTE Band 4 : 22.93 dBm LTE Band 5 : 22.87 dBm LTE Band 17 : 22.51 dBm
<b>Antenna Type</b>	Monopole antenna
<b>Type of Modulation</b>	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	0.3177 W	0.006 ppm	1M10G7D
Part 24E	LTE Band 2	16QAM	1.4MHz	0.2506 W	0.006 ppm	1M10D7W
Part 24E	LTE Band 2	QPSK	3MHz	0.3251 W	0.006 ppm	2M74G7D
Part 24E	LTE Band 2	16QAM	3MHz	0.2547 W	0.007 ppm	2M74D7W
Part 24E	LTE Band 2	QPSK	5MHz	0.3148 W	0.004 ppm	4M50G7D
Part 24E	LTE Band 2	16QAM	5MHz	0.2529 W	0.004 ppm	4M52D7W
Part 24E	LTE Band 2	QPSK	10MHz	0.3206 W	0.003 ppm	9M12G7D
Part 24E	LTE Band 2	16QAM	10MHz	0.2529 W	0.004 ppm	9M08D7W
Part 24E	LTE Band 2	QPSK	15MHz	0.3184 W	0.005 ppm	13M6G7D
Part 24E	LTE Band 2	16QAM	15MHz	0.2588 W	0.007 ppm	13M5D7W
Part 24E	LTE Band 2	QPSK	20MHz	0.3428 W	0.007 ppm	17M9G7D
Part 24E	LTE Band 2	16QAM	20MHz	0.2667 W	0.005 ppm	18M0D7W
Part 27L	LTE Band 4	QPSK	1.4MHz	0.3412 W	0.007 ppm	1M10G7D
Part 27L	LTE Band 4	16QAM	1.4MHz	0.2716 W	0.007 ppm	1M10D7W
Part 27L	LTE Band 4	QPSK	3MHz	0.3266 W	0.006 ppm	2M74G7D
Part 27L	LTE Band 4	16QAM	3MHz	0.2576 W	0.007 ppm	2M74D7W
Part 27L	LTE Band 4	QPSK	5MHz	0.3273 W	0.007 ppm	4M50G7D
Part 27L	LTE Band 4	16QAM	5MHz	0.2951 W	0.007 ppm	4M52D7W
Part 27L	LTE Band 4	QPSK	10MHz	0.3350 W	0.007 ppm	9M12G7D
Part 27L	LTE Band 4	16QAM	10MHz	0.2642 W	0.006 ppm	9M08D7W
Part 27L	LTE Band 4	QPSK	15MHz	0.3381 W	0.006 ppm	13M5G7D
Part 27L	LTE Band 4	16QAM	15MHz	0.2704 W	0.007 ppm	13M5D7W
Part 27L	LTE Band 4	QPSK	20MHz	0.3334 W	0.006 ppm	17M9G7D
Part 27L	LTE Band 4	16QAM	20MHz	0.2877 W	0.006 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	0.1294 W	0.300 ppm	1M10G7D
Part 22H	LTE Band 5	16QAM	1.4MHz	0.1064 W	0.005 ppm	1M10D7W
Part 22H	LTE Band 5	QPSK	3MHz	0.1309 W	0.007 ppm	2M72G7D
Part 22H	LTE Band 5	16QAM	3MHz	0.1047 W	0.004 ppm	2M74D7W
Part 22H	LTE Band 5	QPSK	5MHz	0.1324 W	0.012 ppm	4M50G7D
Part 22H	LTE Band 5	16QAM	5MHz	0.1035 W	0.005 ppm	4M50D7W
Part 22H	LTE Band 5	QPSK	10MHz	0.1355 W	0.007 ppm	9M08G7D
Part 22H	LTE Band 5	16QAM	10MHz	0.1072 W	0.005 ppm	9M04D7W
Part 27H	LTE Band 17	QPSK	5MHz	0.1247 W	0.004 ppm	4M50G7D
Part 27H	LTE Band 17	16QAM	5MHz	0.1012 W	0.006 ppm	4M50D7W
Part 27H	LTE Band 17	QPSK	10MHz	0.1199 W	0.003 ppm	9M16G7D
Part 27H	LTE Band 17	16QAM	10MHz	0.0991 W	0.004 ppm	9M12D7W



### 1.5 Testing Site

<b>Test Site</b>	SPORTON INTERNATIONAL INC.	
<b>Test Site Location</b>	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC/IC Registration No.</b>
	03CH07-HY	TW1022/4086B-1

<b>Test Site</b>	SPORTON INTERNATIONAL (KUNSHAN) INC.	
<b>Test Site Location</b>	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC/IC Registration No.</b>
	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.	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, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 19100 MHz for LTE Band 2.
2. 30 MHz to 19000 MHz for LTE Band 4.
3. 30 MHz to 9000 MHz LTE Band 5.
4. 30 MHz to 9000 MHz LTE Band 17.

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



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



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

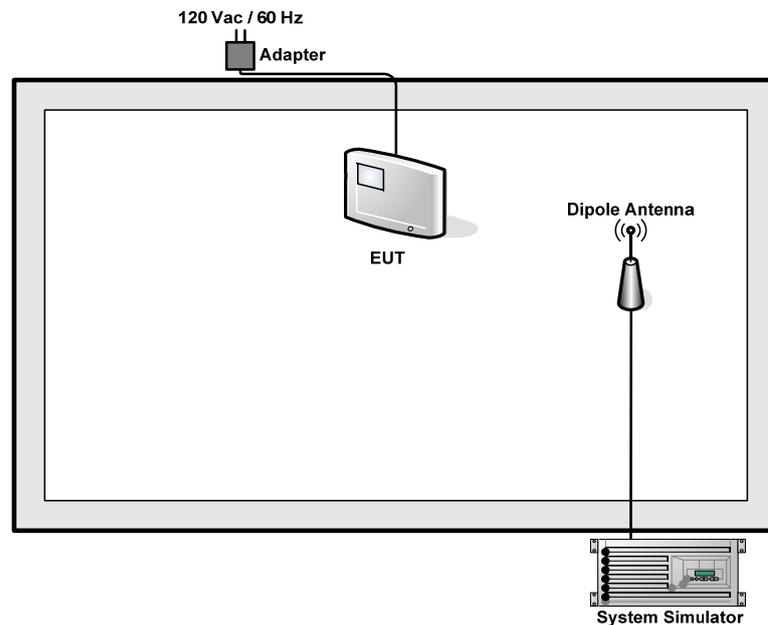


LTE Band 4	BW 20MHz	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) QPSK Link</li> </ul>	<ul style="list-style-type: none"> <li>■ LTE (RB Size 1, RB Offset 0) Link</li> <li>■ LTE (RB Size 1, RB Offset 49) Link</li> <li>■ LTE (RB Size 1, RB Offset 99) Link</li> <li>■ LTE (RB Size 50, RB Offset 0) Link</li> <li>■ LTE (RB Size 50, RB Offset 24) Link</li> <li>■ LTE (RB Size 50, RB Offset 49) Link</li> <li>■ LTE (RB Size 100, RB Offset 0) Link</li> </ul>
---------------	-------------	--	--

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

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

## 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.

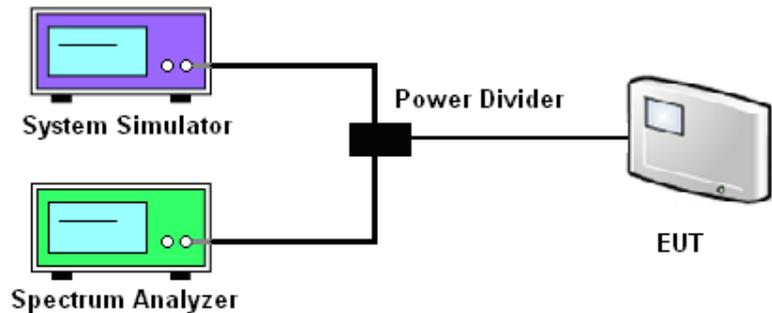
###### For Effective Radiated Power and Effective Isotropic Radiated Power Measurement:

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.

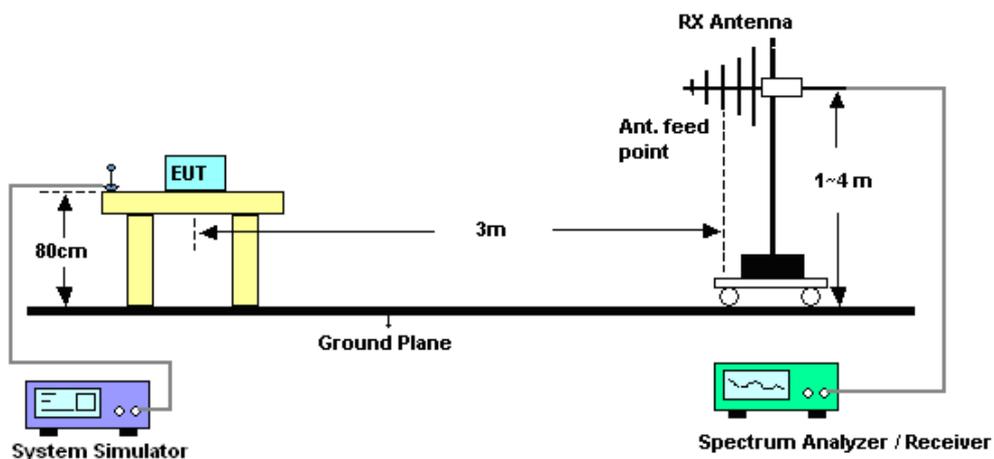
2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor,  $EIRP = LVL + \text{Correction factor}$  and  $ERP = EIRP - 2.15$ .

### 3.1.4 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	22.40	0.1738	
					1	2	22.35	0.1718	
					1	5	22.27	0.1687	
					3	0	22.14	0.1637	
					3	1	22.21	0.1663	
					3	2	22.18	0.1652	
		16-QAM	6	0	21.36	0.1368			
			1	0	21.36	0.1368			
			1	2	21.33	0.1358			
			1	5	21.28	0.1343			
			3	0	21.21	0.1321			
			3	1	21.17	0.1309			
		18900	1880.0	QPSK	QPSK	3	2	21.14	0.1300
						6	0	20.56	0.1138
						1	0	22.42	0.1746
	1					2	22.40	0.1738	
	1					5	22.37	0.1726	
	3					0	22.35	0.1718	
	3					1	22.30	0.1698	
	3					2	22.25	0.1679	
	6					0	21.43	0.1390	
	16-QAM	1	0	21.39	0.1377				
		1	2	21.34	0.1361				
		1	5	21.26	0.1337				
		3	0	21.23	0.1327				
		3	1	21.18	0.1312				
		3	2	21.14	0.1300				
	19193	1909.3	QPSK	QPSK	6	0	20.55	0.1135	
					1	0	22.26	0.1683	
					1	2	22.19	0.1656	
1					5	22.10	0.1622		
3					0	22.06	0.1607		
3					1	21.95	0.1567		
16-QAM			3	2	21.87	0.1538			
			6	0	20.95	0.1245			
			1	0	21.30	0.1349			
			1	2	21.22	0.1324			
			1	5	21.06	0.1276			
			3	0	21.12	0.1294			
			3	1	21.07	0.1279			
			3	2	21.03	0.1268			
			6	0	20.16	0.1038			



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	22.40	0.1738
					1	7	22.37	0.1726
					1	14	22.31	0.1702
					8	0	21.39	0.1377
					8	4	21.45	0.1396
					8	7	21.38	0.1374
					15	0	21.39	0.1377
				16-QAM	1	0	21.46	0.1400
					1	7	21.35	0.1365
					1	14	21.29	0.1346
					8	0	20.34	0.1081
					8	4	20.29	0.1069
					8	7	20.23	0.1054
					15	0	20.31	0.1074
		18900	1880.0	QPSK	1	0	22.52	0.1786
					1	7	22.49	0.1774
					1	14	22.42	0.1746
					8	0	21.44	0.1393
					8	4	21.37	0.1371
					8	7	21.32	0.1355
					15	0	21.41	0.1384
				16-QAM	1	0	21.43	0.1390
					1	7	21.36	0.1368
					1	14	21.21	0.1321
					8	0	20.28	0.1067
					8	4	20.25	0.1059
					8	7	20.18	0.1042
					15	0	20.23	0.1054
		19185	1908.5	QPSK	1	0	22.41	0.1742
					1	7	22.35	0.1718
1	14				22.13	0.1633		
8	0				21.16	0.1306		
8	4				21.04	0.1271		
8	7				20.95	0.1245		
15	0				21.09	0.1285		
16-QAM	1			0	21.45	0.1396		
	1			7	21.37	0.1371		
	1			14	21.26	0.1337		
	8			0	20.28	0.1067		
	8			4	20.14	0.1033		
	8			7	19.98	0.0995		
	15			0	20.05	0.1012		



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	22.38	0.1730
					1	12	22.32	0.1706
					1	24	22.26	0.1683
					12	0	21.83	0.1524
					12	6	21.74	0.1493
					12	11	21.85	0.1531
					25	0	21.36	0.1368
		16-QAM	1	0	21.33	0.1358		
			1	12	21.28	0.1343		
			1	24	21.23	0.1327		
			12	0	21.08	0.1282		
			12	6	21.03	0.1268		
			12	11	21.00	0.1259		
			25	0	20.87	0.1222		
	18900	1880.0	QPSK	1	0	22.33	0.1710	
				1	12	22.26	0.1683	
				1	24	22.23	0.1671	
				12	0	21.75	0.1496	
				12	6	21.76	0.1500	
				12	11	21.63	0.1455	
				25	0	21.77	0.1503	
		16-QAM	1	0	21.31	0.1352		
			1	12	21.27	0.1340		
			1	24	21.23	0.1327		
			12	0	20.46	0.1112		
			12	6	20.42	0.1102		
			12	11	20.35	0.1084		
25			0	20.13	0.1030			
19175	1907.5	QPSK	1	0	22.36	0.1722		
			1	12	22.32	0.1706		
			1	24	22.24	0.1675		
			12	0	21.87	0.1538		
			12	6	21.75	0.1496		
			12	11	21.93	0.1560		
			25	0	21.16	0.1306		
	16-QAM	1	0	21.43	0.1390			
		1	12	21.32	0.1355			
		1	24	21.26	0.1337			
		12	0	21.02	0.1265			
		12	6	21.01	0.1262			
		12	11	21.03	0.1268			
		25	0	20.21	0.1050			



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	22.41	0.1742
					1	24	22.36	0.1722
					1	49	22.33	0.1710
					25	0	21.45	0.1396
					25	12	21.32	0.1355
					25	24	21.25	0.1334
		16-QAM	50	0	21.23	0.1327		
			1	0	21.43	0.1390		
			1	24	21.39	0.1377		
			1	49	21.27	0.1340		
			25	0	20.26	0.1062		
			25	12	20.23	0.1054		
		QPSK	25	24	20.19	0.1045		
			50	0	20.15	0.1035		
			1	0	22.46	0.1762		
			1	24	22.43	0.1750		
			1	49	22.26	0.1683		
			25	0	21.51	0.1416		
	16-QAM	25	12	21.38	0.1374			
		25	24	21.26	0.1337			
		50	0	21.23	0.1327			
		1	0	21.41	0.1384			
		1	24	21.28	0.1343			
		1	49	21.13	0.1297			
	QPSK	25	0	20.45	0.1109			
		25	12	20.34	0.1081			
		25	24	20.22	0.1052			
		50	0	20.19	0.1045			
		1	0	22.46	0.1762			
		1	24	22.39	0.1734			
16-QAM	1	49	22.30	0.1698				
	25	0	21.17	0.1309				
	25	12	21.13	0.1297				
	25	24	21.07	0.1279				
	50	0	21.02	0.1265				
	QPSK	1	0	21.38	0.1374			
1		24	21.32	0.1355				
1		49	21.28	0.1343				
25		0	20.19	0.1045				
25		12	20.14	0.1033				
25		24	20.08	0.1019				
16-QAM	50	0	20.04	0.1009				



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	22.36	0.1722
					1	37	22.32	0.1706
					1	74	22.29	0.1694
					36	0	21.33	0.1358
					36	19	21.24	0.1330
					36	39	21.19	0.1315
		16-QAM	75	0	21.24	0.1330		
			1	0	21.53	0.1422		
			1	37	21.45	0.1396		
			1	74	21.37	0.1371		
			36	0	20.36	0.1086		
			36	19	20.26	0.1062		
		QPSK	36	39	20.20	0.1047		
			75	0	20.08	0.1019		
			1	0	22.43	0.1750		
			1	37	22.40	0.1738		
			1	74	22.31	0.1702		
			36	0	21.46	0.1400		
	16-QAM	36	19	21.28	0.1343			
		36	39	21.23	0.1327			
		75	0	21.21	0.1321			
		1	0	21.51	0.1416			
		1	37	21.47	0.1403			
		1	74	21.34	0.1361			
	QPSK	36	0	20.38	0.1091			
		36	19	20.33	0.1079			
		36	39	20.27	0.1064			
		75	0	20.18	0.1042			
		1	0	22.41	0.1742			
		1	37	22.33	0.1710			
16-QAM	1	74	21.99	0.1581				
	36	0	21.18	0.1312				
	36	19	21.11	0.1291				
	36	39	21.08	0.1282				
	75	0	21.03	0.1268				
	QPSK	1	0	21.36	0.1368			
1		37	21.28	0.1343				
1		74	21.16	0.1306				
36		0	20.19	0.1045				
36		19	20.08	0.1019				
36		39	20.01	0.1002				
16-QAM	75	0	20.07	0.1016				



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	22.52	0.1786
					1	49	22.45	0.1758
					1	99	22.38	0.1730
					50	0	21.24	0.1330
					50	24	21.16	0.1306
					50	49	21.12	0.1294
		100	0	21.25	0.1334			
		16-QAM	1	0	21.46	0.1400		
			1	49	21.43	0.1390		
			1	99	21.28	0.1343		
			50	0	20.22	0.1052		
			50	24	20.15	0.1035		
			50	49	20.19	0.1045		
		100	0	20.21	0.1050			
		18900	1880.0	QPSK	1	0	22.75	0.1884
					1	49	22.57	0.1807
					1	99	22.31	0.1702
					50	0	21.38	0.1374
	50				24	21.30	0.1349	
	50				49	21.28	0.1343	
	100	0	21.26	0.1337				
	16-QAM	1	0	21.66	0.1466			
		1	49	21.61	0.1449			
		1	99	21.26	0.1337			
		50	0	20.41	0.1099			
		50	24	20.29	0.1069			
		50	49	20.27	0.1064			
	100	0	20.26	0.1062				
	19100	1900.0	QPSK	1	0	22.32	0.1706	
				1	49	22.30	0.1698	
1				99	22.15	0.1641		
50				0	21.37	0.1371		
50				24	21.23	0.1327		
50				49	21.06	0.1276		
100	0	21.10	0.1288					
16-QAM	1	0	21.16	0.1306				
	1	49	21.14	0.1300				
	1	99	21.06	0.1276				
	50	0	19.93	0.0984				
	50	24	19.89	0.0975				
	50	49	19.90	0.0977				
100	0	20.03	0.1007					



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	22.81	0.1910
					1	2	22.85	0.1928
					1	5	22.93	0.1963
					3	0	22.78	0.1897
					3	1	22.81	0.1910
					3	2	22.83	0.1919
		16-QAM	6	0	21.64	0.1459		
			1	0	21.56	0.1432		
			1	2	21.53	0.1422		
			1	5	21.46	0.1400		
			3	0	21.84	0.1528		
			3	1	21.94	0.1563		
		20175	1732.5	QPSK	3	2	21.81	0.1517
					6	0	20.66	0.1164
					1	0	22.58	0.1811
	1				2	22.43	0.1750	
	1				5	22.56	0.1803	
	3				0	22.47	0.1766	
	3				1	22.40	0.1738	
	3				2	22.42	0.1746	
	6				0	21.38	0.1374	
	16-QAM	1	0	21.53	0.1422			
		1	2	21.45	0.1396			
		1	5	21.50	0.1413			
		3	0	21.42	0.1387			
		3	1	21.40	0.1380			
		3	2	21.39	0.1377			
	20393	1754.3	QPSK	6	0	20.38	0.1091	
				1	0	22.60	0.1820	
				1	2	22.75	0.1884	
1				5	22.60	0.1820		
3				0	22.68	0.1854		
3				1	22.45	0.1758		
16-QAM		3	2	22.47	0.1766			
		6	0	21.56	0.1432			
		1	0	21.66	0.1466			
		1	2	21.63	0.1455			
		1	5	21.68	0.1472			
		3	0	21.47	0.1403			
					3	1	21.45	0.1396
					3	2	21.44	0.1393
					6	0	20.54	0.1132



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	22.55	0.1799	
					1	7	22.41	0.1742	
					1	14	22.32	0.1706	
					8	0	21.34	0.1361	
					8	4	21.32	0.1355	
					8	7	21.22	0.1324	
				16-QAM	15	0	21.24	0.1330	
					1	0	21.38	0.1374	
					1	7	21.49	0.1409	
					1	14	21.37	0.1371	
					8	0	20.28	0.1067	
					8	4	20.40	0.1096	
		20175	1732.5	QPSK	1732.5	8	7	20.25	0.1059
						15	0	20.30	0.1072
						1	0	22.56	0.1803
						1	7	22.60	0.1820
						1	14	22.74	0.1879
						8	0	21.38	0.1374
				16-QAM	8	4	21.42	0.1387	
					8	7	21.50	0.1413	
					15	0	21.32	0.1355	
					1	0	21.57	0.1435	
					1	7	21.65	0.1462	
					1	14	21.71	0.1483	
		20385	1753.5	QPSK	1753.5	8	0	21.40	0.1380
						8	4	21.23	0.1327
						8	7	21.22	0.1324
						15	0	20.36	0.1086
						1	0	22.54	0.1795
						1	7	22.59	0.1816
16-QAM	1			14	22.54	0.1795			
	8			0	21.22	0.1324			
	8			4	21.26	0.1337			
	8			7	21.51	0.1416			
	15			0	21.18	0.1312			
	1			0	21.37	0.1371			
16-QAM	1	7	21.29	0.1346					
	1	14	21.34	0.1361					
	8	0	21.22	0.1324					
	8	4	21.14	0.1300					
	8	7	20.62	0.1153					
	15	0	20.25	0.1059					



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	22.75	0.1884
					1	12	22.33	0.1710
					1	24	22.32	0.1706
					12	0	21.37	0.1371
					12	6	21.25	0.1334
					12	11	21.27	0.1340
					25	0	21.26	0.1337
				16-QAM	1	0	22.30	0.1698
					1	12	21.28	0.1343
					1	24	21.68	0.1472
					12	0	20.34	0.1081
					12	6	20.31	0.1074
					12	11	20.38	0.1091
					25	0	20.31	0.1074
		20175	1732.5	QPSK	1	0	22.69	0.1858
					1	12	22.63	0.1832
					1	24	22.58	0.1811
					12	0	21.56	0.1432
					12	6	21.41	0.1384
					12	11	21.54	0.1426
					25	0	21.46	0.1400
				16-QAM	1	0	21.64	0.1459
					1	12	21.62	0.1452
					1	24	21.62	0.1452
					12	0	20.52	0.1127
					12	6	20.40	0.1096
					12	11	20.54	0.1132
					25	0	20.49	0.1119
		20375	1752.5	QPSK	1	0	22.55	0.1799
					1	12	22.41	0.1742
1	24				22.40	0.1738		
12	0				21.46	0.1400		
12	6				21.17	0.1309		
12	11				21.42	0.1387		
25	0				21.41	0.1384		
16-QAM	1			0	21.47	0.1403		
	1			12	21.44	0.1393		
	1			24	21.43	0.1390		
	12			0	20.55	0.1135		
	12			6	20.62	0.1153		
	12			11	20.54	0.1132		
	25			0	20.52	0.1127		



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	22.85	0.1928
					1	24	22.48	0.1770
					1	49	22.36	0.1722
					25	0	21.47	0.1403
					25	12	21.37	0.1371
					25	24	21.36	0.1368
		16-QAM	50	0	21.38	0.1374		
			1	0	21.35	0.1365		
			1	24	21.45	0.1396		
			1	49	21.41	0.1384		
			25	0	20.45	0.1109		
			25	12	20.37	0.1089		
		QPSK	25	24	20.38	0.1091		
			50	0	20.44	0.1107		
			1	0	22.73	0.1875		
			1	24	22.80	0.1905		
			1	49	22.78	0.1897		
			25	0	21.32	0.1355		
	16-QAM	25	12	21.50	0.1413			
		25	24	21.48	0.1406			
		50	0	21.33	0.1358			
		1	0	21.68	0.1472			
		1	24	21.82	0.1521			
		1	49	21.69	0.1476			
	QPSK	25	0	20.38	0.1091			
		25	12	20.37	0.1089			
		25	24	20.33	0.1079			
		50	0	20.30	0.1072			
		1	0	22.69	0.1858			
		1	24	22.50	0.1778			
16-QAM	1	49	22.75	0.1884				
	25	0	21.36	0.1368				
	25	12	21.27	0.1340				
	25	24	21.30	0.1349				
	50	0	21.36	0.1368				
	1	0	21.65	0.1462				
QPSK	1	24	21.59	0.1442				
	1	49	21.58	0.1439				
	25	0	20.36	0.1086				
	25	12	20.28	0.1067				
	25	24	20.29	0.1069				
	50	0	20.25	0.1059				



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	22.75	0.1884		
					1	37	22.64	0.1837		
					1	74	22.73	0.1875		
					38	0	21.29	0.1346		
					38	18	21.25	0.1334		
					38	37	21.25	0.1334		
				16-QAM	75	0	21.36	0.1368		
					1	0	21.66	0.1466		
					1	37	21.47	0.1403		
		20175	1732.5	QPSK	1	74	21.52	0.1419		
						38	0	20.25	0.1059	
						38	18	20.42	0.1102	
					16-QAM	38	37	20.26	0.1062	
						75	0	20.37	0.1089	
						1	0	22.69	0.1858	
				20325	1747.5	QPSK	1	37	22.79	0.1901
								74	22.87	0.1936
								38	0	21.41
	16-QAM	38	18				21.52	0.1419		
		38	37				21.46	0.1400		
		75	0				21.41	0.1384		
	16-QAM	1	0			21.60	0.1445			
						37	21.62	0.1452		
						74	21.65	0.1462		
			38	0	20.37	0.1089				
				18	20.43	0.1104				
				37	20.50	0.1122				
		75	0	20.40	0.1096					
				1	0	22.89	0.1945			
				1	37	22.63	0.1832			
16-QAM			1	74	22.54	0.1795				
			38	0	21.45	0.1396				
			38	18	21.40	0.1380				
16-QAM	38	37	21.41	0.1384						
			75	0	21.41	0.1384				
			1	0	21.92	0.1556				
	75	1	37	21.74	0.1493					
				74	21.62	0.1452				
				38	0	20.45	0.1109			
		38	18	20.43	0.1104					
				37	20.42	0.1102				
				75	0	20.40	0.1096			



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	22.76	0.1888	
					1	49	22.75	0.1884	
					1	99	22.69	0.1858	
					50	0	22.10	0.1622	
					50	24	22.05	0.1603	
					50	49	22.00	0.1585	
				16-QAM	100	0	21.98	0.1578	
					1	0	22.19	0.1656	
					1	49	21.93	0.1560	
					1	99	21.70	0.1479	
					50	0	20.56	0.1138	
					50	24	20.53	0.1130	
		20175	1732.5	QPSK	1732.5	50	49	20.50	0.1122
						100	0	20.52	0.1127
						1	0	22.51	0.1782
						1	49	22.64	0.1837
						1	99	22.72	0.1871
						50	0	21.27	0.1340
				16-QAM	50	24	21.28	0.1343	
					50	49	21.40	0.1380	
					100	0	21.31	0.1352	
					1	0	21.54	0.1426	
					1	49	21.45	0.1396	
					1	99	21.51	0.1416	
		20300	1745.0	QPSK	1745.0	50	0	20.25	0.1059
						50	24	20.22	0.1052
						50	49	20.31	0.1074
						100	0	20.30	0.1072
						1	0	22.83	0.1919
						1	49	22.54	0.1795
16-QAM	1			99	22.45	0.1758			
	50			0	21.45	0.1396			
	50			24	22.33	0.1710			
	50			49	22.30	0.1698			
	100			0	21.37	0.1371			
	1			0	22.06	0.1607			
16-QAM	1	49	21.68	0.1472					
	1	99	21.75	0.1496					
	50	0	20.43	0.1104					
	50	24	20.40	0.1096					
	50	49	20.39	0.1094					
	100	0	20.36	0.1086					



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	22.66	0.1845
					1	2	22.63	0.1832
					1	5	22.29	0.1694
					3	0	22.63	0.1832
					3	1	22.65	0.1841
					3	2	22.64	0.1837
		16-QAM	6	0	21.57	0.1435		
			1	0	21.64	0.1459		
			1	2	21.72	0.1486		
			1	5	21.82	0.1521		
			3	0	21.52	0.1419		
			3	1	21.63	0.1455		
		20525	836.5	QPSK	3	2	21.53	0.1422
					6	0	20.66	0.1164
					1	0	22.67	0.1849
					1	2	22.63	0.1832
					1	5	22.59	0.1816
					3	0	22.54	0.1795
	16-QAM	3	1	22.50	0.1778			
		3	2	22.43	0.1750			
		6	0	21.91	0.1552			
		1	0	21.62	0.1452			
		1	2	21.56	0.1432			
		1	5	21.49	0.1409			
	20643	848.3	QPSK	3	0	21.50	0.1413	
				3	1	21.45	0.1396	
				3	2	21.32	0.1355	
				6	0	20.89	0.1227	
				1	0	22.53	0.1791	
				1	2	22.46	0.1762	
16-QAM	1	5	22.41	0.1742				
	3	0	22.39	0.1734				
	3	1	22.34	0.1714				
	3	2	22.28	0.1690				
	6	0	21.89	0.1545				
	1	0	21.61	0.1449				
					1	2	21.56	0.1432
					1	5	21.52	0.1419
					3	0	21.43	0.1390
					3	1	21.36	0.1368
					3	2	21.24	0.1330
					6	0	20.84	0.1213



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	22.51	0.1782
					1	7	22.50	0.1778
					1	14	22.53	0.1791
					8	0	21.42	0.1387
					8	4	21.45	0.1396
					8	7	21.42	0.1387
					15	0	21.45	0.1396
		16-QAM	1	0	21.52	0.1419		
			1	7	21.74	0.1493		
			1	14	21.73	0.1489		
			8	0	20.42	0.1102		
			8	4	20.44	0.1107		
			8	7	20.51	0.1125		
			15	0	20.48	0.1117		
		20525	836.5	QPSK	1	0	22.72	0.1871
	1				7	22.65	0.1841	
	1				14	22.58	0.1811	
	8				0	21.68	0.1472	
	8				4	21.61	0.1449	
	8				7	21.53	0.1422	
	15				0	21.65	0.1462	
	16-QAM		1	0	21.75	0.1496		
			1	7	21.59	0.1442		
			1	14	21.50	0.1413		
			8	0	20.89	0.1227		
			8	4	20.78	0.1197		
			8	7	20.73	0.1183		
			15	0	20.75	0.1189		
	20635		847.5	QPSK	1	0	22.56	0.1803
		1			7	22.53	0.1791	
1		14			22.46	0.1762		
8		0			21.57	0.1435		
8		4			21.53	0.1422		
8		7			21.48	0.1406		
15		0			21.61	0.1449		
16-QAM		1	0	21.47	0.1403			
		1	7	21.42	0.1387			
		1	14	21.36	0.1368			
		8	0	20.54	0.1132			
		8	4	20.47	0.1114			
		8	7	20.41	0.1099			
		15	0	20.58	0.1143			



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	22.47	0.1766
					1	12	22.51	0.1782
					1	24	22.52	0.1786
					12	0	21.58	0.1439
					12	6	21.49	0.1409
					12	11	21.57	0.1435
					25	0	21.28	0.1343
		16-QAM	1	0	21.47	0.1403		
			1	12	21.16	0.1306		
			1	24	21.56	0.1432		
			12	0	20.58	0.1143		
			12	6	20.60	0.1148		
			12	11	20.63	0.1156		
			25	0	20.35	0.1084		
		20525	836.5	QPSK	1	0	22.77	0.1892
	1				12	22.72	0.1871	
	1				24	22.63	0.1832	
	12				0	21.68	0.1472	
	12				6	21.63	0.1455	
	12				11	21.59	0.1442	
	25				0	21.60	0.1445	
	16-QAM		1	0	21.70	0.1479		
			1	12	21.63	0.1455		
			1	24	21.58	0.1439		
			12	0	20.61	0.1151		
			12	6	20.56	0.1138		
			12	11	20.48	0.1117		
			25	0	20.52	0.1127		
	20625		846.5	QPSK	1	0	22.62	0.1828
		1			12	22.55	0.1799	
1		24			22.49	0.1774		
12		0			21.46	0.1400		
12		6			21.42	0.1387		
12		11			21.37	0.1371		
25		0			21.26	0.1337		
16-QAM		1	0	21.69	0.1476			
		1	12	21.62	0.1452			
		1	24	21.57	0.1435			
		12	0	20.54	0.1132			
		12	6	20.46	0.1112			
		12	11	20.41	0.1099			
		25	0	20.34	0.1081			



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	22.71	0.1866
					1	24	22.79	0.1901
					1	49	22.87	0.1936
					25	0	21.46	0.1400
					25	12	21.54	0.1426
					25	24	21.61	0.1449
		16-QAM	50	0	21.52	0.1419		
			1	0	21.80	0.1514		
			1	24	21.85	0.1531		
			1	49	21.73	0.1489		
			25	0	20.40	0.1096		
			25	12	20.50	0.1122		
		QPSK	25	24	20.57	0.1140		
			50	0	20.54	0.1132		
			1	0	22.82	0.1914		
			1	24	22.76	0.1888		
			1	49	22.68	0.1854		
			25	0	21.70	0.1479		
	16-QAM	25	12	21.63	0.1455			
		25	24	21.55	0.1429			
		50	0	21.60	0.1445			
		1	0	21.75	0.1496			
		1	24	21.67	0.1469			
		1	49	21.62	0.1452			
	QPSK	25	0	20.57	0.1140			
		25	12	20.53	0.1130			
		25	24	20.49	0.1119			
		50	0	20.56	0.1138			
		1	0	22.70	0.1862			
		1	24	22.63	0.1832			
16-QAM	1	49	22.57	0.1807				
	25	0	21.51	0.1416				
	25	12	21.44	0.1393				
	25	24	21.39	0.1377				
	50	0	21.32	0.1355				
	1	0	21.75	0.1496				
QPSK	1	24	21.63	0.1455				
	1	49	21.59	0.1442				
	25	0	20.61	0.1151				
	25	12	20.45	0.1109				
	25	24	20.36	0.1086				
	50	0	20.29	0.1069				



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	21.73	0.1489		
					1	12	21.85	0.1531		
					1	24	21.65	0.1462		
					12	0	20.77	0.1194		
					12	6	20.85	0.1216		
					12	11	21.10	0.1288		
				16-QAM	25	0	20.83	0.1211		
					1	0	20.89	0.1227		
					1	12	21.06	0.1276		
		23790	710.0	QPSK	QPSK	1	24	21.37	0.1371	
						12	0	19.80	0.0955	
						12	6	19.87	0.0971	
						12	11	20.13	0.1030	
						25	0	19.91	0.0979	
						1	0	22.35	0.1718	
				16-QAM	16-QAM	1	12	22.45	0.1758	
						1	24	22.51	0.1782	
						12	0	21.60	0.1445	
	23825	713.5	QPSK	QPSK	12	6	21.54	0.1426		
					12	11	21.67	0.1469		
					25	0	21.48	0.1406		
					16-QAM	16-QAM	1	0	21.27	0.1340
							1	12	21.35	0.1365
							1	24	21.49	0.1409
			QPSK	QPSK	12	0	20.60	0.1148		
					12	6	20.55	0.1135		
					12	11	20.57	0.1140		
	25	0			20.38	0.1091				
	16-QAM	16-QAM			1	0	22.26	0.1683		
					1	12	22.06	0.1607		
					1	24	22.14	0.1637		
	16-QAM	16-QAM			12	0	21.35	0.1365		
					12	6	21.01	0.1262		
			12	11	20.88	0.1225				
			25	0	20.90	0.1230				
			1	0	21.51	0.1416				
1			12	21.16	0.1306					
1			24	21.24	0.1330					
12			0	20.47	0.1114					
12			6	20.18	0.1042					
12	11	19.98	0.0995							
25	0	19.90	0.0977							



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	22.31	0.1702	
					1	24	22.34	0.1714	
					1	49	22.32	0.1706	
					25	0	20.88	0.1225	
					25	12	20.88	0.1225	
					25	24	21.37	0.1371	
		16-QAM	50	0	20.98	0.1253			
			1	0	21.07	0.1279			
			1	24	21.60	0.1445			
			1	49	21.07	0.1279			
			25	0	19.92	0.0982			
			25	12	20.32	0.1076			
		QPSK	25	24	20.33	0.1079			
			50	0	20.02	0.1005			
			23790	710.0	QPSK	1	0	21.90	0.1549
						1	24	22.11	0.1626
						1	49	21.79	0.1510
						25	0	21.11	0.1291
	25	12				21.44	0.1393		
	25	24				21.14	0.1300		
	16-QAM	50	0	21.01	0.1262				
		1	0	21.19	0.1315				
		1	24	21.27	0.1340				
		1	49	21.02	0.1265				
		25	0	20.07	0.1016				
		25	12	20.37	0.1089				
	QPSK	25	24	20.17	0.1040				
		50	0	20.09	0.1021				
		23800	711.0	QPSK	1	0	21.79	0.1510	
					1	24	21.78	0.1507	
1					49	21.64	0.1459		
25					0	21.36	0.1368		
25	12				21.21	0.1321			
25	24				20.95	0.1245			
16-QAM	50	0	21.01	0.1262					
	1	0	21.01	0.1262					
	1	24	21.45	0.1396					
	1	49	21.25	0.1334					
	25	0	20.21	0.1050					
	25	12	20.28	0.1067					
25	24	19.93	0.0984						
50	0	20.03	0.1007						

3.1.6 Test Result of ERP/EIRP

LTE Band 2						
Modulation	QPSK ( $G_T - L_C = 2.6\text{dB}$ )			16QAM ( $G_T - L_C = 2.6\text{dB}$ )		
Bandwidth	1.4M(1RB-0)			1.4M(1RB-0)		
Channel	18607 (Low)	18900 (Mid)	19193 (High)	18607 (Low)	18900 (Mid)	19193 (High)
Frequency (MHz)	1850.7	1880	1909.3	1850.7	1880	1909.3
Conducted Power (dBm)	22.4	22.42	22.26	21.36	21.39	21.3
Conducted Power (Watts)	0.17	0.17	0.17	0.14	0.14	0.13
EIRP(dBm)	25.00	25.02	24.86	23.96	23.99	23.90
EIRP(Watts)	0.3162	0.3177	0.3062	0.2489	0.2506	0.2455

LTE Band 2						
Modulation	QPSK ( $G_T - L_C = 2.6\text{dB}$ )			16QAM ( $G_T - L_C = 2.6\text{dB}$ )		
Bandwidth	3M(1RB-0)			3M(1RB-0)		
Channel	18615 (Low)	18900 (Mid)	19185 (High)	18615 (Low)	18900 (Mid)	19185 (High)
Frequency (MHz)	1851.5	1880	1908.5	1851.5	1880	1908.5
Conducted Power (dBm)	22.4	22.52	22.41	21.46	21.43	21.45
Conducted Power (Watts)	0.17	0.18	0.17	0.14	0.14	0.14
EIRP(dBm)	25.00	25.12	25.01	24.06	24.03	24.05
EIRP(Watts)	0.3162	0.3251	0.3170	0.2547	0.2529	0.2541



LTE Band 2						
Modulation	QPSK ( $G_T - L_C = 2.6\text{dB}$ )			16QAM ( $G_T - L_C = 2.6\text{dB}$ )		
Bandwidth	5M(1RB-0)			5M(1RB-0)		
Channel	18625 (Low)	18900 (Mid)	19175 (High)	18625 (Low)	18900 (Mid)	19175 (High)
Frequency (MHz)	1852.5	1880	1907.5	1852.5	1880	1907.5
Conducted Power (dBm)	22.38	22.33	22.36	21.33	21.31	21.43
Conducted Power (Watts)	0.17	0.17	0.17	0.14	0.14	0.14
EIRP(dBm)	24.98	24.93	24.96	23.93	23.91	24.03
EIRP(Watts)	0.3148	0.3112	0.3133	0.2472	0.2460	0.2529

LTE Band 2						
Modulation	QPSK ( $G_T - L_C = 2.6\text{dB}$ )			16QAM ( $G_T - L_C = 2.6\text{dB}$ )		
Bandwidth	10M(1RB-0)			10M(1RB-0)		
Channel	18650 (Low)	18900 (Mid)	19150 (High)	18650 (Low)	18900 (Mid)	19150 (High)
Frequency (MHz)	1855	1880	1905	1855	1880	1905
Conducted Power (dBm)	22.41	22.46	22.46	21.43	21.41	21.38
Conducted Power (Watts)	0.17	0.18	0.18	0.14	0.14	0.14
EIRP(dBm)	25.01	25.06	25.06	24.03	24.01	23.98
EIRP(Watts)	0.3170	0.3206	0.3206	0.2529	0.2518	0.2500



LTE Band 2						
Modulation	QPSK ( $G_T - L_C = 2.6\text{dB}$ )			16QAM ( $G_T - L_C = 2.6\text{dB}$ )		
Bandwidth	15M(1RB-0)			15M(1RB-0)		
Channel	18675 (Low)	18900 (Mid)	19125 (High)	18675 (Low)	18900 (Mid)	19125 (High)
Frequency (MHz)	1857.5	1880	1902.5	1857.5	1880	1902.5
Conducted Power (dBm)	22.36	22.43	22.41	21.53	21.51	21.36
Conducted Power (Watts)	0.17	0.17	0.17	0.14	0.14	0.14
EIRP(dBm)	24.96	25.03	25.01	24.13	24.11	23.96
EIRP(Watts)	0.3133	0.3184	0.3170	0.2588	0.2576	0.2489

LTE Band 2						
Modulation	QPSK ( $G_T - L_C = 2.6\text{dB}$ )			16QAM ( $G_T - L_C = 2.6\text{dB}$ )		
Bandwidth	20M(1RB-0)			20M(1RB-0)		
Channel	18650 (Low)	18900 (Mid)	19100 (High)	18650 (Low)	18900 (Mid)	19100 (High)
Frequency (MHz)	1860	1880	1900	1860	1880	1900
Conducted Power (dBm)	22.52	22.75	22.32	21.46	21.66	21.16
Conducted Power (Watts)	0.18	0.19	0.17	0.14	0.15	0.13
EIRP(dBm)	25.12	25.35	24.92	24.06	24.26	23.76
EIRP(Watts)	0.3251	0.3428	0.3105	0.2547	0.2667	0.2377



LTE Band 4						
Modulation	QPSK ( $G_T - L_C = 2.4\text{dB}$ )			16QAM ( $G_T - L_C = 2.4\text{dB}$ )		
Bandwidth	1.4M(1RB-5)			1.4M(3RB-1)		
Channel	19957 (Low)	20175 (Mid)	20393 (High)	19957 (Low)	20175 (Mid)	20393 (High)
Frequency (MHz)	1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
Conducted Power (dBm)	22.93	22.58	22.75	21.94	21.53	21.68
Conducted Power (Watts)	0.20	0.18	0.19	0.16	0.14	0.15
EIRP(dBm)	25.33	24.98	25.15	24.34	23.93	24.08
EIRP(Watts)	0.3412	0.3148	0.3273	0.2716	0.2472	0.2559

LTE Band 4						
Modulation	QPSK ( $G_T - L_C = 2.4\text{dB}$ )			16QAM ( $G_T - L_C = 2.4\text{dB}$ )		
Bandwidth	3M(1RB-14)			3M(1RB-14)		
Channel	19965 (Low)	20175 (Mid)	20385 (High)	19965 (Low)	20175 (Mid)	20385 (High)
Frequency (MHz)	1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
Conducted Power (dBm)	22.55	22.74	22.59	21.49	21.71	21.37
Conducted Power (Watts)	0.18	0.19	0.18	0.14	0.15	0.14
EIRP(dBm)	24.95	25.14	24.99	23.89	24.11	23.77
EIRP(Watts)	0.3126	0.3266	0.3155	0.2449	0.2576	0.2382



LTE Band 4						
Modulation	QPSK ( $G_T - L_C = 2.4\text{dB}$ )			16QAM ( $G_T - L_C = 2.4\text{dB}$ )		
Bandwidth	5M(1RB-0)			5M(1RB-0)		
Channel	19975 (Low)	20175 (Mid)	20375 (High)	19975 (Low)	20175 (Mid)	20375 (High)
Frequency (MHz)	1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	22.75	22.69	22.55	22.3	21.64	21.47
Conducted Power (Watts)	0.19	0.19	0.18	0.17	0.15	0.14
EIRP(dBm)	25.15	25.09	24.95	24.70	24.04	23.87
EIRP(Watts)	0.3273	0.3228	0.3126	0.2951	0.2535	0.2438

LTE Band 4						
Modulation	QPSK ( $G_T - L_C = 2.4\text{dB}$ )			16QAM ( $G_T - L_C = 2.4\text{dB}$ )		
Bandwidth	10M(1RB-0)			10M(1RB-24)		
Channel	20000 (Low)	20175 (Mid)	20350 (High)	20000 (Low)	20175 (Mid)	20350 (High)
Frequency (MHz)	1715	1732.5	1750	1715	1732.5	1750
Conducted Power (dBm)	22.85	22.8	22.69	21.45	21.82	21.65
Conducted Power (Watts)	0.19	0.19	0.19	0.14	0.15	0.15
EIRP(dBm)	25.25	25.2	25.09	23.85	24.22	24.05
EIRP(Watts)	0.3350	0.3311	0.3228	0.2427	0.2642	0.2541



LTE Band 4						
Modulation	QPSK ( $G_T - L_C = 2.4\text{dB}$ )			16QAM ( $G_T - L_C = 2.4\text{dB}$ )		
Bandwidth	15M(1RB-0)			15M(1RB-0)		
Channel	20025 (Low)	20175 (Mid)	20325 (High)	20025 (Low)	20175 (Mid)	20325 (High)
Frequency (MHz)	1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
Conducted Power (dBm)	22.75	22.87	22.89	21.66	21.65	21.92
Conducted Power (Watts)	0.19	0.19	0.19	0.15	0.15	0.16
EIRP(dBm)	25.15	25.27	25.29	24.06	24.05	24.32
EIRP(Watts)	0.3273	0.3365	0.3381	0.2547	0.2541	0.2704

LTE Band 4						
Modulation	QPSK ( $G_T - L_C = 2.4\text{dB}$ )			16QAM ( $G_T - L_C = 2.4\text{dB}$ )		
Bandwidth	20M(1RB-0)			20M(1RB-0)		
Channel	20050 (Low)	20175 (Mid)	20300 (High)	20050 (Low)	20175 (Mid)	20300 (High)
Frequency (MHz)	1720	1732.5	1745	1720	1732.5	1745
Conducted Power (dBm)	22.76	22.72	22.83	22.19	21.54	22.06
Conducted Power (Watts)	0.19	0.19	0.19	0.17	0.14	0.16
EIRP(dBm)	25.16	25.12	25.23	24.59	23.94	24.46
EIRP(Watts)	0.3281	0.3251	0.3334	0.2877	0.2477	0.2793



LTE Band 5						
Modulation	QPSK ( $G_T - L_C = 0.6\text{dB}$ )			16QAM ( $G_T - L_C = 0.6\text{dB}$ )		
Bandwidth	1.4M(1RB-0)			1.4M(1RB-5)		
Channel	20407 (Low)	20525 (Mid)	20643 (High)	20407 (Low)	20525 (Mid)	20643 (High)
Frequency (MHz)	824.7	836.5	848.3	824.7	836.5	848.3
Conducted Power (dBm)	22.66	22.67	22.53	21.82	21.62	21.61
Conducted Power (Watts)	0.18	0.18	0.18	0.15	0.15	0.14
ERP(dBm)	21.11	21.12	20.98	20.27	20.07	20.06
ERP(Watts)	0.1291	0.1294	0.1253	0.1064	0.1016	0.1014

LTE Band 5						
Modulation	QPSK ( $G_T - L_C = 0.6\text{dB}$ )			16QAM ( $G_T - L_C = 0.6\text{dB}$ )		
Bandwidth	3M(1RB-0)			3M(1RB-0)		
Channel	20415 (Low)	20525 (Mid)	20635 (High)	20415 (Low)	20525 (Mid)	20635 (High)
Frequency (MHz)	825.5	836.5	847.5	825.5	836.5	847.5
Conducted Power (dBm)	22.53	22.72	22.56	21.74	21.75	21.47
Conducted Power (Watts)	0.18	0.19	0.18	0.15	0.15	0.14
ERP(dBm)	20.98	21.17	21.01	20.19	20.20	19.92
ERP(Watts)	0.1253	0.1309	0.1262	0.1045	0.1047	0.0982



LTE Band 5						
Modulation	QPSK ( $G_T - L_C = 0.6\text{dB}$ )			16QAM ( $G_T - L_C = 0.6\text{dB}$ )		
Bandwidth	5M(1RB-0)			5M(1RB-0)		
Channel	20425 (Low)	20525 (Mid)	20625 (High)	20425 (Low)	20525 (Mid)	20625 (High)
Frequency (MHz)	826.5	836.5	846.5	826.5	836.5	846.5
Conducted Power (dBm)	22.52	22.77	22.62	21.47	21.7	21.69
Conducted Power (Watts)	0.18	0.19	0.18	0.14	0.15	0.15
ERP(dBm)	20.97	21.22	21.07	19.92	20.15	20.14
ERP(Watts)	0.1250	0.1324	0.1279	0.0982	0.1035	0.1033

LTE Band 5						
Modulation	QPSK ( $G_T - L_C = 0.6\text{dB}$ )			16QAM ( $G_T - L_C = 0.6\text{dB}$ )		
Bandwidth	10M(1RB-49)			10M(1RB-24)		
Channel	20450 (Low)	20525 (Mid)	20600 (High)	20450 (Low)	20525 (Mid)	20600 (High)
Frequency (MHz)	829	836.5	844	829	836.5	844
Conducted Power (dBm)	22.87	22.82	22.7	21.85	21.75	21.75
Conducted Power (Watts)	0.19	0.19	0.19	0.15	0.15	0.15
ERP(dBm)	21.32	21.27	21.15	20.3	20.2	20.2
ERP(Watts)	0.1355	0.1340	0.1303	0.1072	0.1047	0.1047



LTE Band 17						
Modulation	QPSK ( $G_T - L_C = 0.6\text{dB}$ )			16QAM ( $G_T - L_C = 0.6\text{dB}$ )		
Bandwidth	5M(1RB-24)			5M(1RB-0)		
Channel	23755 (Low)	23790 (Mid)	23825 (High)	23755 (Low)	23790 (Mid)	23825 (High)
Frequency (MHz)	706.5	710	713.5	706.5	710	713.5
Conducted Power (dBm)	21.85	22.51	21.79	21.37	21.27	21.45
Conducted Power (Watts)	0.15	0.18	0.15	0.14	0.13	0.14
ERP(dBm)	20.30	20.96	20.24	19.82	19.72	19.90
ERP(Watts)	0.1072	0.1247	0.1057	0.0959	0.0938	0.0977

LTE Band 17						
Modulation	QPSK ( $G_T - L_C = 0.6\text{dB}$ )			16QAM ( $G_T - L_C = 0.6\text{dB}$ )		
Bandwidth	10M(1RB-24)			10M(1RB-24)		
Channel	23780 (Low)	23790 (Mid)	23800 (High)	23780 (Low)	23790 (Mid)	23800 (High)
Frequency (MHz)	709	710	711	709	710	711
Conducted Power (dBm)	22.34	22.11	22.26	21.6	21.49	21.51
Conducted Power (Watts)	0.17	0.16	0.17	0.14	0.14	0.14
ERP(dBm)	20.79	20.56	20.71	20.05	19.94	19.96
ERP(Watts)	0.1199	0.1138	0.1178	0.1012	0.0986	0.0991

**Note:**

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

## 3.2 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.

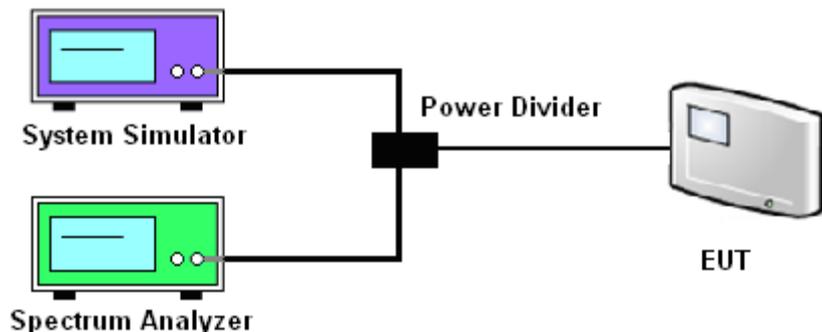
### 3.2.2 Measuring Instruments

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

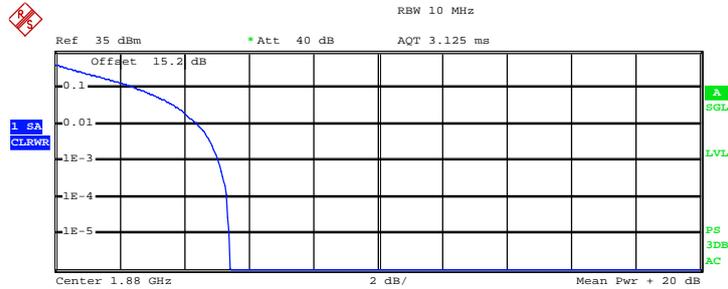
Band	Band Width	Channel	Frequency (MHz)	Modulation	PAR (dB)
LTE Band 2	1.4MHz	18900	1880	QPSK	5.08
				16-QAM	6.00
	3MHz	18900	1880	QPSK	5.08
				16-QAM	6.08
	5MHz	18900	1880	QPSK	5.32
				16-QAM	6.08
	10MHz	18900	1880	QPSK	5.40
				16-QAM	6.28
	15MHz	18900	1880	QPSK	5.76
				16-QAM	6.80
	20MHz	18900	1880	QPSK	6.48
				16-QAM	7.20
LTE Band 4	1.4MHz	20175	1732.5	QPSK	4.68
				16-QAM	5.40
	3MHz	20175	1732.5	QPSK	4.56
				16-QAM	5.64
	5MHz	20175	1732.5	QPSK	4.84
				16-QAM	5.68
	10MHz	20175	1732.5	QPSK	5.24
				16-QAM	6.00
	15MHz	20175	1732.5	QPSK	5.60
				16-QAM	6.60
	20MHz	20175	1732.5	QPSK	6.40
				16-QAM	6.96
LTE Band 5	1.4MHz	20525	836.5	QPSK	6.16
				16-QAM	6.88
	3MHz	20525	836.5	QPSK	5.96
				16-QAM	6.92
	5MHz	20525	836.5	QPSK	5.88
				16-QAM	6.68
	10MHz	20525	836.5	QPSK	5.40
				16-QAM	6.36
LTE Band 17	5MHz	23790	710.0	QPSK	6.04
				16-QAM	6.60
	10MHz	23790	710.0	QPSK	5.52
				16-QAM	6.52



### 3.2.6 Peak to Average Power Ratio

<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	1.4MHz
--------------	------------	-------------------	--------

#### Peak-to-Average Ratio for QPSK-RB Size 6, RB Offset 0



Complementary Cumulative Distribution Function (100000 samples)

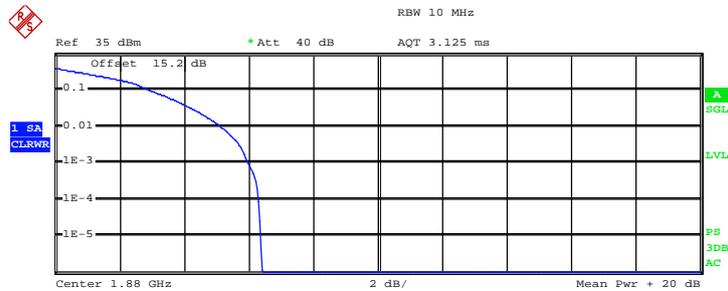
Trace 1

Mean 21.18 dBm  
 Peak 26.59 dBm  
 Crest 5.42 dB

10 % 2.56 dB  
 1 % 4.44 dB  
 .1 % 5.08 dB  
 .01 % 5.32 dB

Date: 17.JAN.2013 19:53:44

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.06 dBm  
 Peak 26.45 dBm  
 Crest 6.39 dB

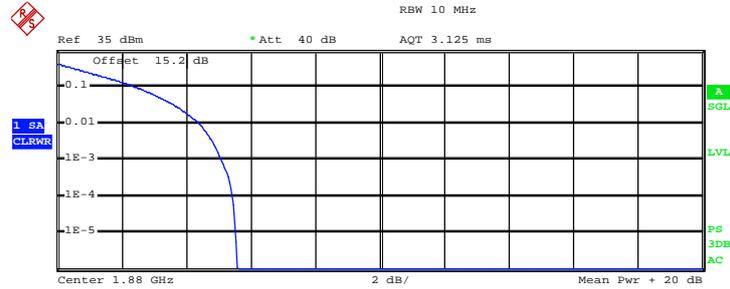
10 % 3.00 dB  
 1 % 5.16 dB  
 .1 % 6.00 dB  
 .01 % 6.32 dB

Date: 17.JAN.2013 19:53:36



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	3MHz
--------------	------------	-------------------	------

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



Complementary Cumulative Distribution Function (100000 samples)

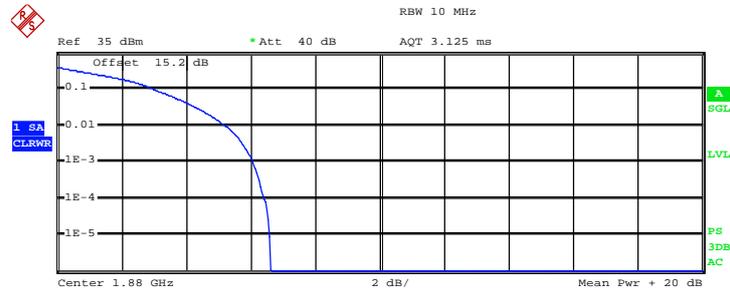
Trace 1

Mean 20.94 dBm  
 Peak 26.52 dBm  
 Crest 5.59 dB

10 % 2.52 dB  
 1 % 4.40 dB  
 .1 % 5.08 dB  
 .01 % 5.44 dB

Date: 17.JAN.2013 19:53:02

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.84 dBm  
 Peak 26.45 dBm  
 Crest 6.61 dB

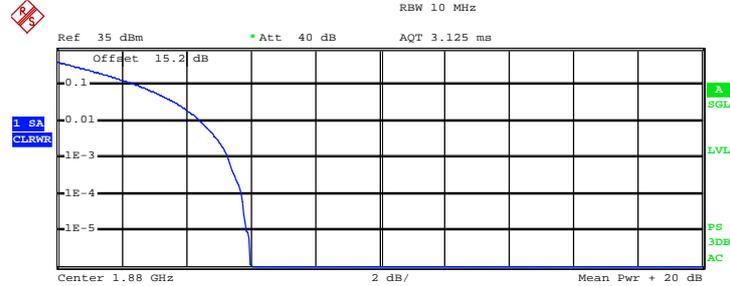
10 % 3.08 dB  
 1 % 5.24 dB  
 .1 % 6.08 dB  
 .01 % 6.44 dB

Date: 17.JAN.2013 19:53:20



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	5MHz
--------------	------------	-------------------	------

**Peak-to-Average Ratio for QPSK-RB Size 25, RB Offset 0**



Complementary Cumulative Distribution Function (100000 samples)

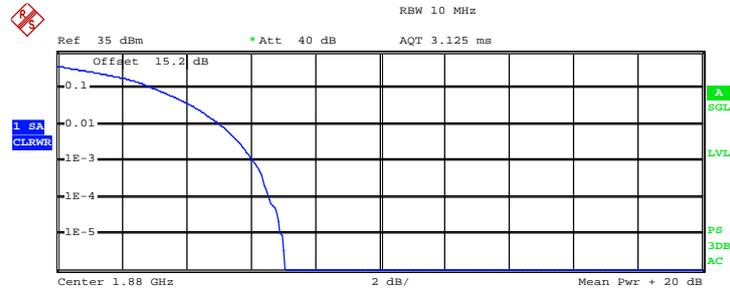
Trace 1

Mean 20.95 dBm  
 Peak 26.95 dBm  
 Crest 6.00 dB

10 % 2.52 dB  
 1 % 4.48 dB  
 .1 % 5.32 dB  
 .01 % 5.72 dB

Date: 17.JAN.2013 19:52:45

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.69 dBm  
 Peak 26.74 dBm  
 Crest 7.05 dB

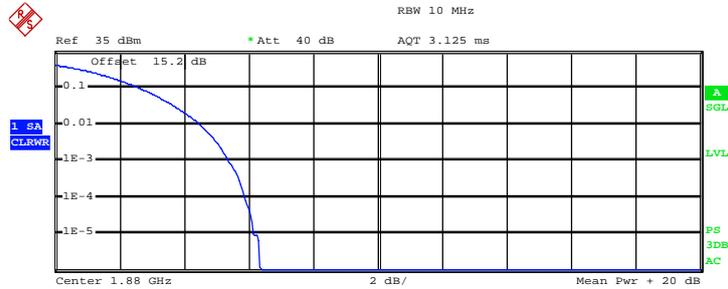
10 % 3.04 dB  
 1 % 5.08 dB  
 .1 % 6.08 dB  
 .01 % 6.56 dB

Date: 17.JAN.2013 19:52:08



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	10MHz
--------------	------------	-------------------	-------

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



Complementary Cumulative Distribution Function (100000 samples)

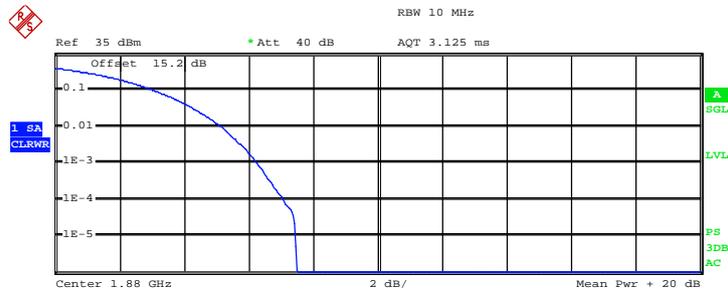
Trace 1

Mean 20.24 dBm  
 Peak 26.59 dBm  
 Crest 6.36 dB

10 % 2.68 dB  
 1 % 4.52 dB  
 .1 % 5.40 dB  
 .01 % 5.88 dB

Date: 17.JAN.2013 19:51:37

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.47 dBm  
 Peak 26.95 dBm  
 Crest 7.48 dB

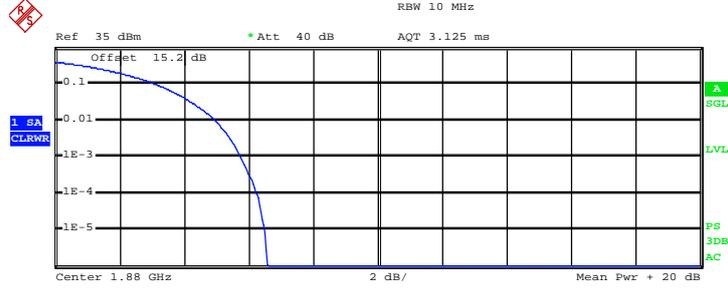
10 % 3.12 dB  
 1 % 5.16 dB  
 .1 % 6.28 dB  
 .01 % 7.08 dB

Date: 17.JAN.2013 19:51:48



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	15MHz
--------------	------------	-------------------	-------

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



Complementary Cumulative Distribution Function (100000 samples)

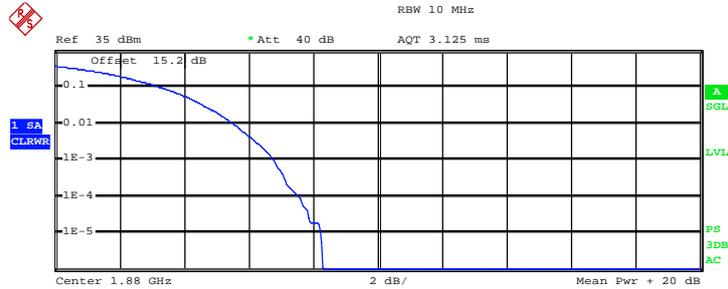
Trace 1

Mean 19.18 dBm  
 Peak 25.75 dBm  
 Crest 6.57 dB

10 % 3.20 dB  
 1 % 5.00 dB  
 .1 % 5.76 dB  
 .01 % 6.28 dB

Date: 17.JAN.2013 19:51:17

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 18.08 dBm  
 Peak 26.38 dBm  
 Crest 8.30 dB

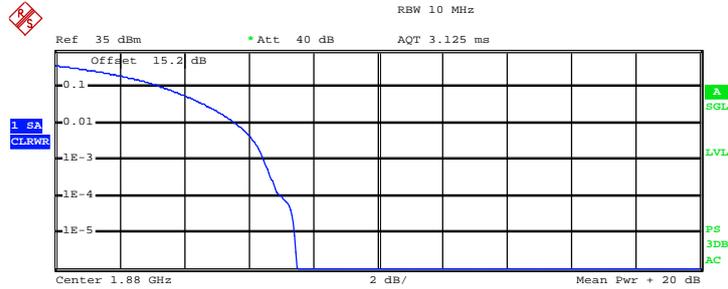
10 % 3.36 dB  
 1 % 5.56 dB  
 .1 % 6.80 dB  
 .01 % 7.56 dB

Date: 17.JAN.2013 19:51:04



<b>Band:</b>	LTE Band 2	<b>Bandwidth:</b>	20MHz
--------------	------------	-------------------	-------

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



Complementary Cumulative Distribution Function (100000 samples)

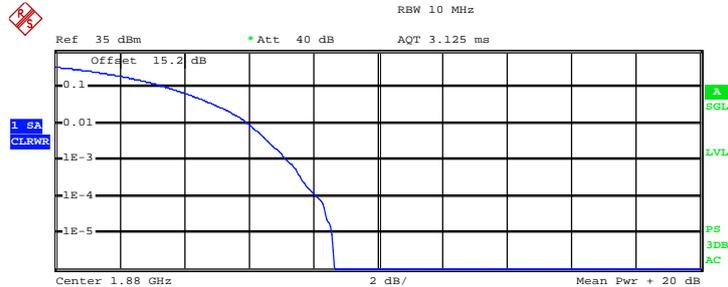
Trace 1

Mean 18.19 dBm  
 Peak 25.68 dBm  
 Crest 7.49 dB

10 % 3.40 dB  
 1 % 5.64 dB  
 .1 % 6.48 dB  
 .01 % 7.04 dB

Date: 17.JAN.2013 19:50:34

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 17.03 dBm  
 Peak 25.68 dBm  
 Crest 8.65 dB

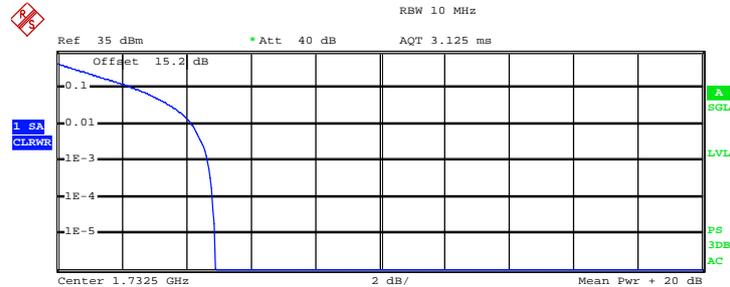
10 % 3.56 dB  
 1 % 6.00 dB  
 .1 % 7.20 dB  
 .01 % 8.12 dB

Date: 17.JAN.2013 19:50:44



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	1.4MHz
--------------	------------	-------------------	--------

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



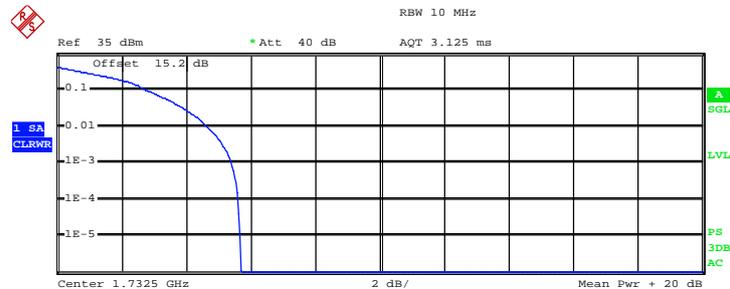
Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 20.57 dBm  
Peak 25.47 dBm  
Crest 4.90 dB

10 % 2.44 dB  
1 % 4.20 dB  
.1 % 4.68 dB  
.01 % 4.84 dB

Date: 17.JAN.2013 17:11:13

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 19.76 dBm  
Peak 25.47 dBm  
Crest 5.71 dB

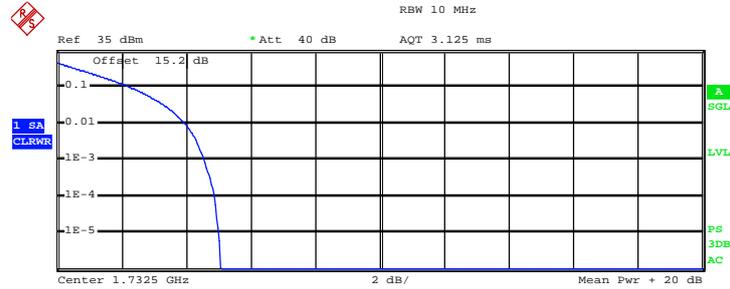
10 % 2.84 dB  
1 % 4.68 dB  
.1 % 5.40 dB  
.01 % 5.64 dB

Date: 17.JAN.2013 17:11:23



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	3MHz
--------------	------------	-------------------	------

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



Complementary Cumulative Distribution Function (100000 samples)

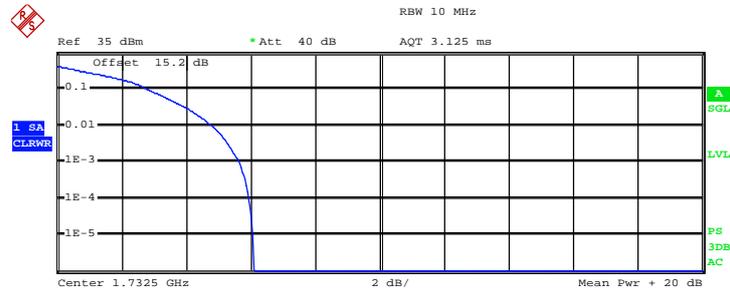
Trace 1

Mean 20.53 dBm  
 Peak 25.61 dBm  
 Crest 5.07 dB

10 % 2.32 dB  
 1 % 3.96 dB  
 .1 % 4.56 dB  
 .01 % 4.88 dB

Date: 17.JAN.2013 17:11:00

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.37 dBm  
 Peak 25.47 dBm  
 Crest 6.09 dB

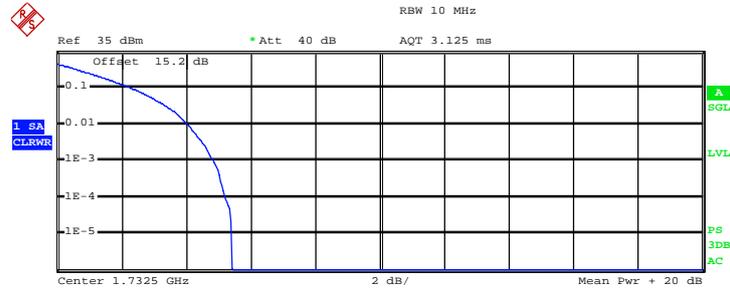
10 % 2.88 dB  
 1 % 4.84 dB  
 .1 % 5.64 dB  
 .01 % 5.96 dB

Date: 17.JAN.2013 17:10:51



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	5MHz
--------------	------------	-------------------	------

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



Complementary Cumulative Distribution Function (100000 samples)

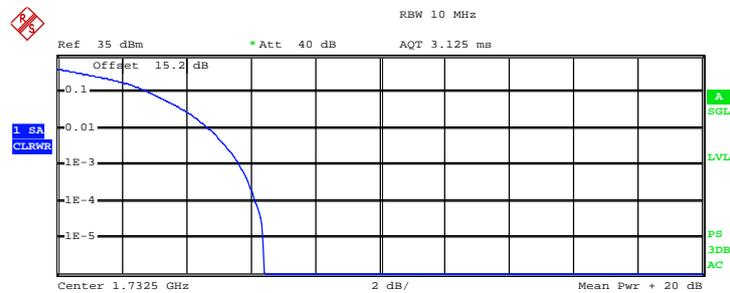
Trace 1

Mean 20.40 dBm  
 Peak 25.82 dBm  
 Crest 5.42 dB

10 % 2.36 dB  
 1 % 4.08 dB  
 .1 % 4.84 dB  
 .01 % 5.24 dB

Date: 17.JAN.2013 17:10:09

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.42 dBm  
 Peak 25.82 dBm  
 Crest 6.40 dB

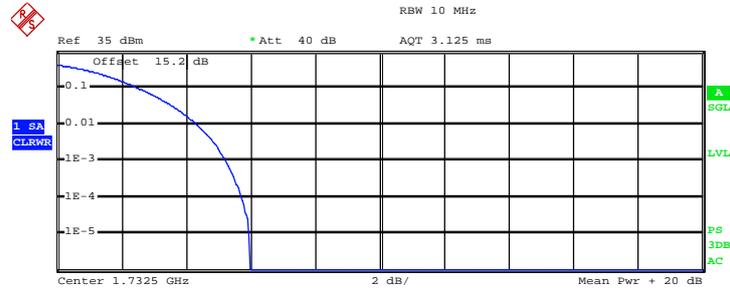
10 % 2.88 dB  
 1 % 4.72 dB  
 .1 % 5.68 dB  
 .01 % 6.16 dB

Date: 17.JAN.2013 17:10:20



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	10MHz
--------------	------------	-------------------	-------

**Peak-to-Average Ratio for QPSK-RB Size 50, RB Offset 0**



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 19.92 dBm  
Peak 25.89 dBm  
Crest 5.97 dB

10 %	2.56 dB
1 %	4.36 dB
.1 %	5.24 dB
.01 %	5.72 dB

Date: 17.JAN.2013 17:09:53

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 18.76 dBm  
Peak 26.03 dBm  
Crest 7.27 dB

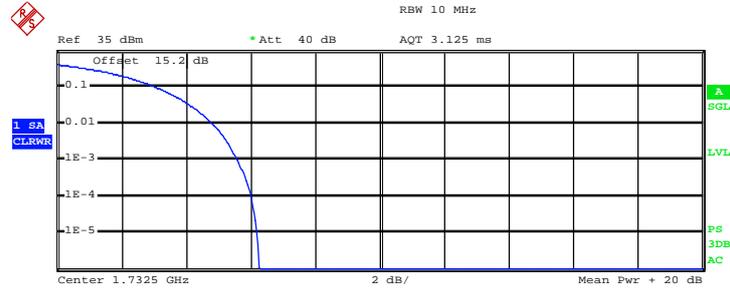
10 %	3.08 dB
1 %	4.92 dB
.1 %	6.00 dB
.01 %	6.92 dB

Date: 17.JAN.2013 17:09:43



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	15MHz
--------------	------------	-------------------	-------

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



Complementary Cumulative Distribution Function (100000 samples)

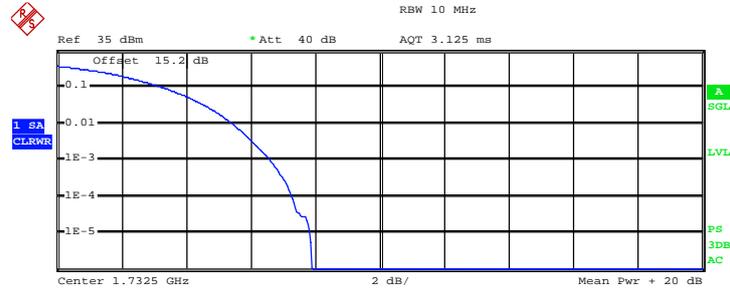
Trace 1

Mean 18.78 dBm  
 Peak 25.04 dBm  
 Crest 6.26 dB

10 % 3.12 dB  
 1 % 4.84 dB  
 .1 % 5.60 dB  
 .01 % 6.04 dB

Date: 17.JAN.2013 17:09:08

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 17.77 dBm  
 Peak 25.68 dBm  
 Crest 7.91 dB

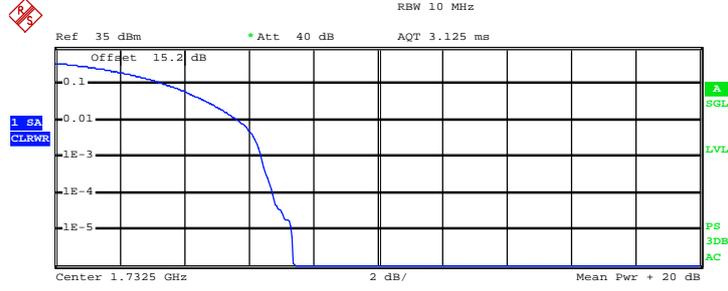
10 % 3.36 dB  
 1 % 5.48 dB  
 .1 % 6.60 dB  
 .01 % 7.28 dB

Date: 17.JAN.2013 17:09:20



<b>Band:</b>	LTE Band 4	<b>Bandwidth:</b>	20MHz
--------------	------------	-------------------	-------

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



Complementary Cumulative Distribution Function (100000 samples)

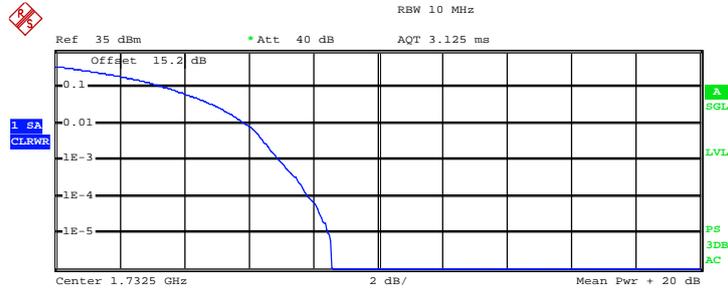
Trace 1

Mean 17.72 dBm  
 Peak 25.11 dBm  
 Crest 7.39 dB

10 % 3.48 dB  
 1 % 5.68 dB  
 .1 % 6.40 dB  
 .01 % 6.76 dB

Date: 17.JAN.2013 17:08:55

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 16.53 dBm  
 Peak 25.11 dBm  
 Crest 8.58 dB

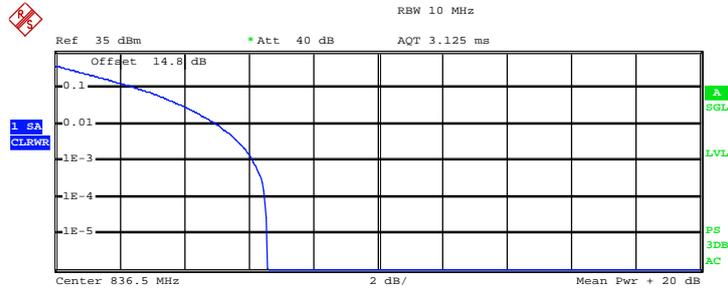
10 % 3.52 dB  
 1 % 5.92 dB  
 .1 % 6.96 dB  
 .01 % 7.84 dB

Date: 17.JAN.2013 17:08:45



<b>Band:</b>	LTE Band 5	<b>Bandwidth:</b>	1.4MHz
--------------	------------	-------------------	--------

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



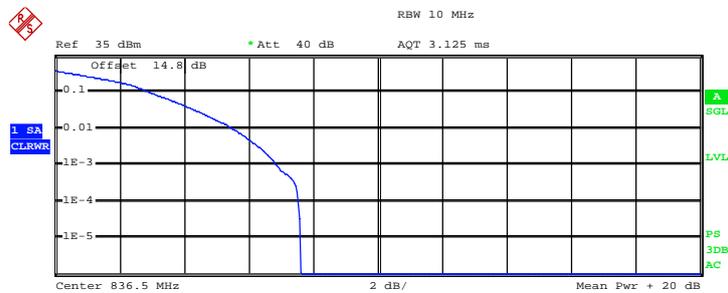
Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
 Mean 20.86 dBm  
 Peak 27.44 dBm  
 Crest 6.58 dB

10 %	2.60 dB
1 %	5.04 dB
.1 %	6.16 dB
.01 %	6.52 dB

Date: 17.JAN.2013 16:06:47

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
 Mean 19.89 dBm  
 Peak 27.51 dBm  
 Crest 7.62 dB

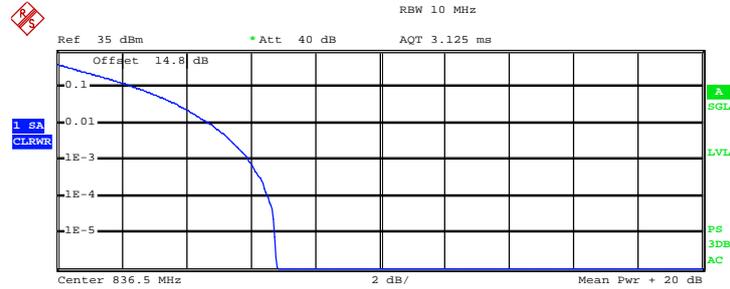
10 %	3.00 dB
1 %	5.52 dB
.1 %	6.88 dB
.01 %	7.56 dB

Date: 17.JAN.2013 16:06:37



<b>Band:</b>	LTE Band 5	<b>Bandwidth:</b>	3MHz
--------------	------------	-------------------	------

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



Complementary Cumulative Distribution Function (100000 samples)

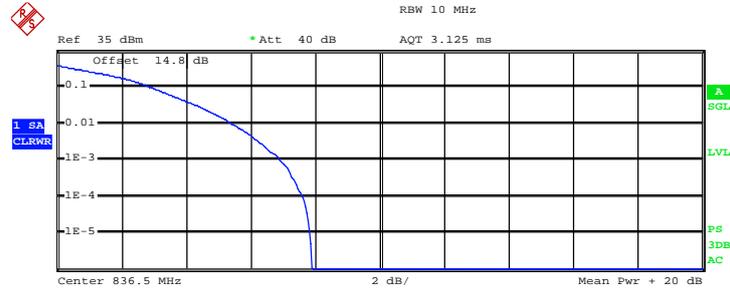
Trace 1

Mean 20.64 dBm  
 Peak 27.44 dBm  
 Crest 6.80 dB

10 % 2.48 dB  
 1 % 4.76 dB  
 .1 % 5.96 dB  
 .01 % 6.56 dB

Date: 17.JAN.2013 16:06:59

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.68 dBm  
 Peak 27.58 dBm  
 Crest 7.90 dB

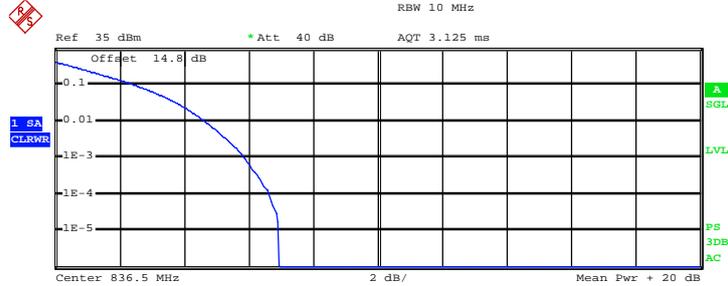
10 % 2.96 dB  
 1 % 5.44 dB  
 .1 % 6.92 dB  
 .01 % 7.64 dB

Date: 17.JAN.2013 16:07:10



<b>Band:</b>	LTE Band 5	<b>Bandwidth:</b>	5MHz
--------------	------------	-------------------	------

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



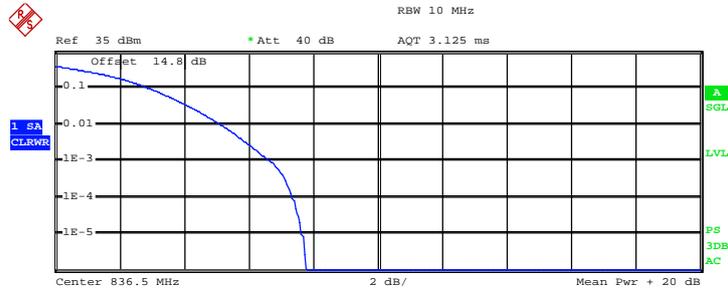
Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 20.56 dBm  
Peak 27.51 dBm  
Crest 6.95 dB

10 %	2.56 dB
1 %	4.68 dB
.1 %	5.88 dB
.01 %	6.64 dB

Date: 17.JAN.2013 16:07:45

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1  
Mean 19.54 dBm  
Peak 27.30 dBm  
Crest 7.76 dB

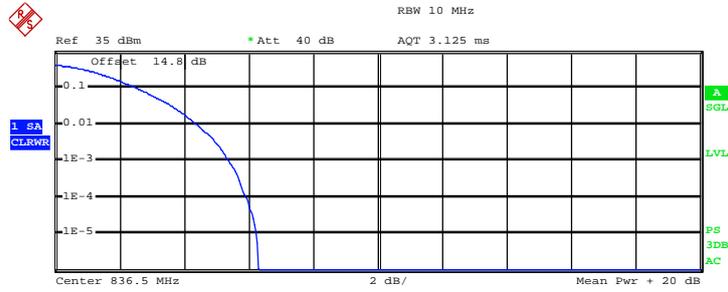
10 %	2.96 dB
1 %	5.16 dB
.1 %	6.68 dB
.01 %	7.36 dB

Date: 17.JAN.2013 16:07:34



<b>Band:</b>	LTE Band 5	<b>Bandwidth:</b>	10MHz
--------------	------------	-------------------	-------

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



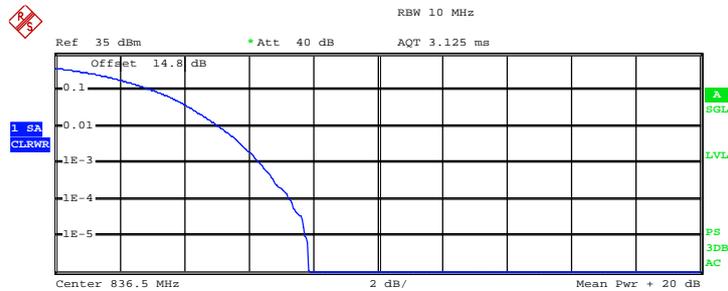
Center 836.5 MHz 2 dB/ Mean Pwr + 20 dB

Complementary Cumulative Distribution Function (100000 samples)  
 Trace 1  
 Mean 20.15 dBm  
 Peak 26.45 dBm  
 Crest 6.31 dB

10 %	2.60 dB
1 %	4.40 dB
.1 %	5.40 dB
.01 %	5.96 dB

Date: 17.JAN.2013 16:08:02

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



Center 836.5 MHz 2 dB/ Mean Pwr + 20 dB

Complementary Cumulative Distribution Function (100000 samples)  
 Trace 1  
 Mean 19.00 dBm  
 Peak 26.88 dBm  
 Crest 7.87 dB

10 %	3.08 dB
1 %	5.12 dB
.1 %	6.36 dB
.01 %	7.32 dB

Date: 17.JAN.2013 16:08:12



<b>Band:</b>	LTE Band 17	<b>Bandwidth:</b>	5MHz
--------------	-------------	-------------------	------

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



Complementary Cumulative Distribution Function (100000 samples)

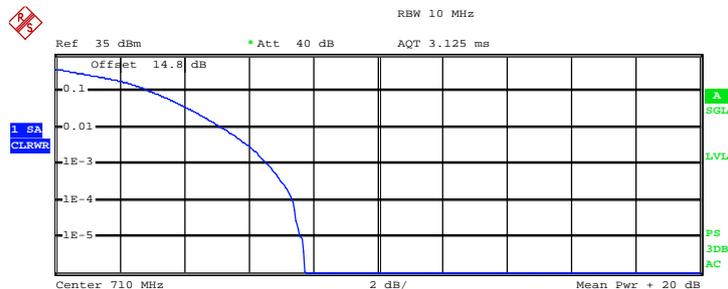
Trace 1

Mean 21.12 dBm  
 Peak 28.15 dBm  
 Crest 7.04 dB

10 % 2.48 dB  
 1 % 4.68 dB  
 .1 % 6.04 dB  
 .01 % 6.72 dB

Date: 26.JAN.2013 11:18:15

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.07 dBm  
 Peak 27.80 dBm  
 Crest 7.73 dB

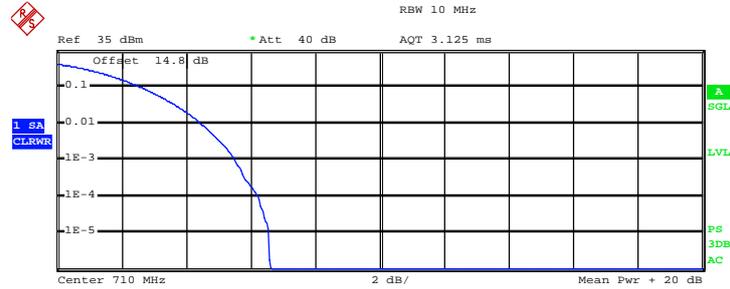
10 % 3.04 dB  
 1 % 5.24 dB  
 .1 % 6.60 dB  
 .01 % 7.36 dB

Date: 26.JAN.2013 11:18:31



<b>Band:</b>	LTE Band 17	<b>Bandwidth:</b>	10MHz
--------------	-------------	-------------------	-------

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



Complementary Cumulative Distribution Function (100000 samples)

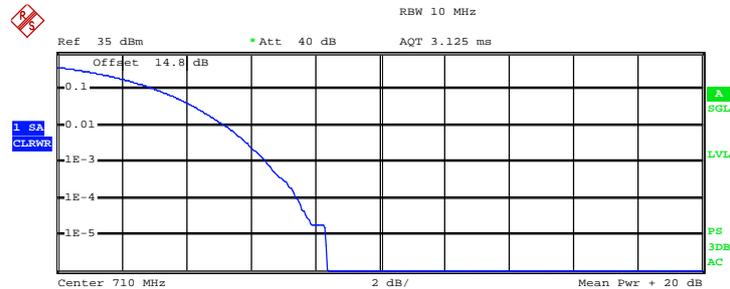
Trace 1

Mean 20.50 dBm  
 Peak 27.10 dBm  
 Crest 6.59 dB

10 % 2.64 dB  
 1 % 4.48 dB  
 .1 % 5.52 dB  
 .01 % 6.24 dB

Date: 26.JAN.2013 11:19:10

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.44 dBm  
 Peak 27.80 dBm  
 Crest 8.36 dB

10 % 3.12 dB  
 1 % 5.24 dB  
 .1 % 6.52 dB  
 .01 % 7.48 dB

Date: 26.JAN.2013 11:18:56

### 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.

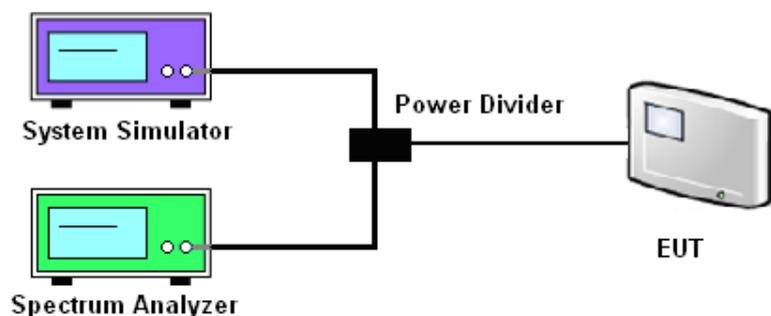
#### 3.3.2 Measuring Instruments

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	1.3104
				16-QAM	1.0976	1.3104
	3MHz	18900	1880	QPSK	2.7360	3.1200
				16-QAM	2.7360	3.1680
	5MHz	18900	1880	QPSK	4.5000	5.1200
				16-QAM	4.5200	5.0400
	10MHz	18900	1880	QPSK	9.1200	10.2000
				16-QAM	9.0800	10.2000
	15MHz	18900	1880	QPSK	13.5600	14.9400
				16-QAM	13.5000	15.0000
	20MHz	18900	1880	QPSK	17.9200	19.5200
				16-QAM	18.0000	19.5200
LTE Band 4	1.4MHz	20175	1732.5	QPSK	1.0976	1.2992
				16-QAM	1.1032	1.3216
	3MHz	20175	1732.5	QPSK	2.7360	3.1560
				16-QAM	2.7360	3.1440
	5MHz	20175	1732.5	QPSK	4.5000	5.1400
				16-QAM	4.5200	5.1200
	10MHz	20175	1732.5	QPSK	9.1200	10.3200
				16-QAM	9.0800	10.1600
	15MHz	20175	1732.5	QPSK	13.5000	15.0000
				16-QAM	13.5000	15.1200
	20MHz	20175	1732.5	QPSK	17.9200	19.6000
				16-QAM	18.0000	19.5200



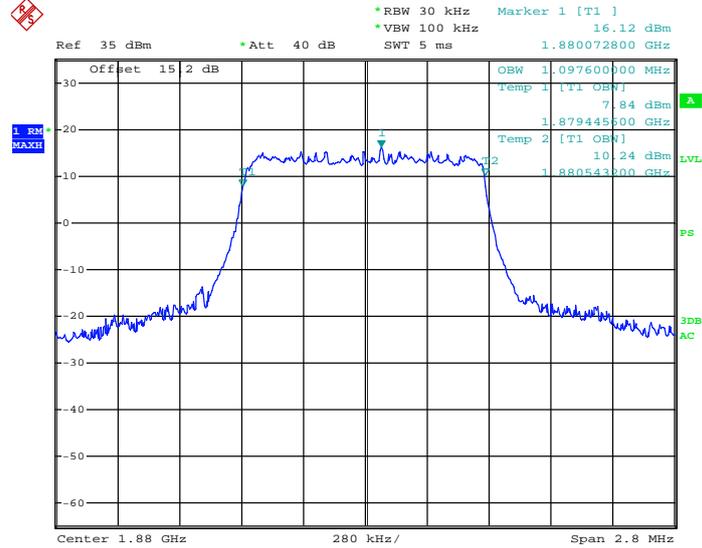
Band	Band Width	Channel	Frequency (MHz)	Modulation	99%Bandwidth (MHz)	26dB Bandwidth (MHz)
LTE Band 5	1.4MHz	20525	836.5	QPSK	1.0976	1.3160
				16-QAM	1.0976	1.3104
	3MHz	20525	836.5	QPSK	2.7240	3.1440
				16-QAM	2.7360	3.1320
	5MHz	20525	836.5	QPSK	4.5000	5.0800
				16-QAM	4.5000	5.0600
10MHz	20525	836.5	QPSK	9.0800	10.2000	
			16-QAM	9.0400	10.0800	
LTE Band 17	5MHz	23790	710.0	QPSK	4.5000	5.1000
				16-QAM	4.5000	5.1400
	10MHz	23790	710.0	QPSK	9.1600	10.3200
				16-QAM	9.1200	10.2400



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

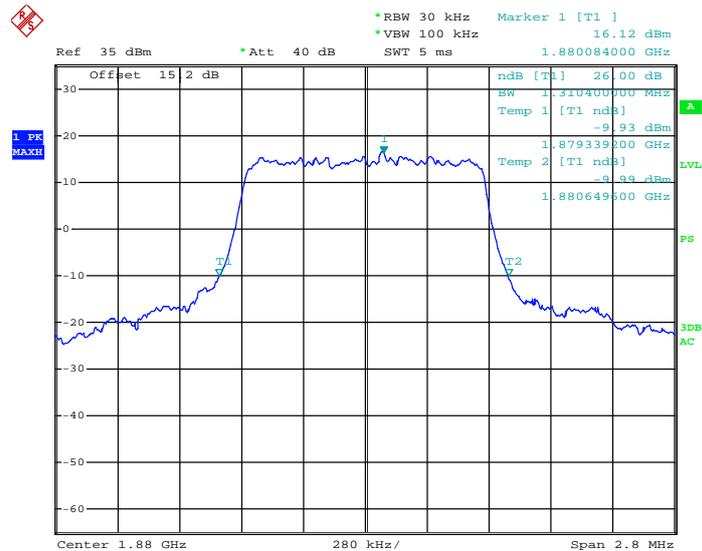
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
--------	------------	-------------	---------------

**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 6, RB Offset 0**



Date: 17.JAN.2013 19:38:46

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

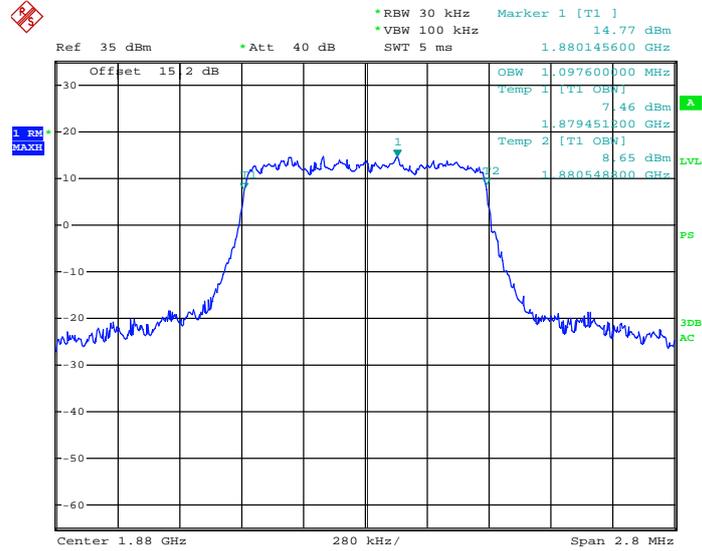


Date: 17.JAN.2013 19:44:40



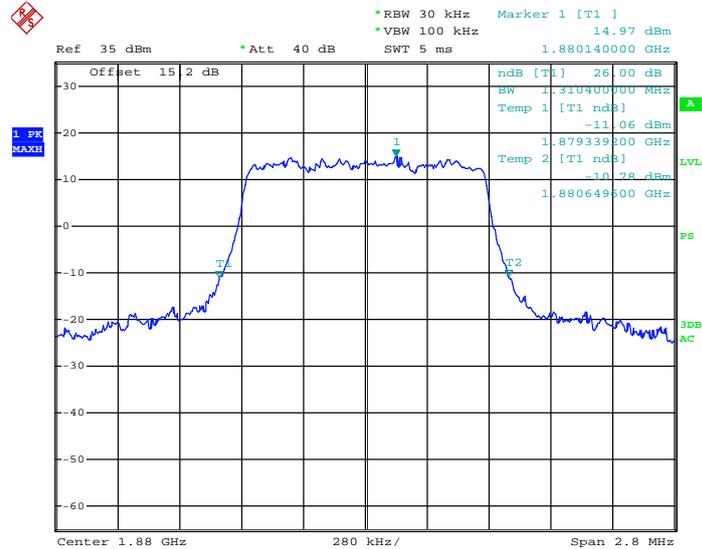
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
--------	------------	-------------	----------------

**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 6, RB Offset 0**



Date: 17.JAN.2013 19:39:11

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

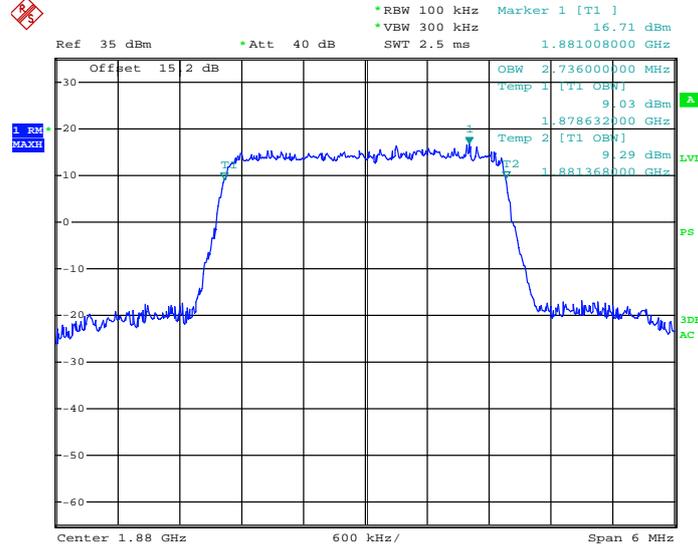


Date: 17.JAN.2013 19:45:07



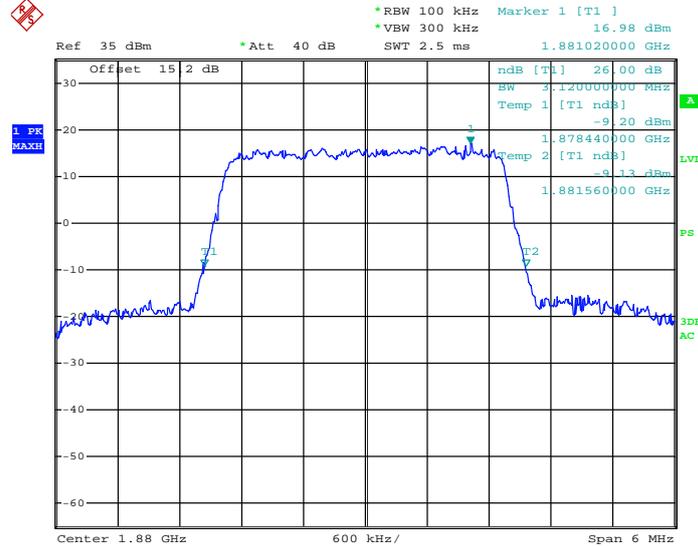
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
--------	------------	-------------	-------------

**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 15, RB Offset 0**



Date: 17.JAN.2013 19:34:34

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



Date: 17.JAN.2013 19:46:14

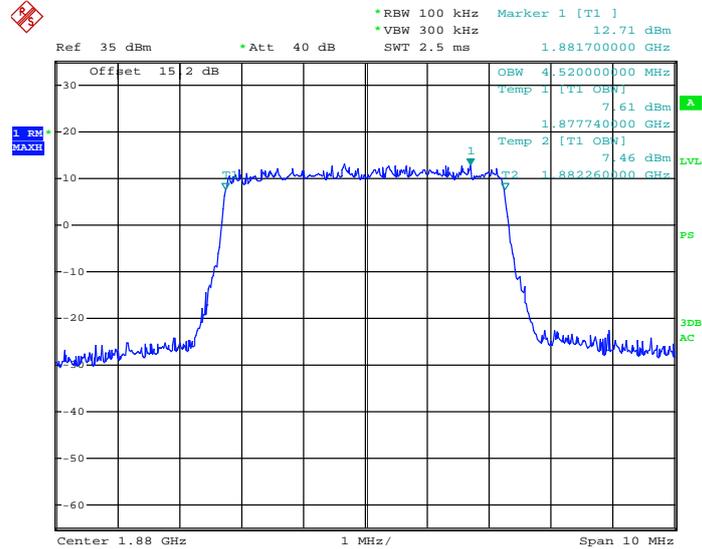






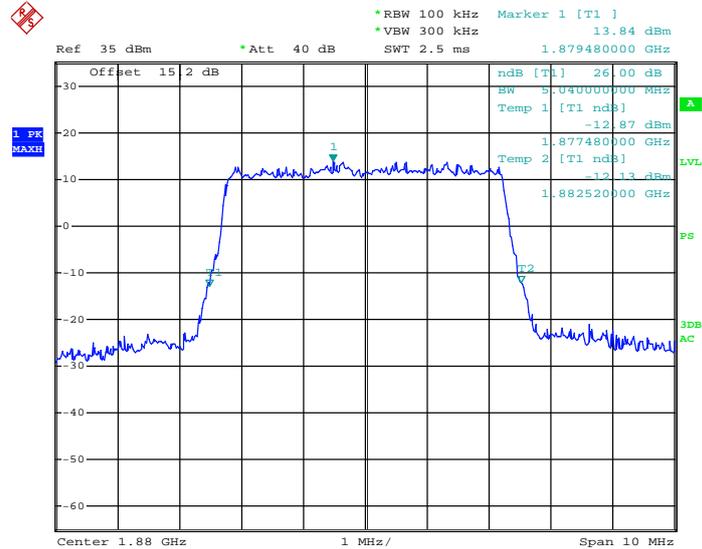
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
--------	------------	-------------	--------------

**99% Occupied Bandwidth Plot on Channel 18900  
for RB Size 25, RB Offset 0**



Date: 17.JAN.2013 19:31:29

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



Date: 17.JAN.2013 19:47:05









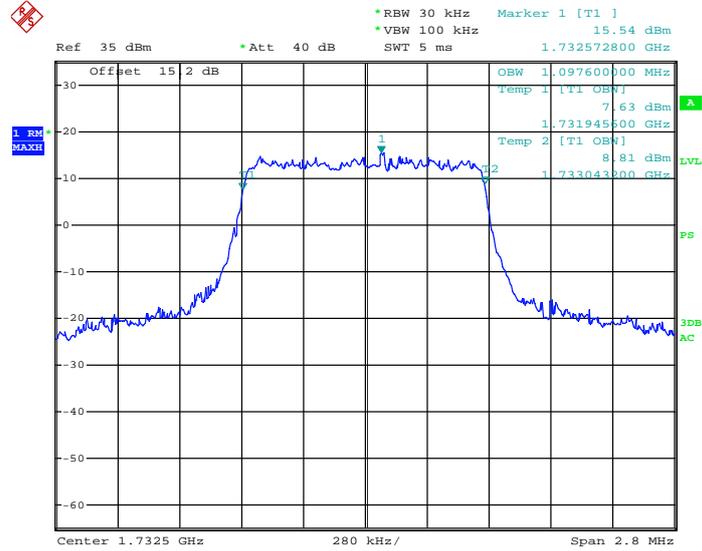






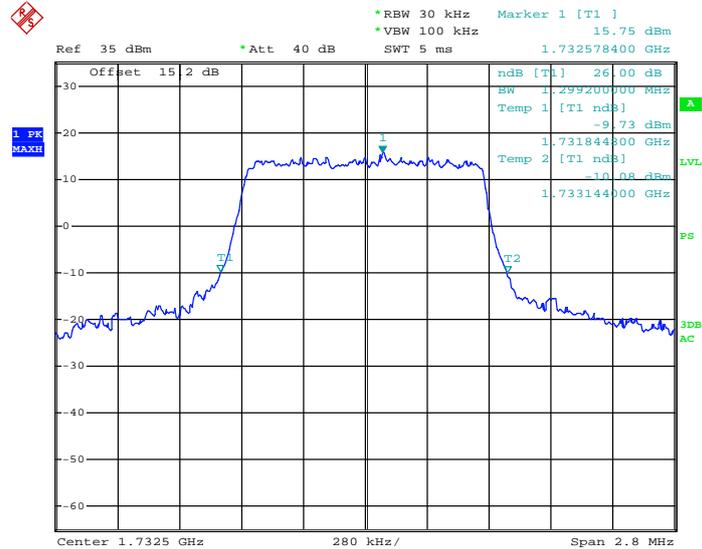
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
--------	------------	-------------	---------------

**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 6, RB Offset 0**



Date: 17.JAN.2013 17:14:15

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

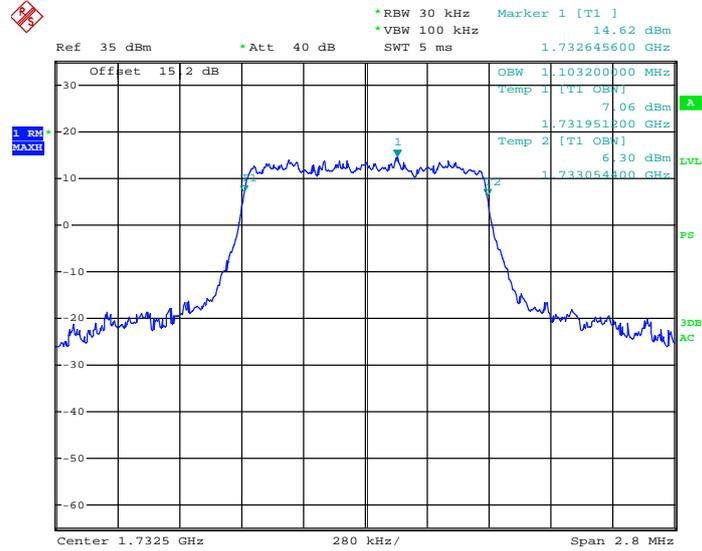


Date: 17.JAN.2013 16:35:34



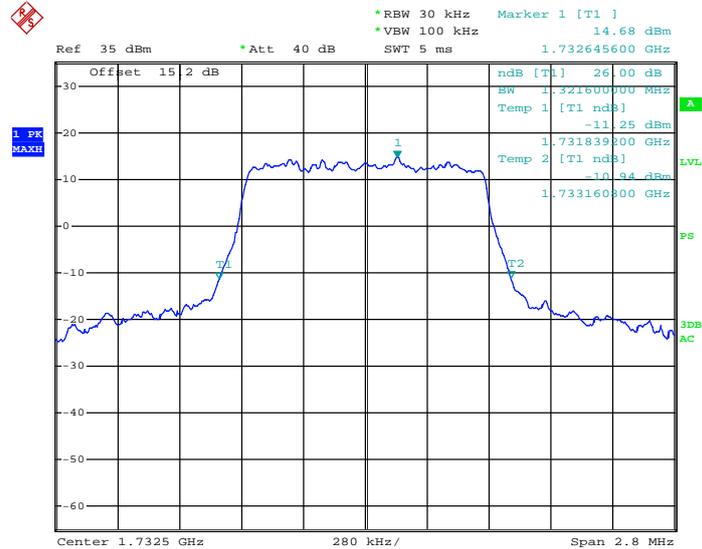
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
--------	------------	-------------	----------------

**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 6, RB Offset 0**



Date: 17.JAN.2013 17:13:54

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



Date: 17.JAN.2013 16:35:11

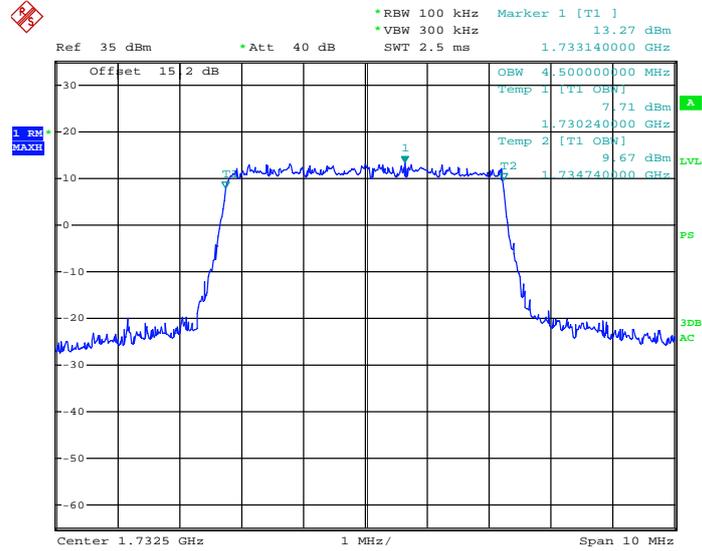






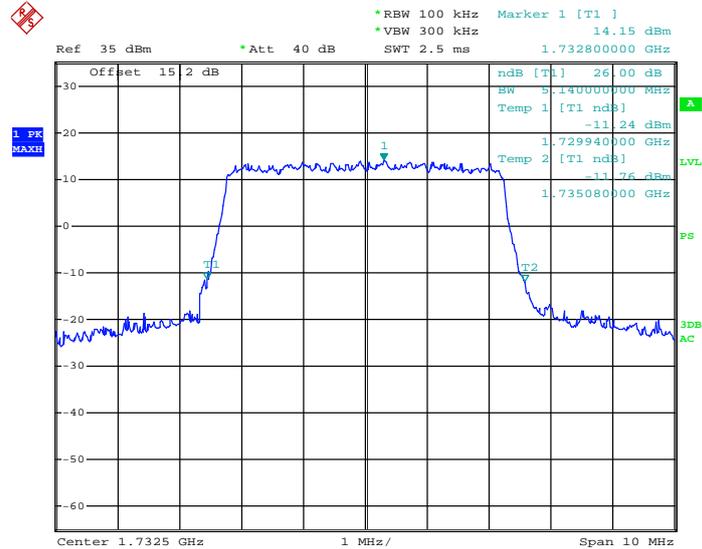
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
--------	------------	-------------	-------------

**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 25, RB Offset 0**



Date: 17.JAN.2013 18:08:24

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

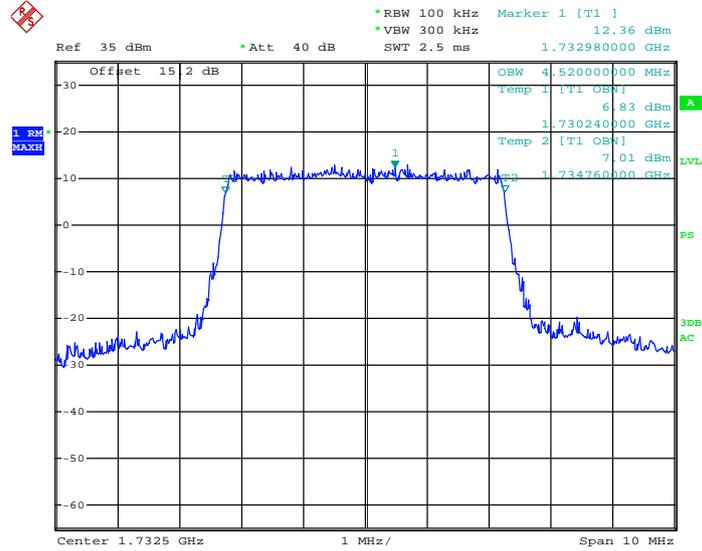


Date: 17.JAN.2013 16:37:17



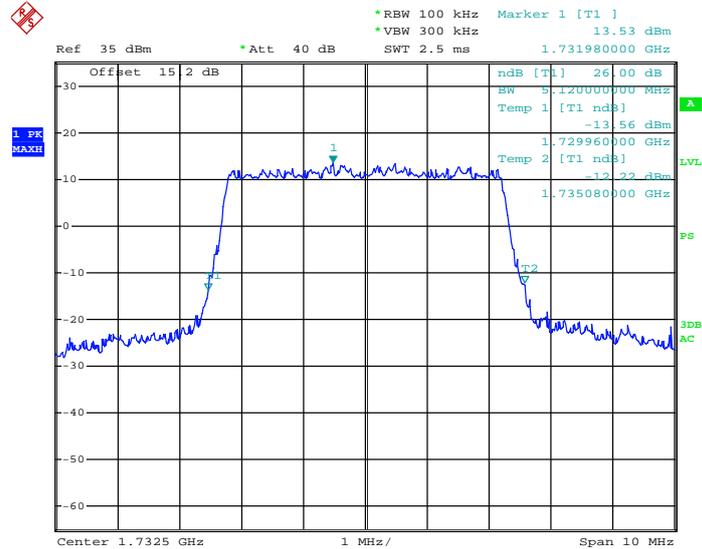
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
--------	------------	-------------	--------------

**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 25, RB Offset 0**



Date: 17.JAN.2013 18:08:03

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

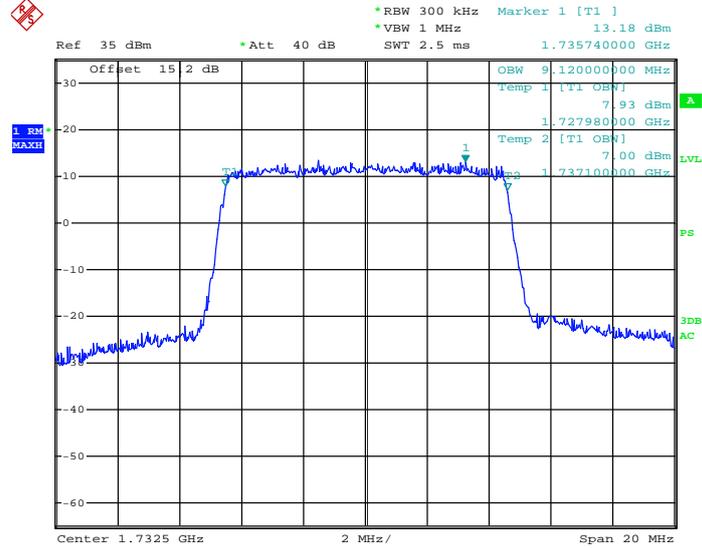


Date: 17.JAN.2013 16:36:56



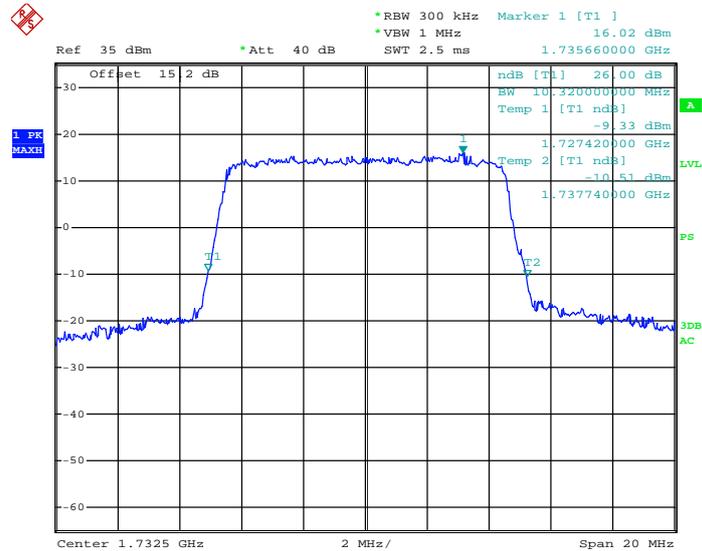
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
--------	------------	-------------	--------------

**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 50, RB Offset 0**



Date: 17.JAN.2013 18:12:43

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



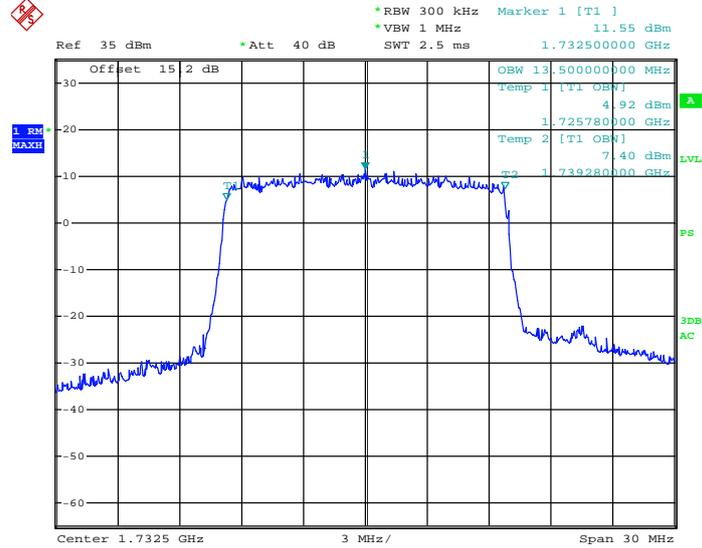
Date: 17.JAN.2013 16:37:52





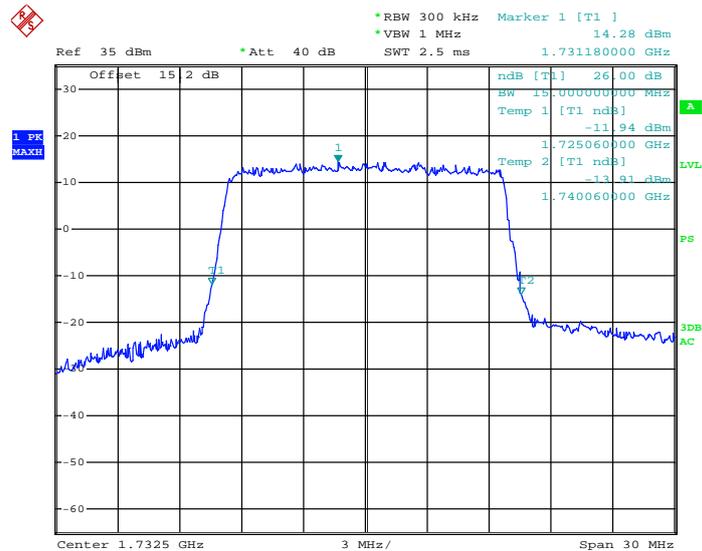
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
--------	------------	-------------	--------------

**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 75, RB Offset 0**



Date: 17.JAN.2013 18:16:12

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

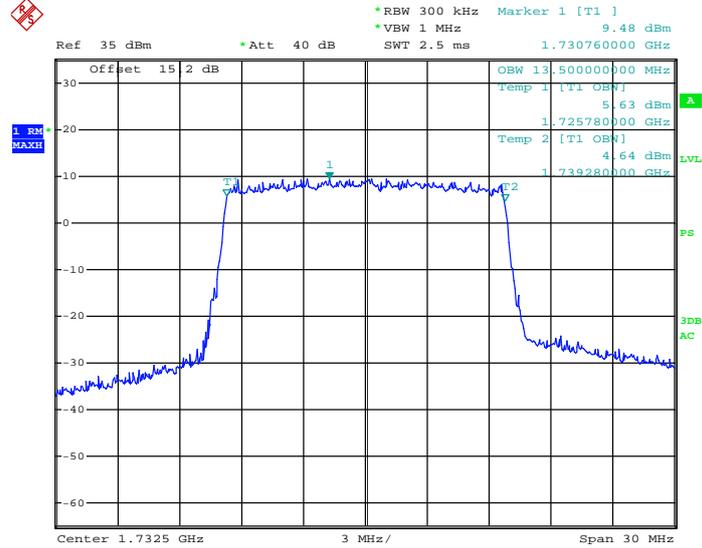


Date: 17.JAN.2013 16:39:03



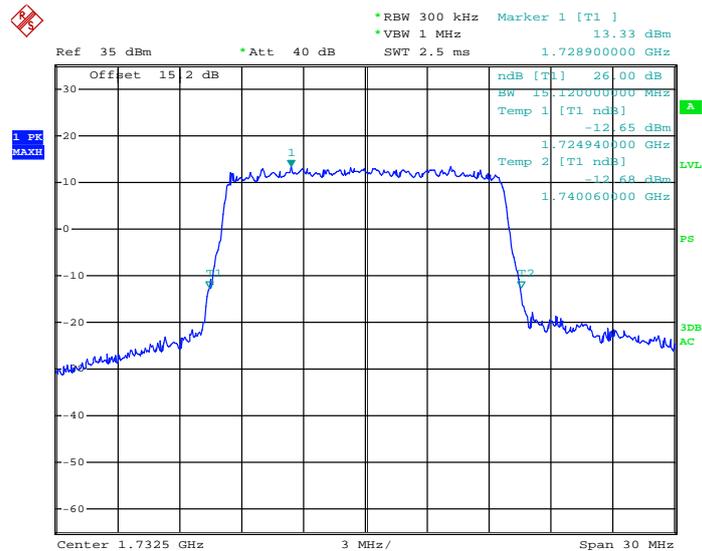
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
--------	------------	-------------	---------------

**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 75, RB Offset 0**



Date: 17.JAN.2013 18:15:57

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



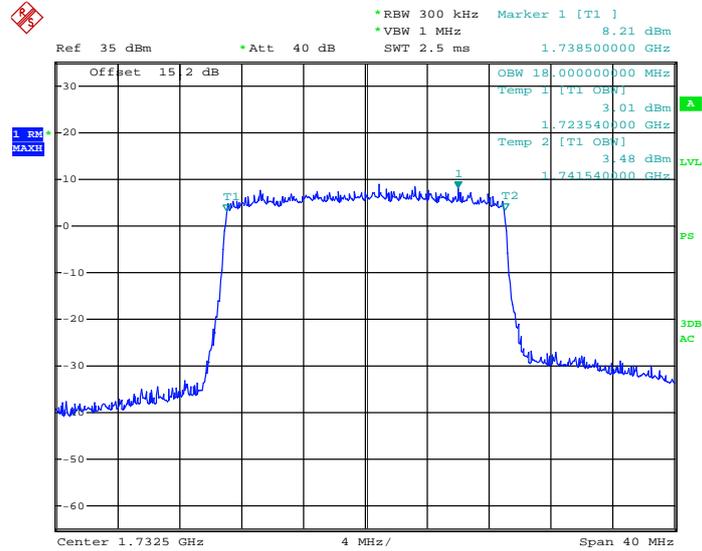
Date: 17.JAN.2013 16:38:44





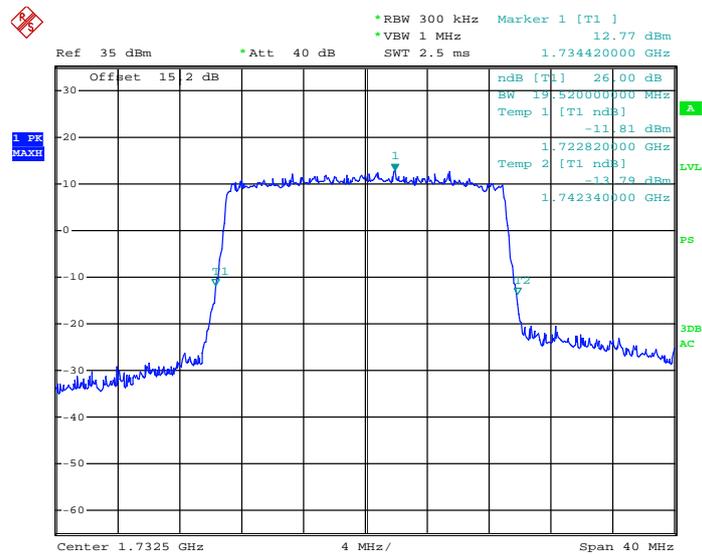
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / 16QAM
---------------	------------	--------------------	---------------

**99% Occupied Bandwidth Plot on Channel 20175  
for RB Size 100, RB Offset 0**



Date: 17.JAN.2013 18:20:09

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

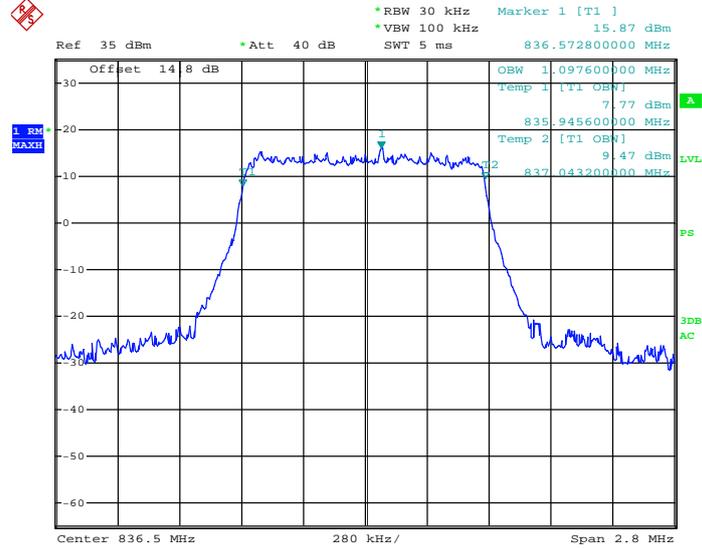


Date: 17.JAN.2013 16:40:03



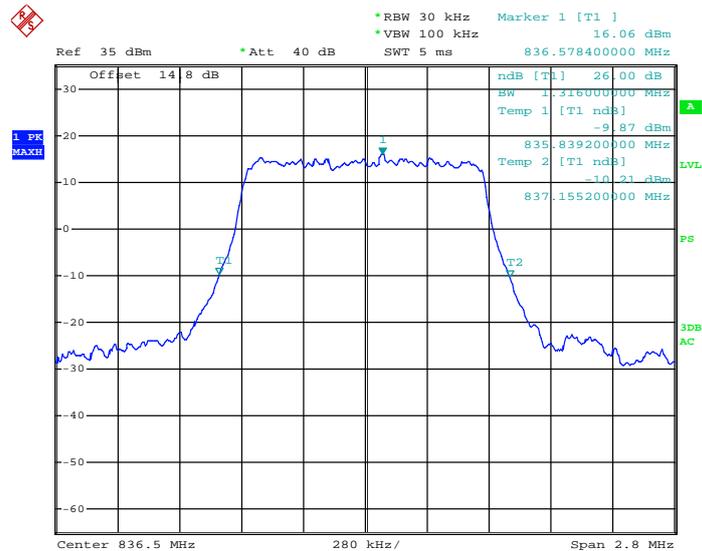
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
--------	------------	-------------	---------------

**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 6, RB Offset 0**



Date: 17.JAN.2013 16:00:41

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

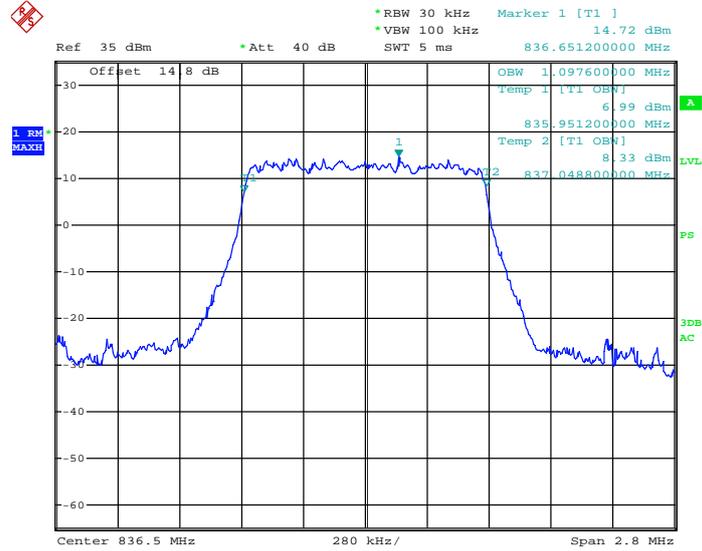


Date: 17.JAN.2013 14:56:08



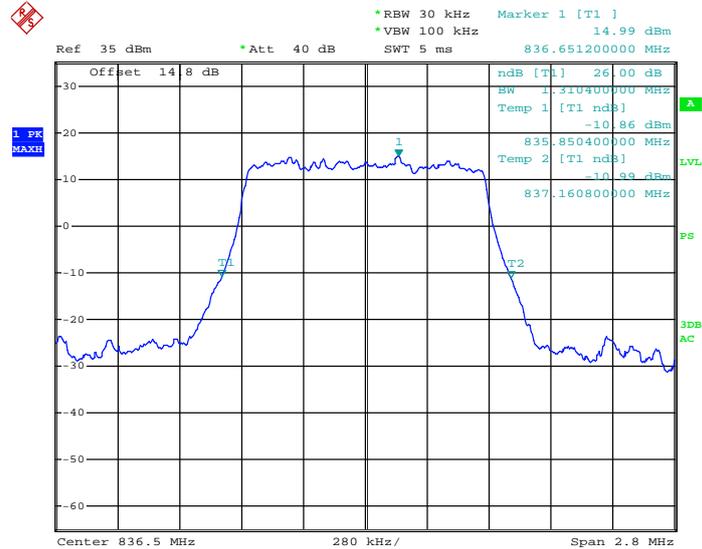
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
--------	------------	-------------	----------------

**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 6, RB Offset 0**



Date: 17.JAN.2013 16:00:15

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

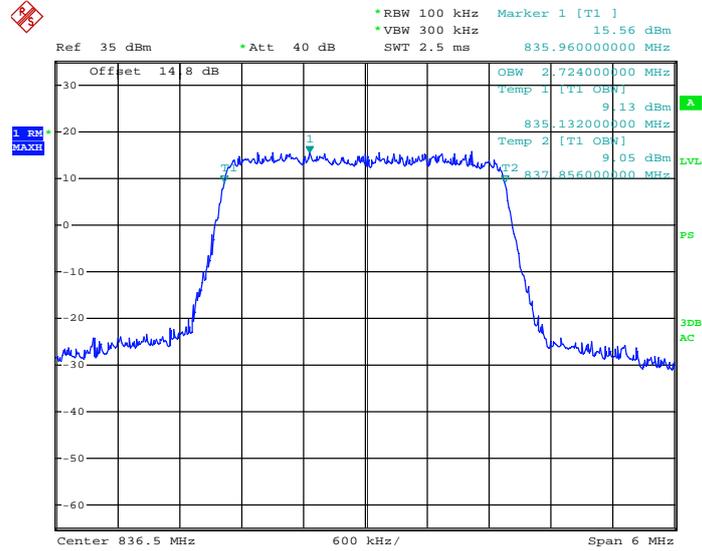


Date: 17.JAN.2013 14:54:58



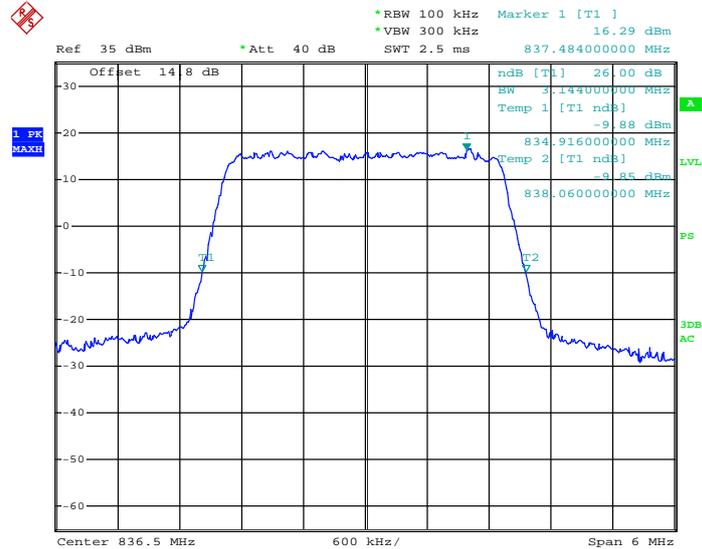
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
--------	------------	-------------	-------------

**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 15, RB Offset 0**



Date: 17.JAN.2013 15:57:29

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

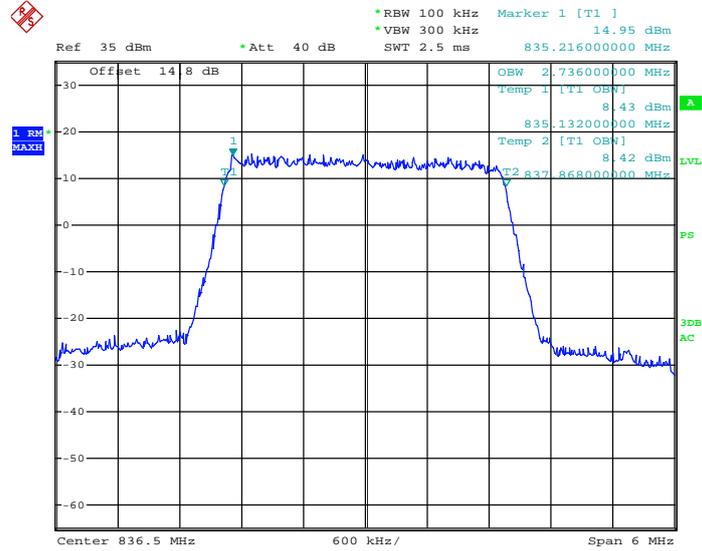


Date: 17.JAN.2013 14:56:59



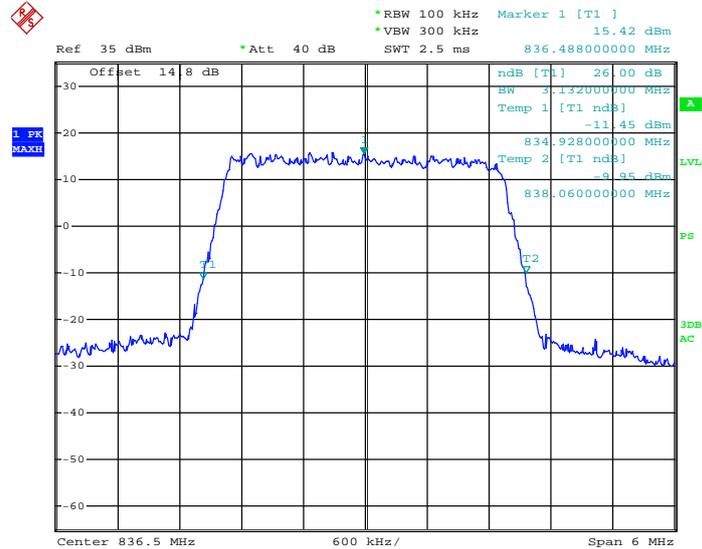
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
--------	------------	-------------	--------------

**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 15, RB Offset 0**



Date: 17.JAN.2013 15:57:12

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

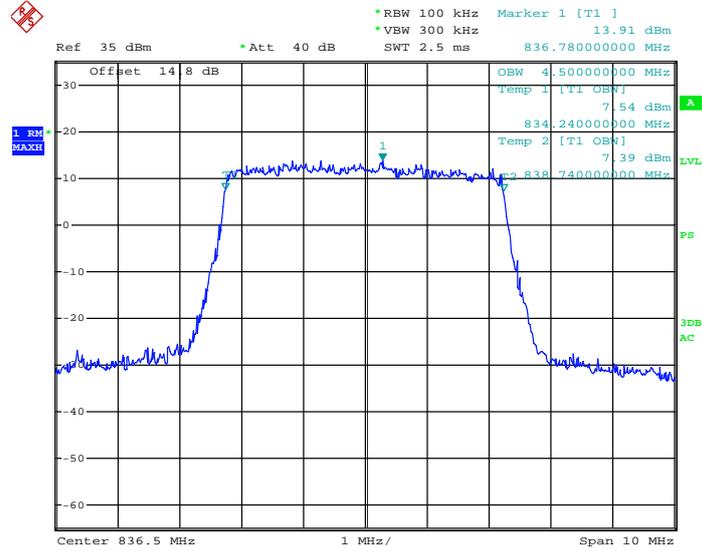


Date: 17.JAN.2013 14:57:15



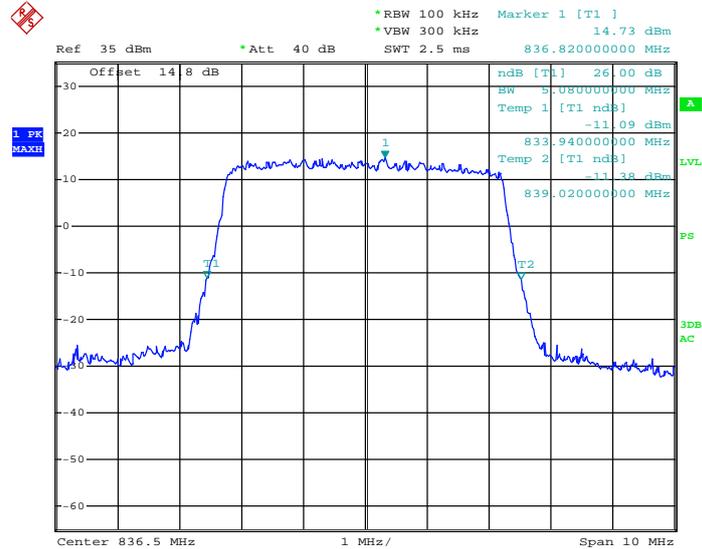
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
--------	------------	-------------	-------------

**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 25, RB Offset 0**



Date: 17.JAN.2013 15:43:43

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

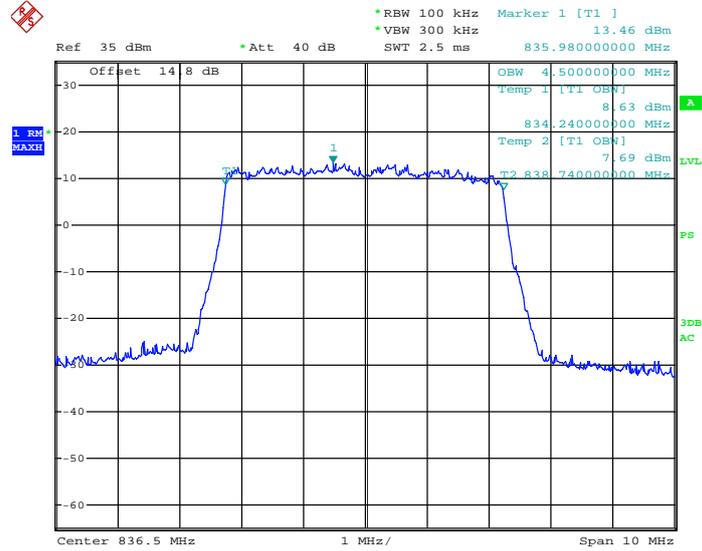


Date: 17.JAN.2013 15:01:45



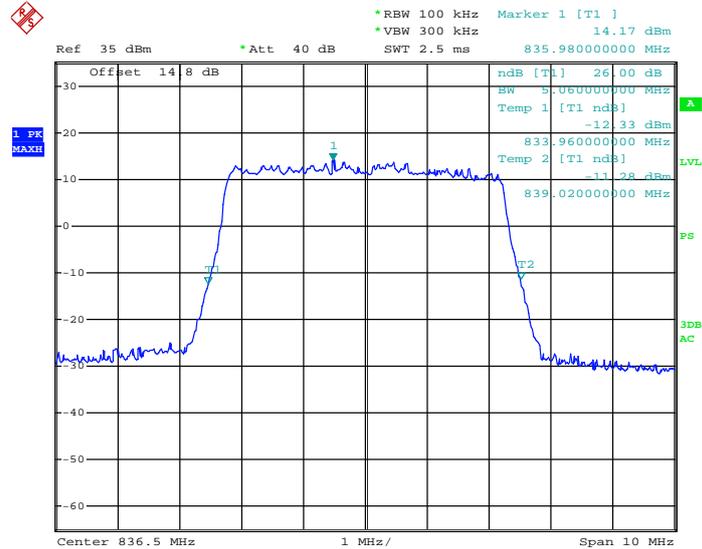
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
--------	------------	-------------	--------------

**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 25, RB Offset 0**



Date: 17.JAN.2013 15:43:23

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

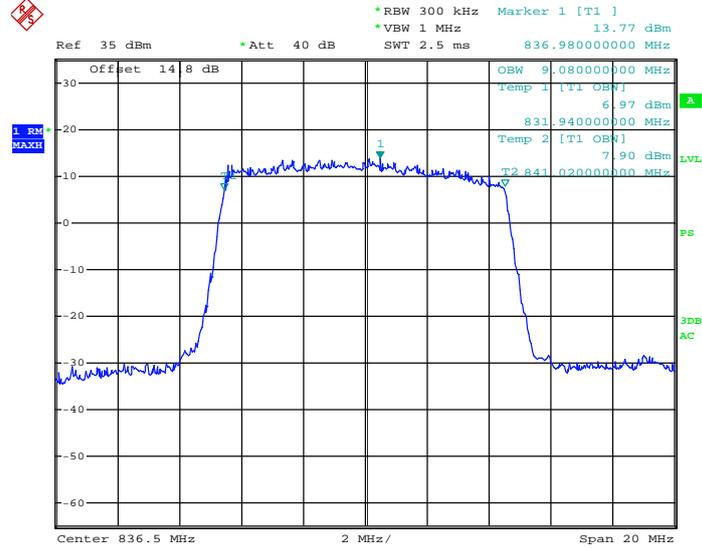


Date: 17.JAN.2013 15:01:20



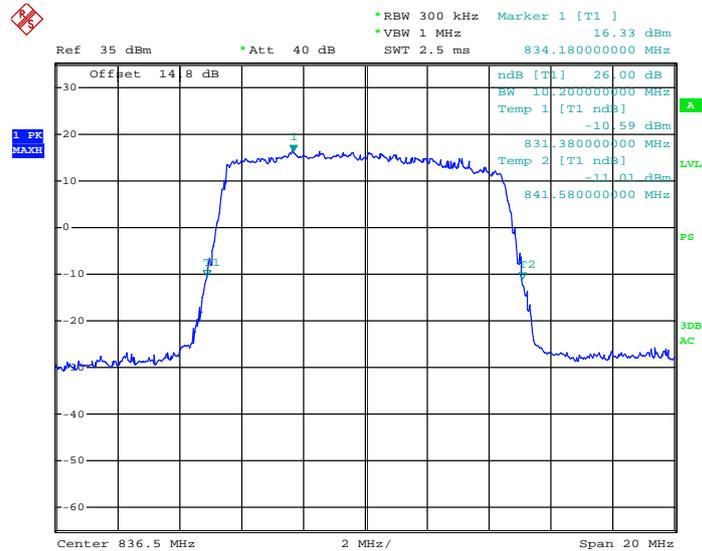
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
--------	------------	-------------	--------------

**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 50, RB Offset 0**



Date: 17.JAN.2013 15:53:41

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

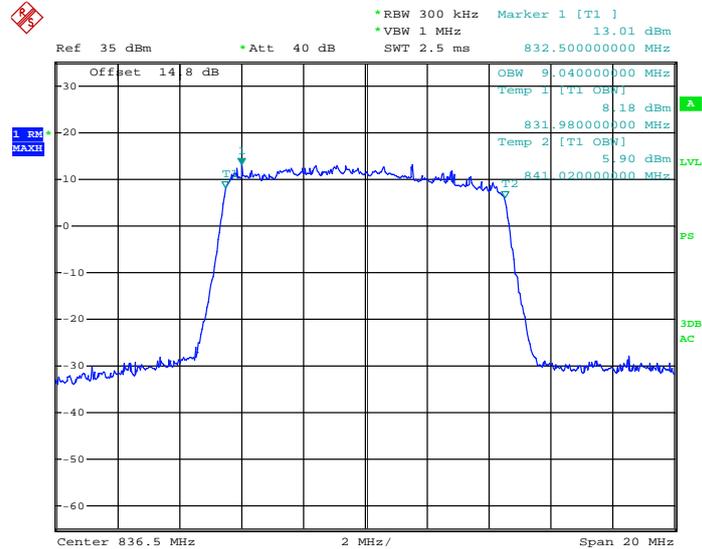


Date: 17.JAN.2013 15:03:21



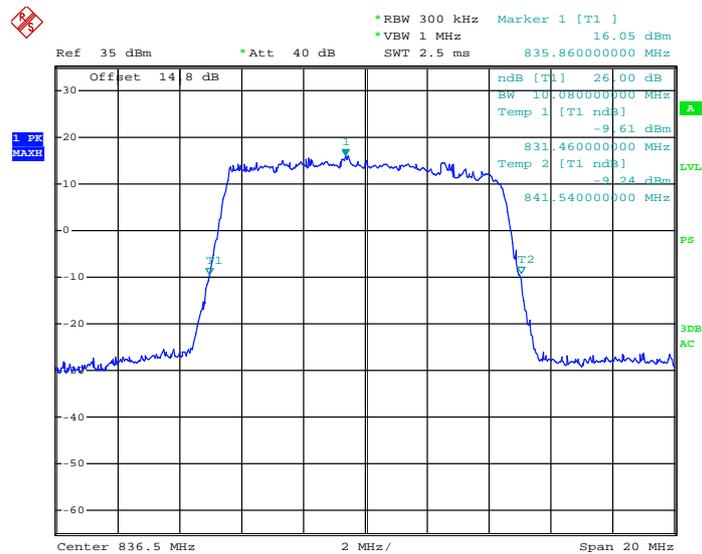
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
--------	------------	-------------	---------------

**99% Occupied Bandwidth Plot on Channel 20525  
for RB Size 50, RB Offset 0**



Date: 17.JAN.2013 15:53:22

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

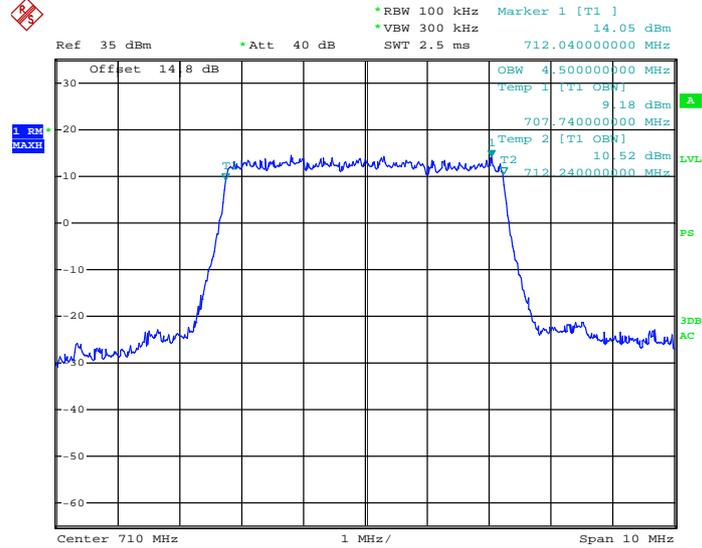


Date: 17.JAN.2013 15:12:02



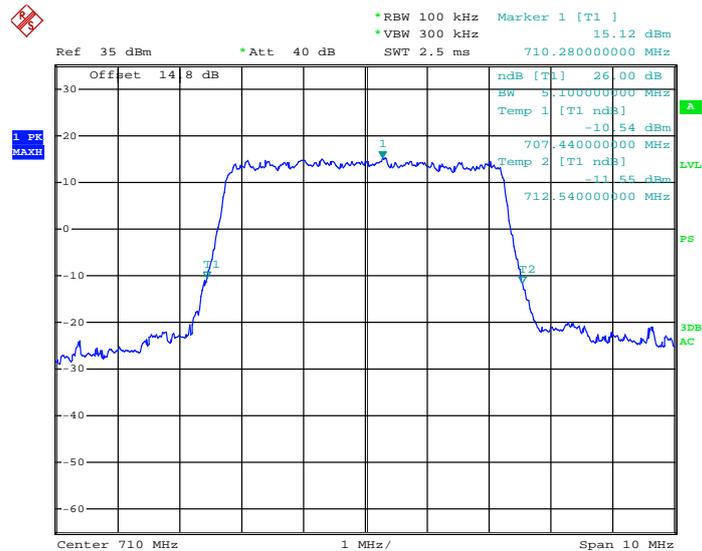
Band :	LTE Band 17	BW / Mod. :	5MHz / QPSK
--------	-------------	-------------	-------------

**99% Occupied Bandwidth Plot on Channel 23790  
for RB Size 25, RB Offset 0**



Date: 26.JAN.2013 11:36:54

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

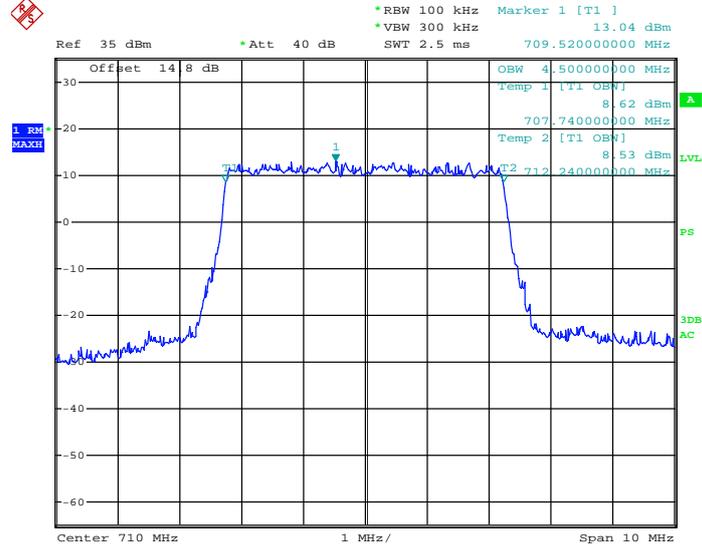


Date: 26.JAN.2013 11:17:41



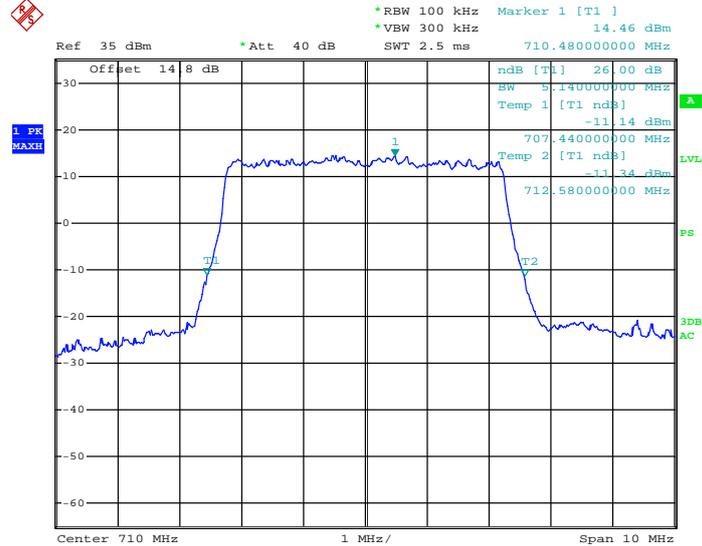
Band :	LTE Band 17	BW / Mod. :	5MHz / 16QAM
--------	-------------	-------------	--------------

**99% Occupied Bandwidth Plot on Channel 23790  
for RB Size 25, RB Offset 0**



Date: 26.JAN.2013 11:37:28

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

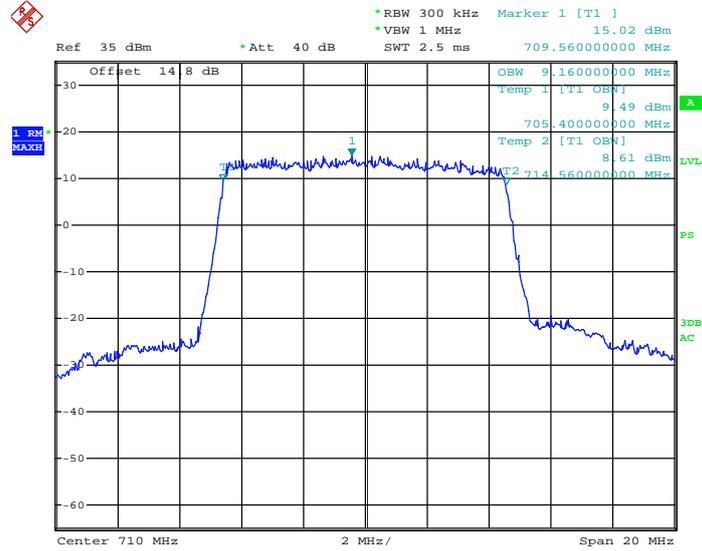


Date: 26.JAN.2013 11:16:56



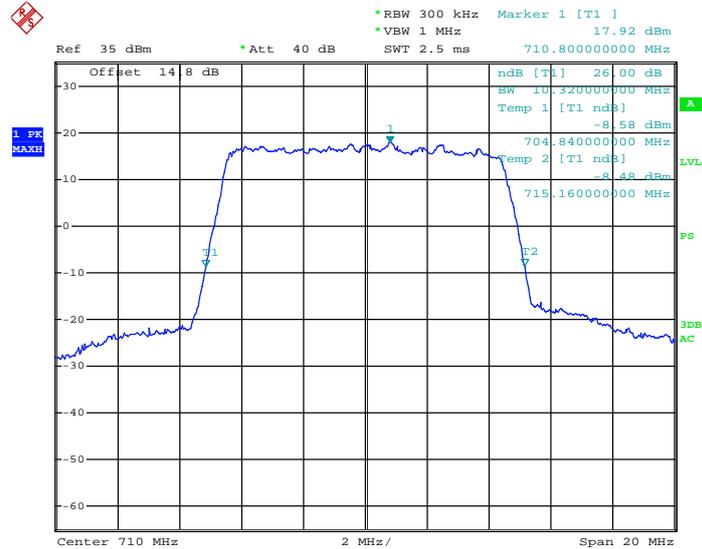
Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
--------	-------------	-------------	--------------

**99% Occupied Bandwidth Plot on Channel 23790  
for RB Size 100, RB Offset 0**



Date: 26.JAN.2013 11:28:14

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

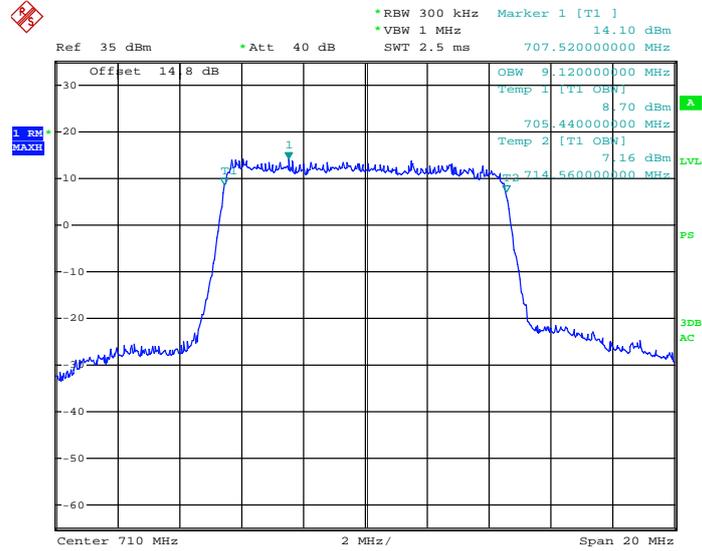


Date: 26.JAN.2013 11:14:34



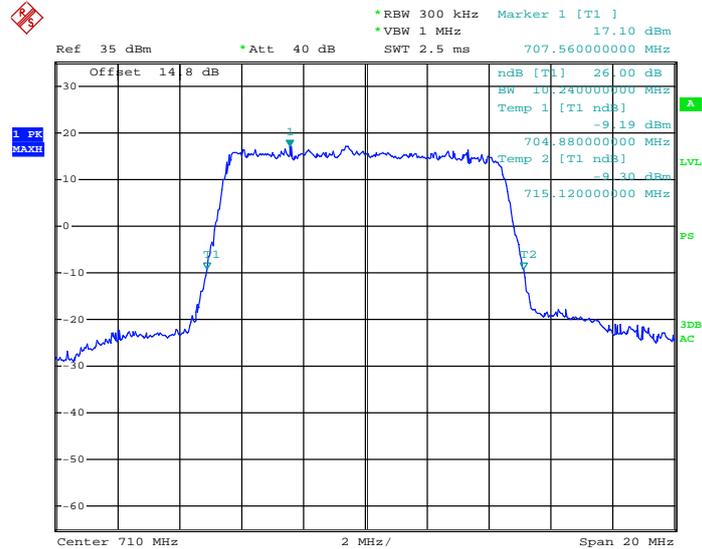
Band :	LTE Band 17	BW / Mod. :	10MHz / 16QAM
--------	-------------	-------------	---------------

**99% Occupied Bandwidth Plot on Channel 23790  
for RB Size 100, RB Offset 0**



Date: 26.JAN.2013 11:29:35

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



Date: 26.JAN.2013 11:15:11

### 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.

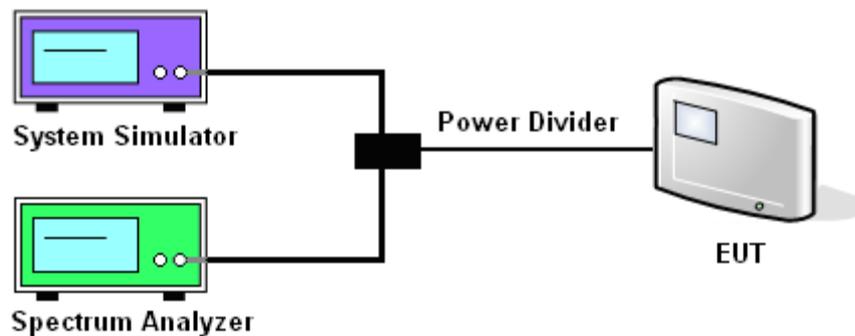
#### 3.4.2 Measuring Instruments

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.

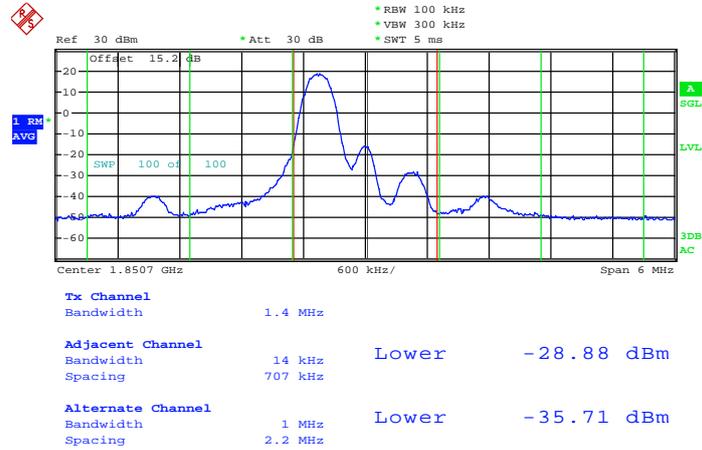
#### 3.4.4 Test Setup



### 3.4.5 Test Result (Plots) of Conducted Band Edge

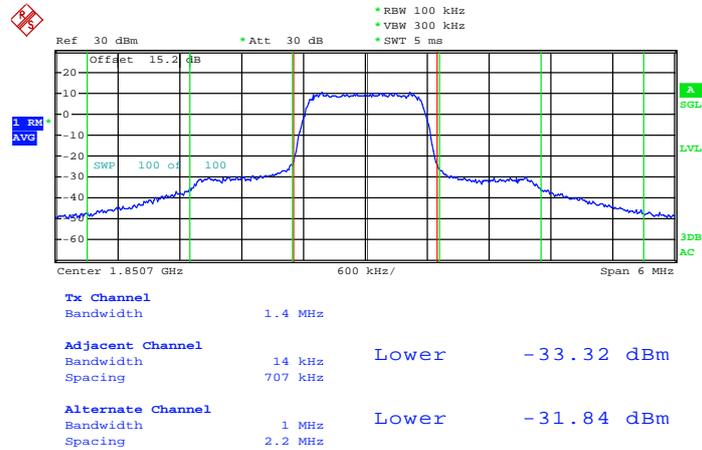
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
--------	------------	-------------	---------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 15:06:20

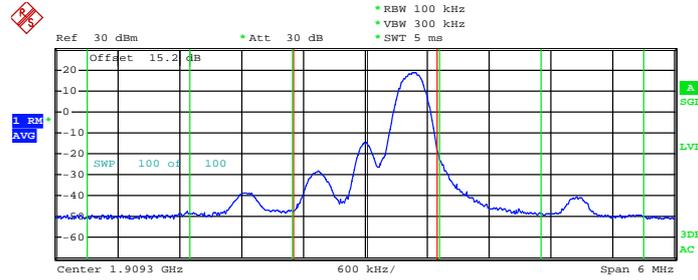
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



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



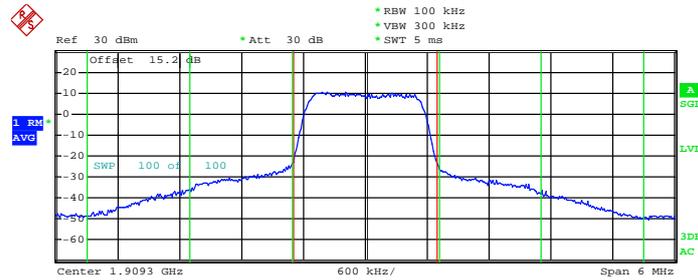
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



<b>Tx Channel</b>	Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>	Bandwidth	14 kHz	Upper	-28.59 dBm
	Spacing	707 kHz		
<b>Alternate Channel</b>	Bandwidth	1 MHz	Upper	-36.41 dBm
	Spacing	2.2 MHz		

Date: 13.MAR.2013 15:08:23

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



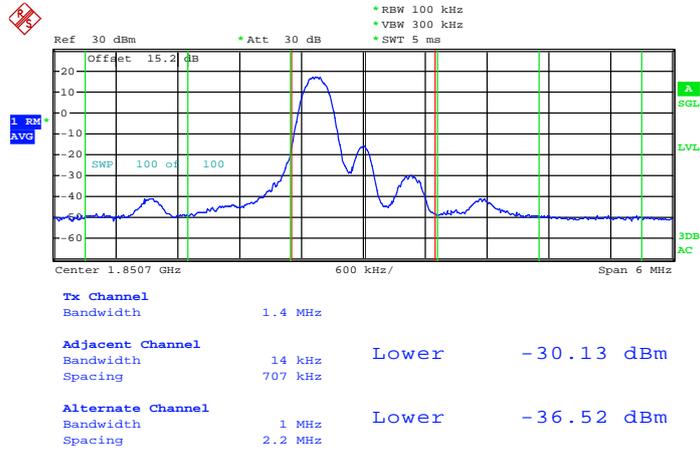
<b>Tx Channel</b>	Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>	Bandwidth	14 kHz	Upper	-33.73 dBm
	Spacing	707 kHz		
<b>Alternate Channel</b>	Bandwidth	1 MHz	Upper	-32.64 dBm
	Spacing	2.2 MHz		

Date: 13.MAR.2013 15:08:48



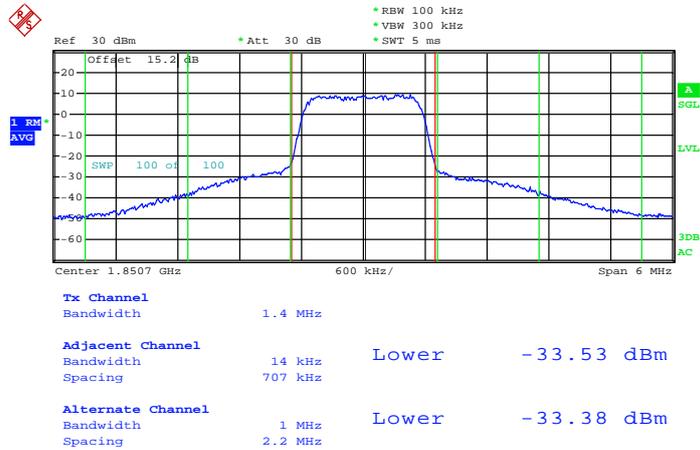
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	1.4MHz / 16QAM
---------------	------------	--------------------	----------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 15:05:53

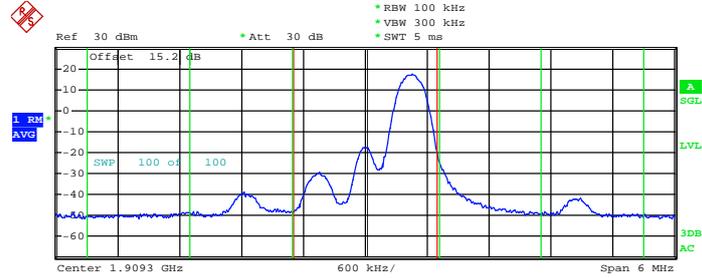
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 13.MAR.2013 15:07:01



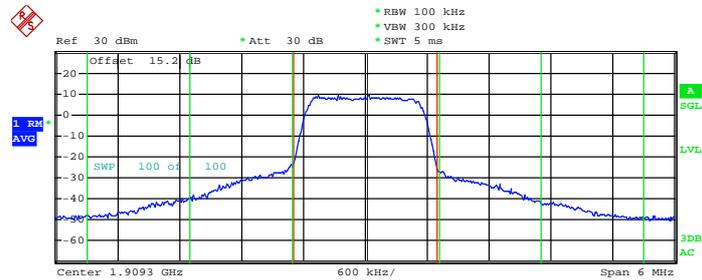
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-30.61 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-37.12 dBm

Date: 13.MAR.2013 15:08:06

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



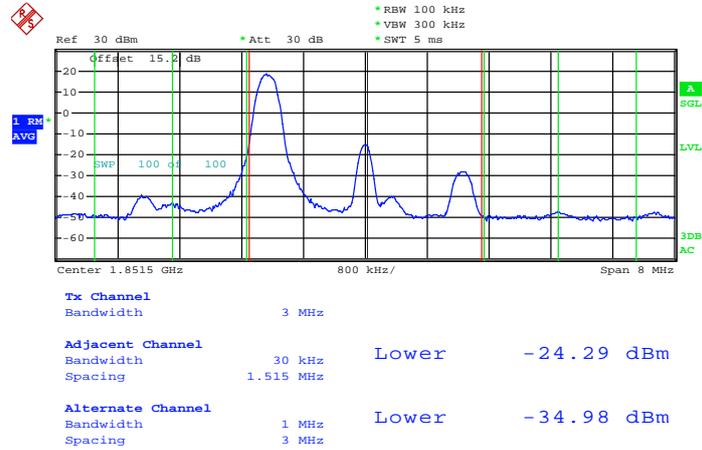
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-35.43 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-35.42 dBm

Date: 13.MAR.2013 15:09:00



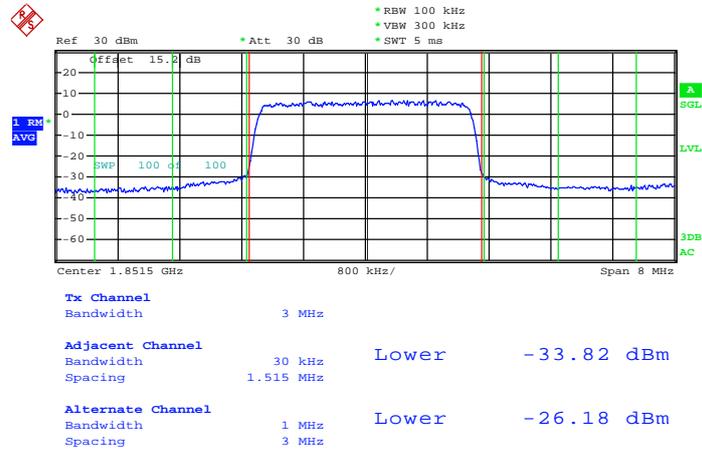
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / QPSK
---------------	------------	--------------------	-------------

**Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0**



Date: 13.MAR.2013 15:12:26

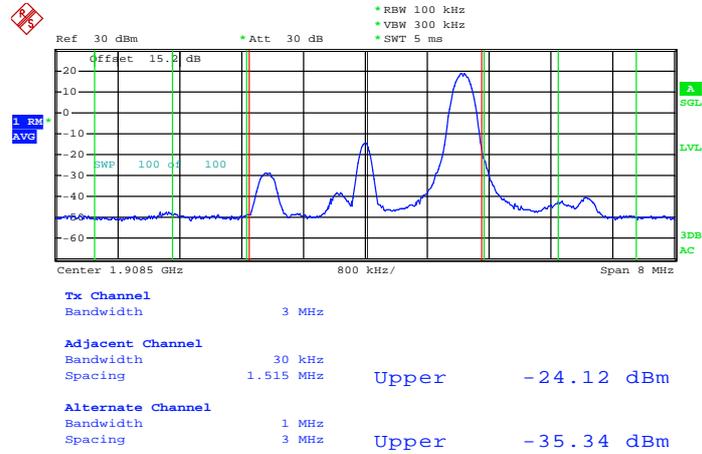
**Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0**



Date: 13.MAR.2013 15:12:56

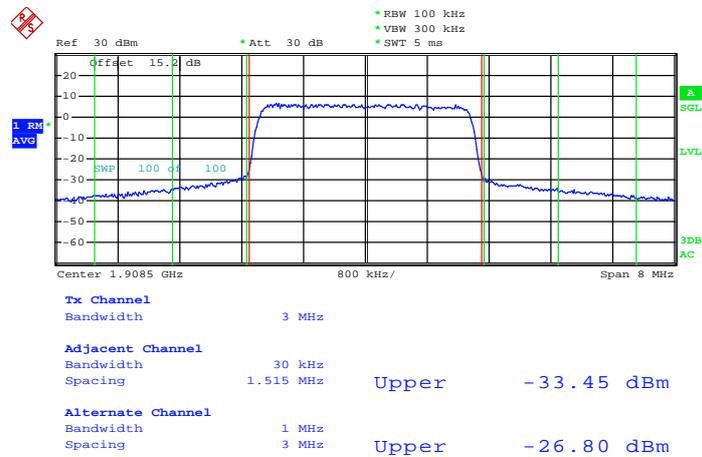


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



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

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

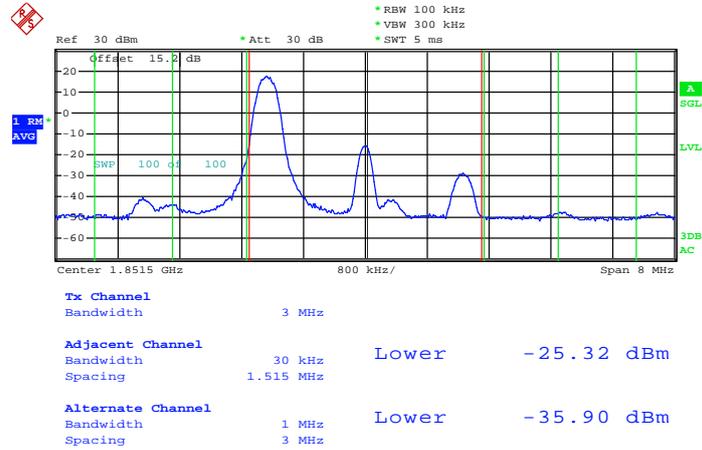


Date: 13.MAR.2013 15:15:25



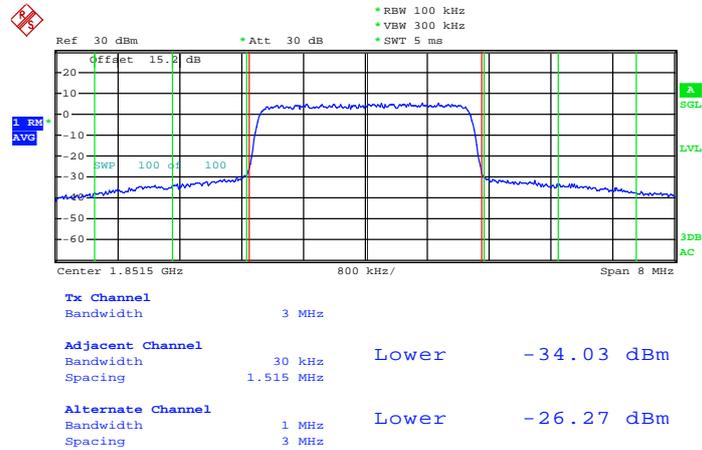
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / 16QAM
---------------	------------	--------------------	--------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 15:12:09

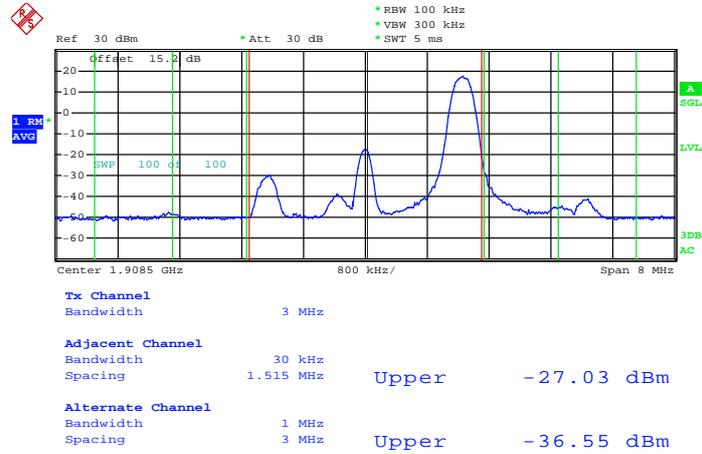
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



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

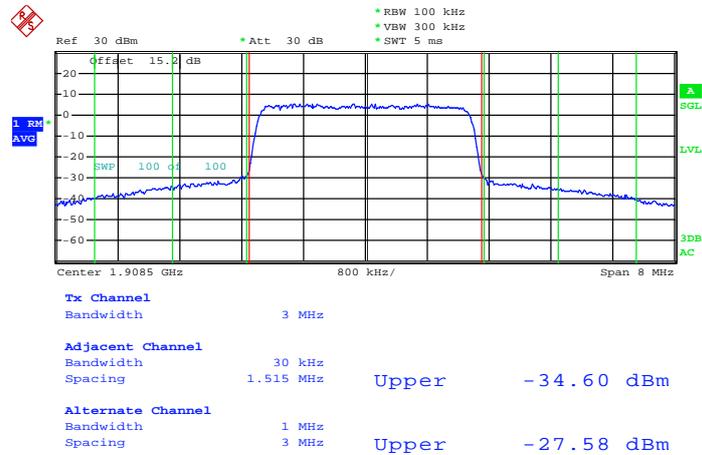


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 13.MAR.2013 15:14:43

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

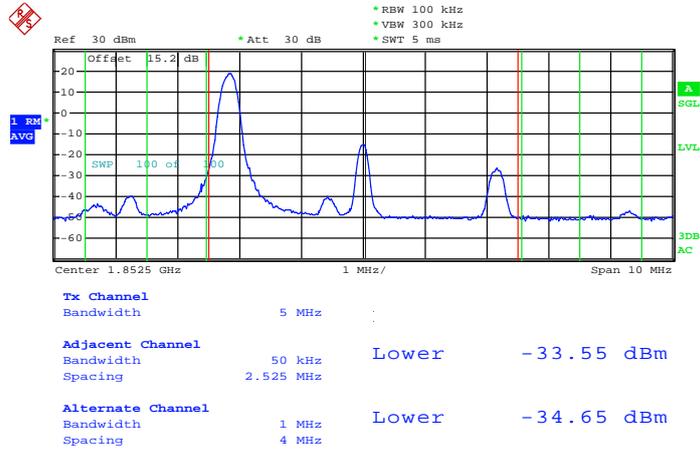


Date: 13.MAR.2013 15:16:18



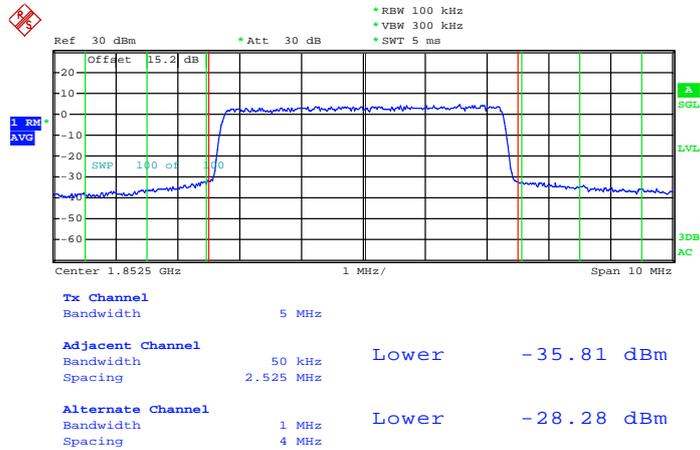
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	5MHz / QPSK
---------------	------------	--------------------	-------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 15:20:04

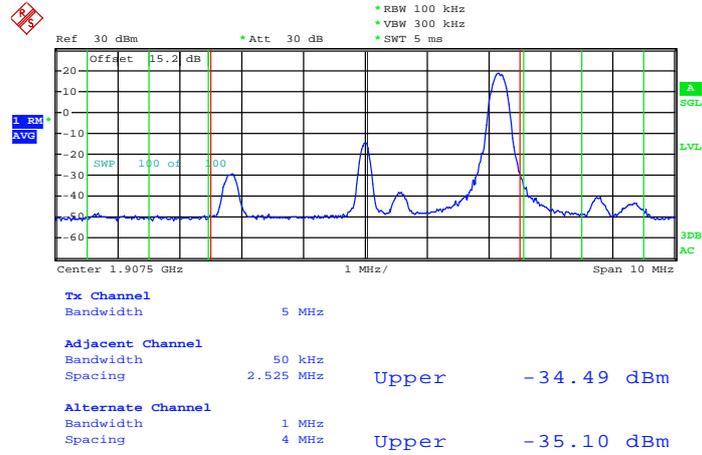
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 13.MAR.2013 15:20:33

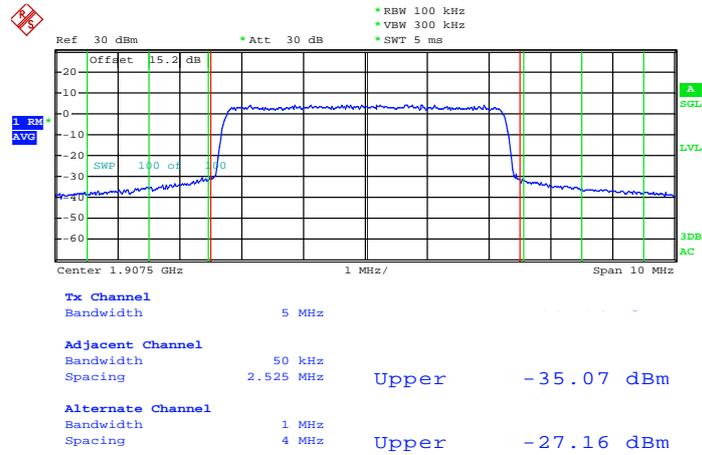


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 13.MAR.2013 15:22:47

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

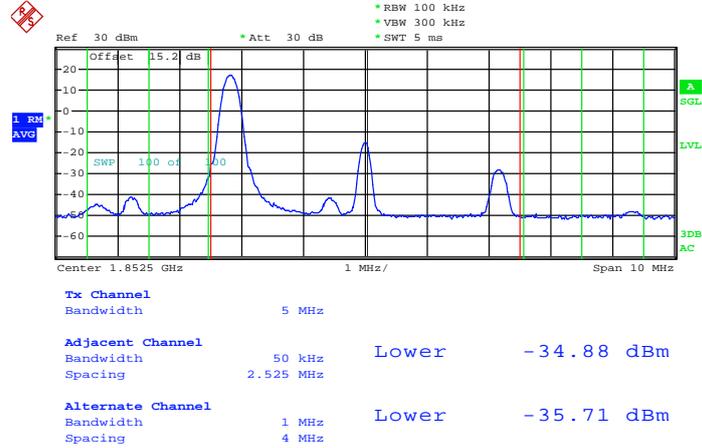


Date: 13.MAR.2013 15:23:11



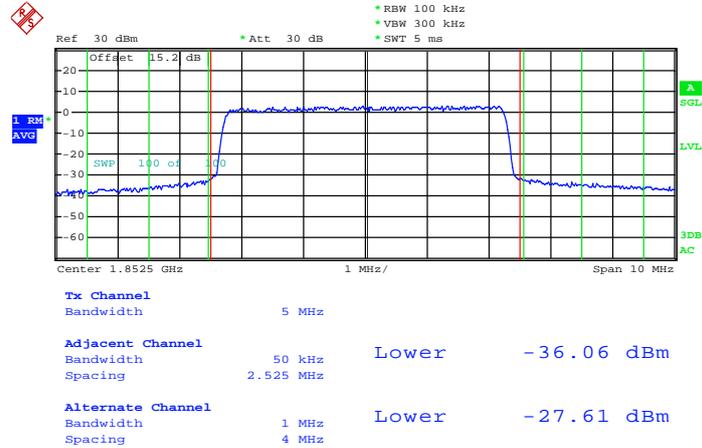
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	5MHz / 16QAM
---------------	------------	--------------------	--------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 15:19:47

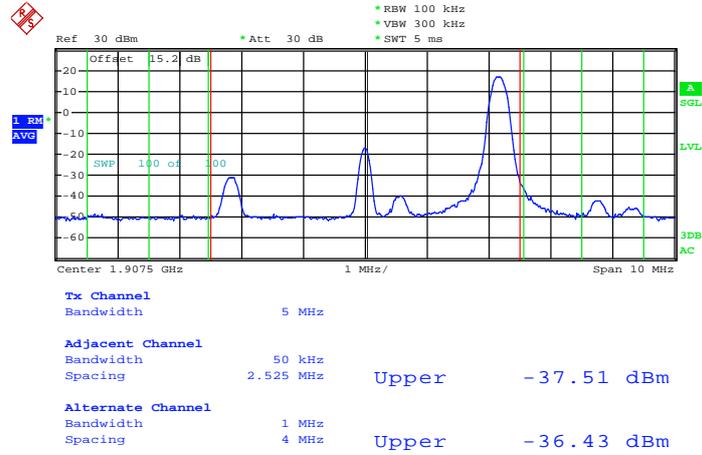
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 13.MAR.2013 15:20:55

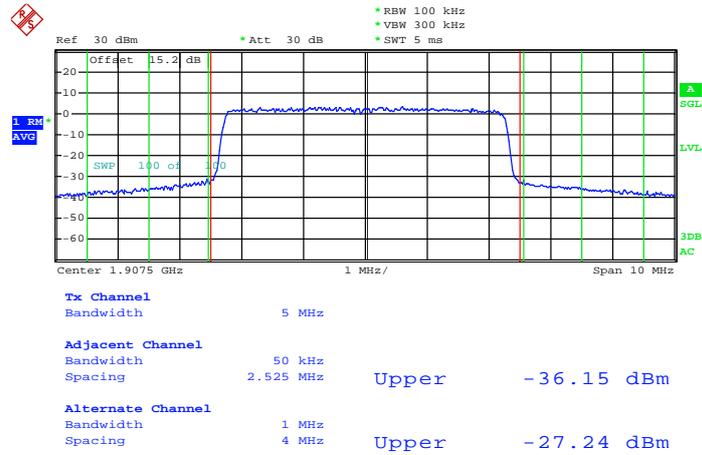


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 13.MAR.2013 15:22:31

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

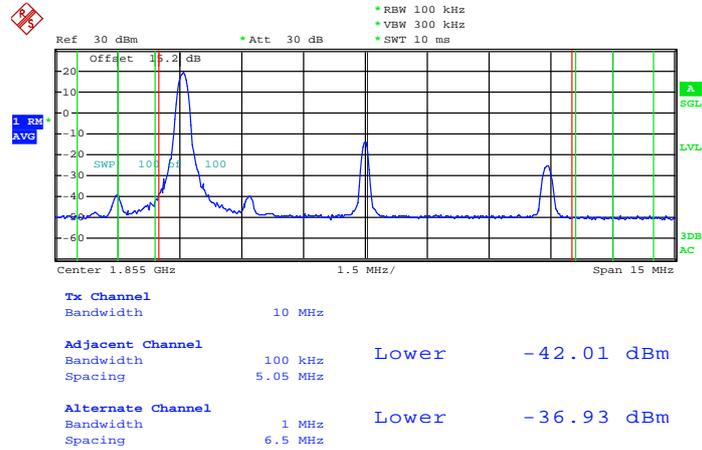


Date: 13.MAR.2013 15:23:27



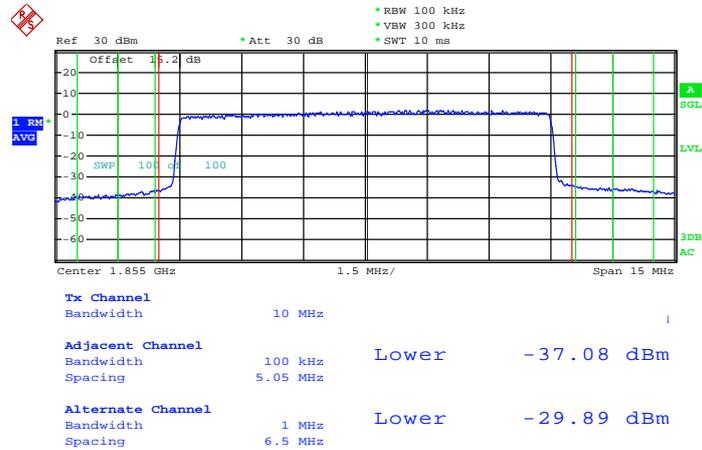
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	10MHz / QPSK
---------------	------------	--------------------	--------------

**Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0**



Date: 13.MAR.2013 15:27:19

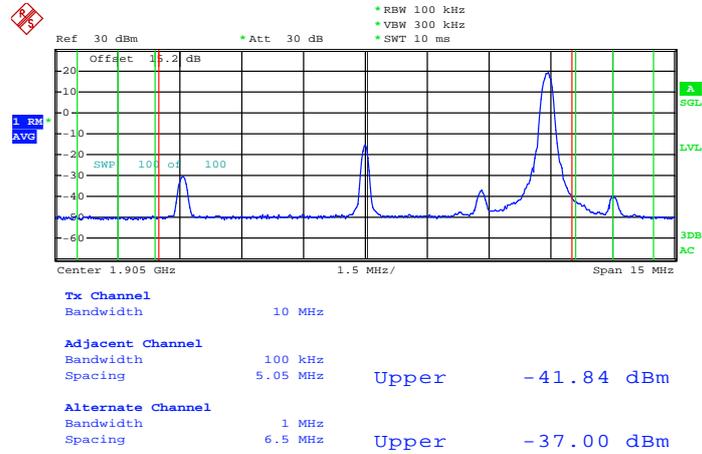
**Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0**



Date: 13.MAR.2013 15:27:42

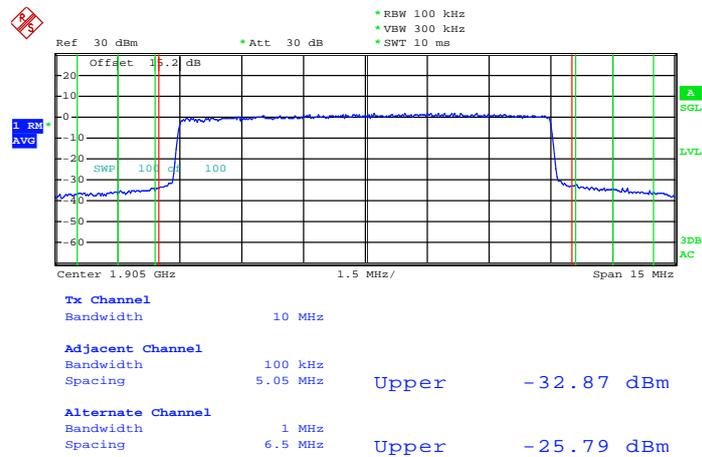


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 13.MAR.2013 15:29:30

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

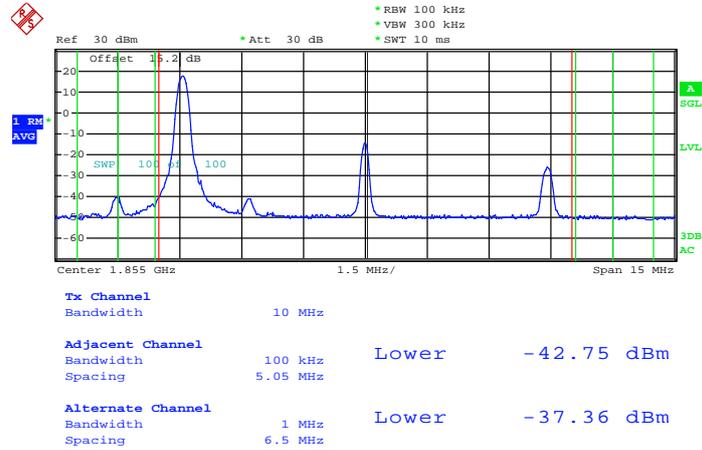


Date: 13.MAR.2013 15:29:52



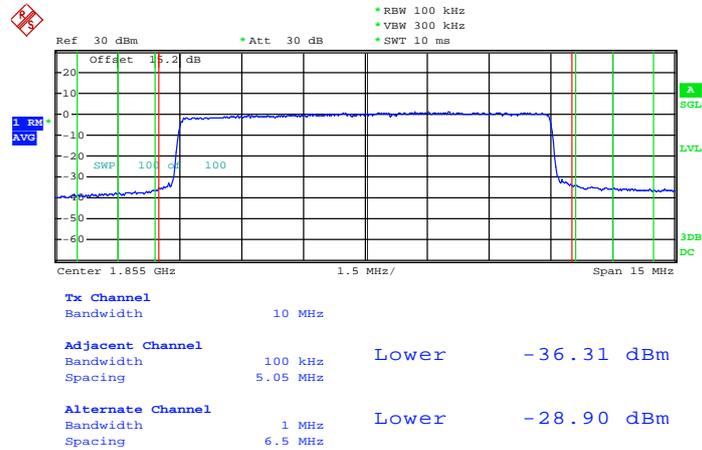
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	10MHz / 16QAM
---------------	------------	--------------------	---------------

**Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0**



Date: 13.MAR.2013 15:27:01

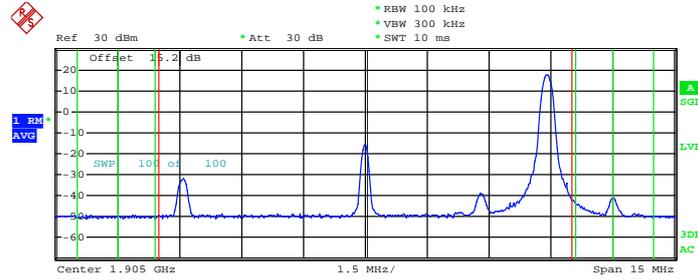
**Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0**



Date: 13.MAR.2013 15:44:28



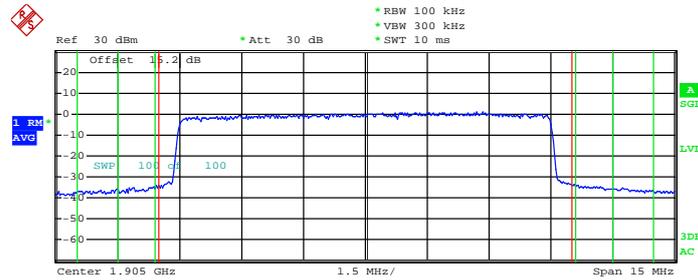
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-42.80 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	6.5 MHz	Upper	-37.75 dBm

Date: 13.MAR.2013 15:29:13

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



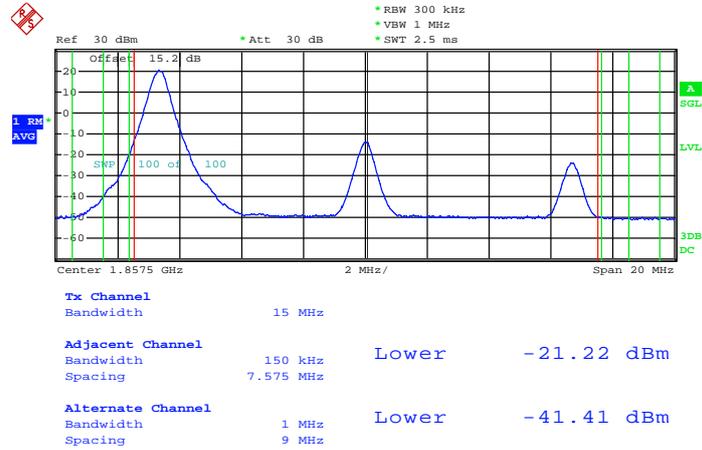
<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-34.16 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	6.5 MHz	Upper	-26.45 dBm

Date: 13.MAR.2013 15:30:14



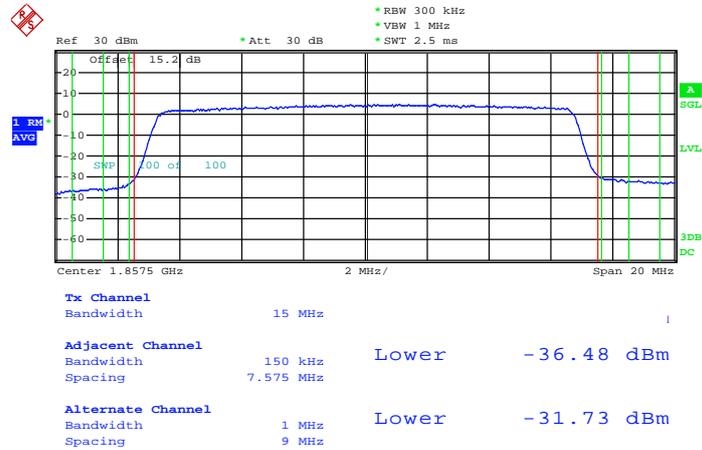
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	15MHz / QPSK
---------------	------------	--------------------	--------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



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

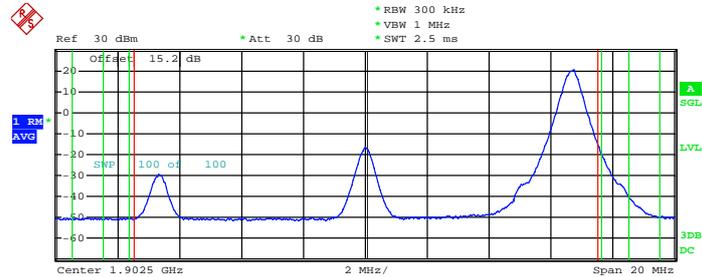
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 13.MAR.2013 15:48:54



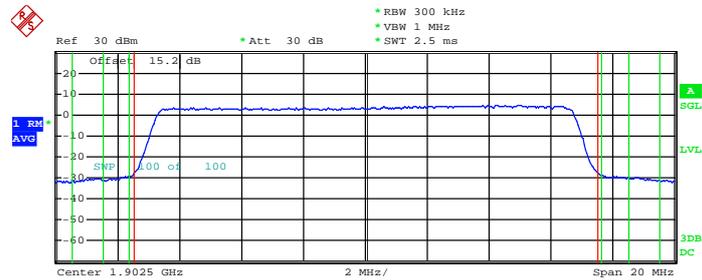
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



**Tx Channel**  
 Bandwidth 15 MHz  
**Adjacent Channel**  
 Bandwidth 150 kHz  
 Spacing 7.575 MHz Upper -20.43 dBm  
**Alternate Channel**  
 Bandwidth 1 MHz  
 Spacing 9 MHz Upper -40.89 dBm

Date: 13.MAR.2013 15:50:20

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



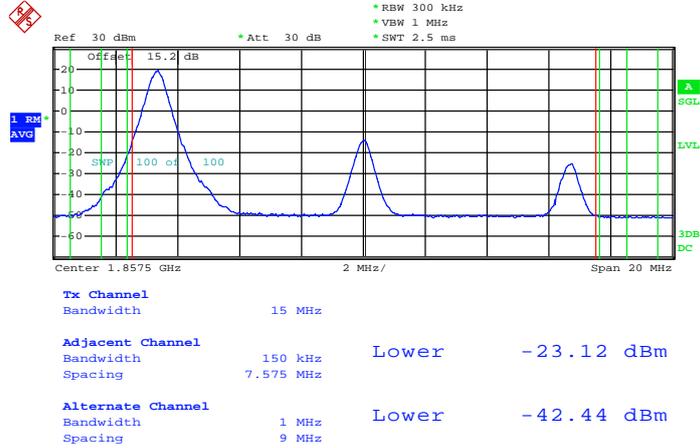
**Tx Channel**  
 Bandwidth 15 MHz  
**Adjacent Channel**  
 Bandwidth 150 kHz  
 Spacing 7.575 MHz Upper -32.06 dBm  
**Alternate Channel**  
 Bandwidth 1 MHz  
 Spacing 9 MHz Upper -26.11 dBm

Date: 13.MAR.2013 15:51:43



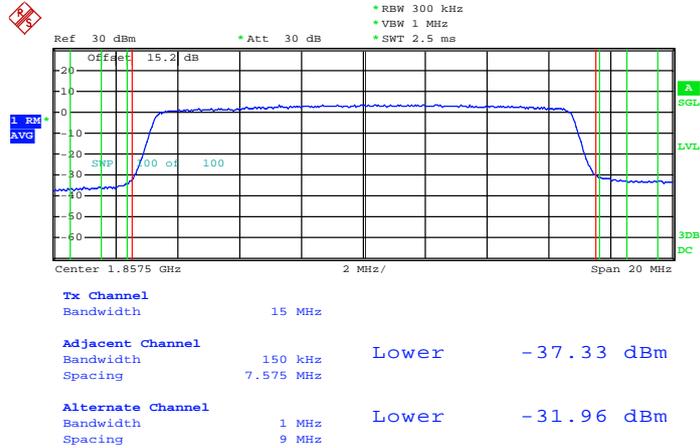
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	15MHz / 16QAM
---------------	------------	--------------------	---------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 15:48:02

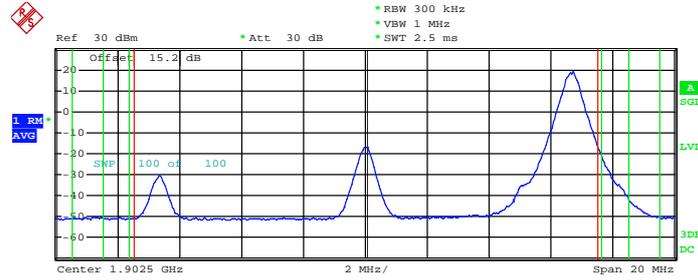
Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



Date: 13.MAR.2013 15:48:40



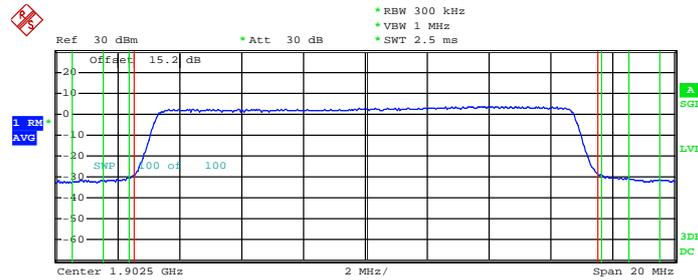
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



<b>Tx Channel</b>			
Bandwidth	15 MHz		
<b>Adjacent Channel</b>			
Bandwidth	150 kHz		
Spacing	7.575 MHz	Upper	-21.88 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	9 MHz	Upper	-41.95 dBm

Date: 13.MAR.2013 15:50:56

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



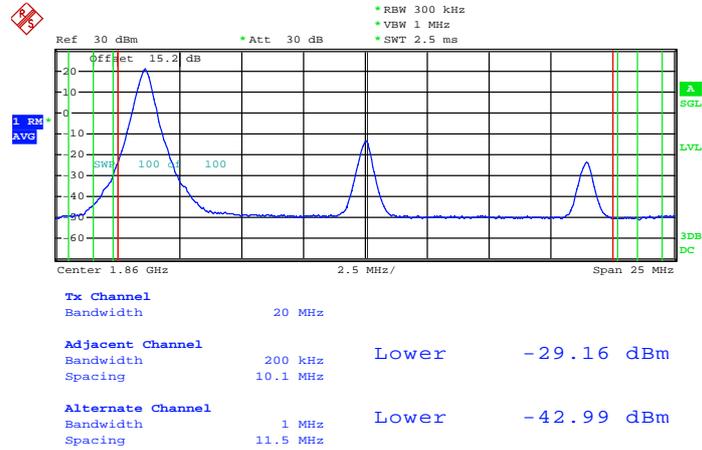
<b>Tx Channel</b>			
Bandwidth	15 MHz		
<b>Adjacent Channel</b>			
Bandwidth	150 kHz		
Spacing	7.575 MHz	Upper	-32.65 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	9 MHz	Upper	-27.12 dBm

Date: 13.MAR.2013 15:51:28



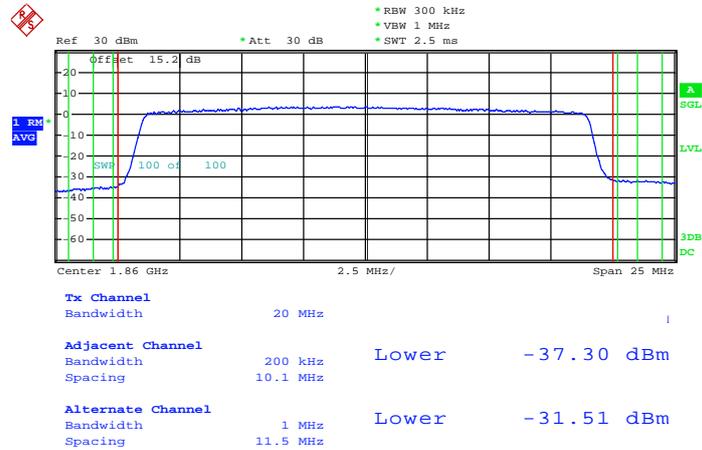
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / QPSK
---------------	------------	--------------------	--------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 15:56:43

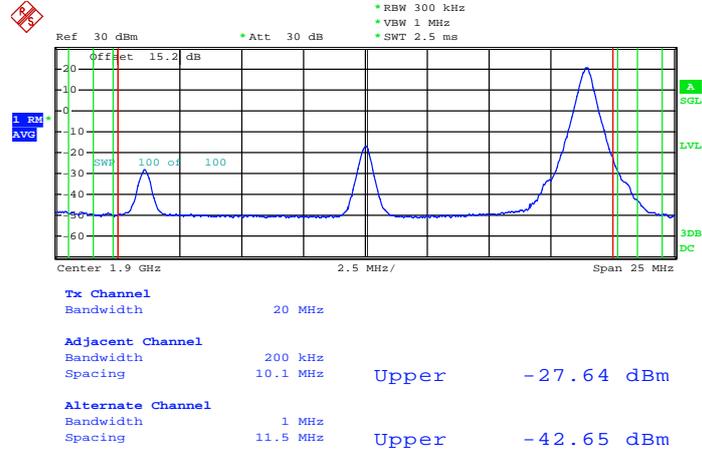
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 13.MAR.2013 15:57:47

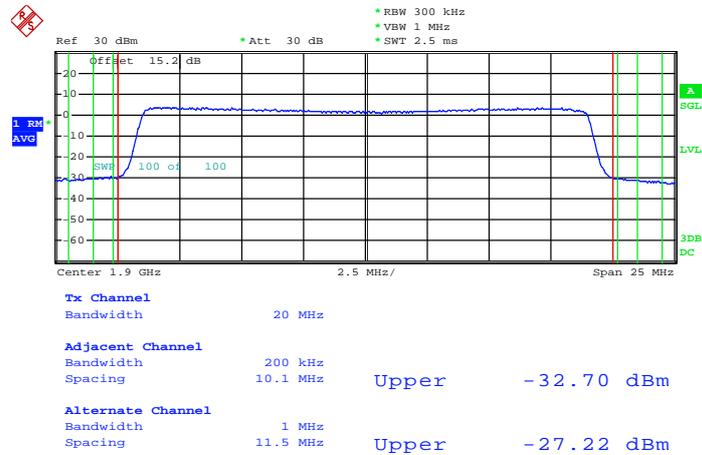


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



Date: 13.MAR.2013 15:59:06

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

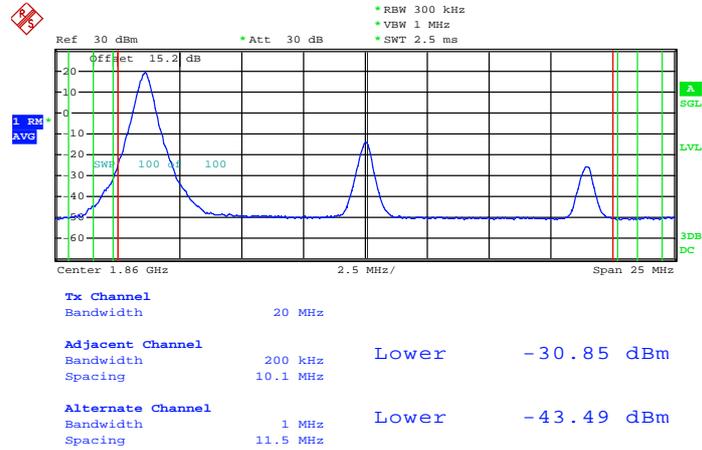


Date: 13.MAR.2013 16:03:58



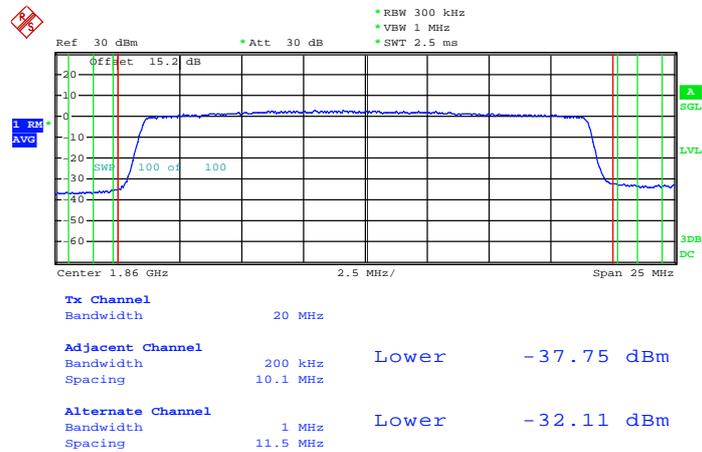
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / 16QAM
---------------	------------	--------------------	---------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 15:57:08

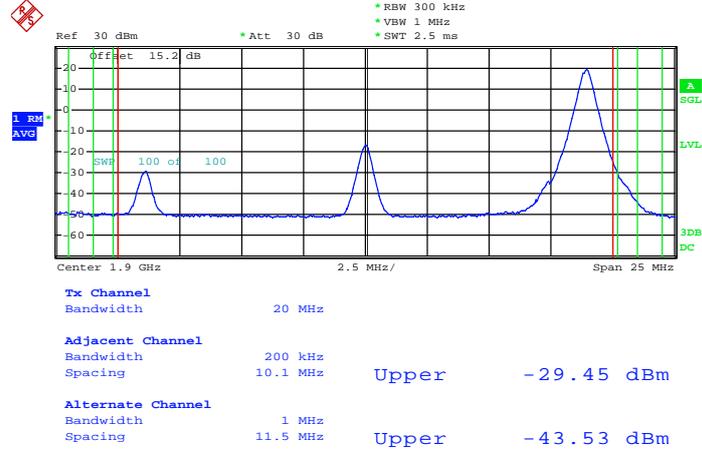
Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



Date: 13.MAR.2013 15:57:35

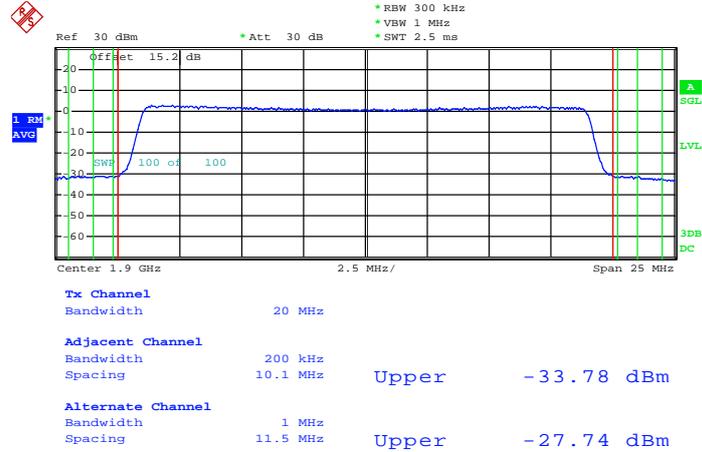


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



Date: 13.MAR.2013 15:59:21

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

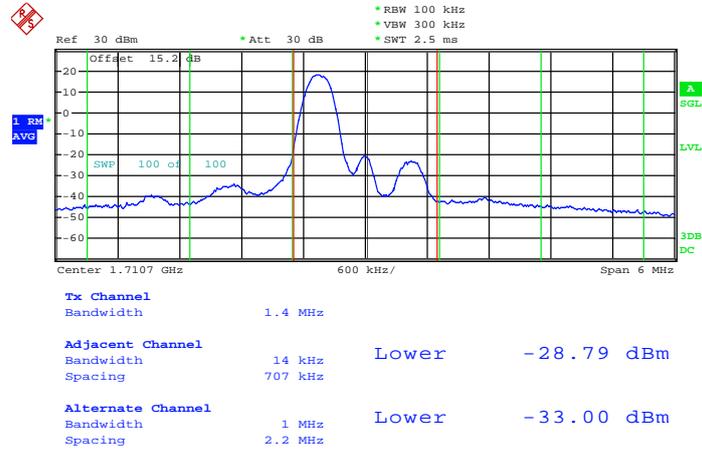


Date: 13.MAR.2013 16:00:19



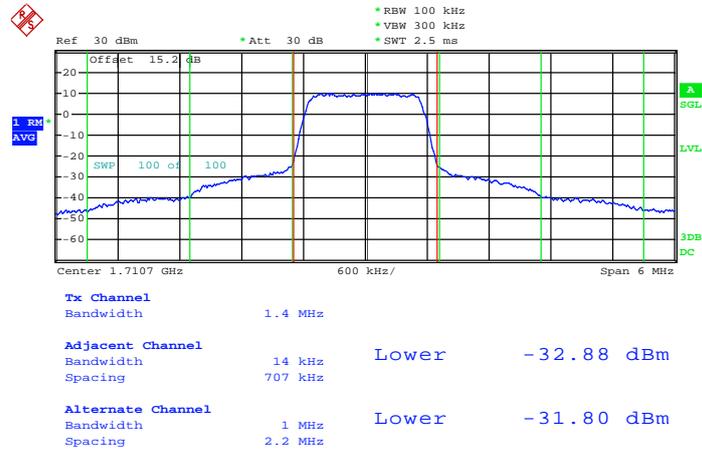
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / QPSK
---------------	------------	--------------------	---------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 16:11:03

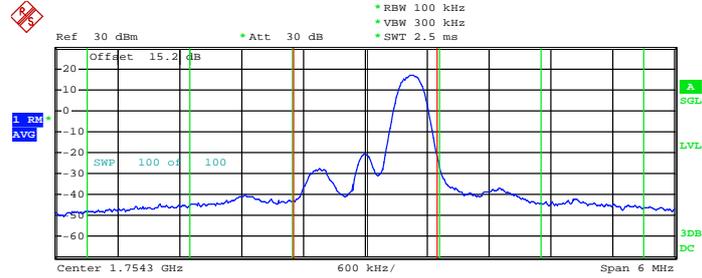
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 13.MAR.2013 16:11:22



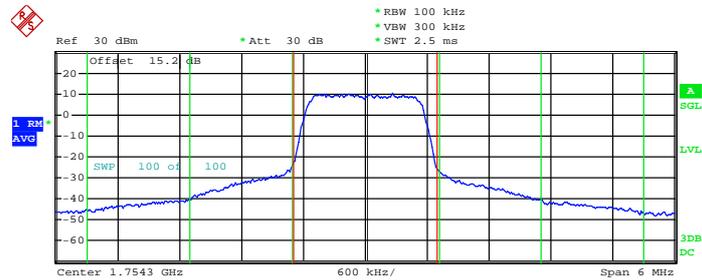
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-31.27 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-34.83 dBm

Date: 13.MAR.2013 16:12:54

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



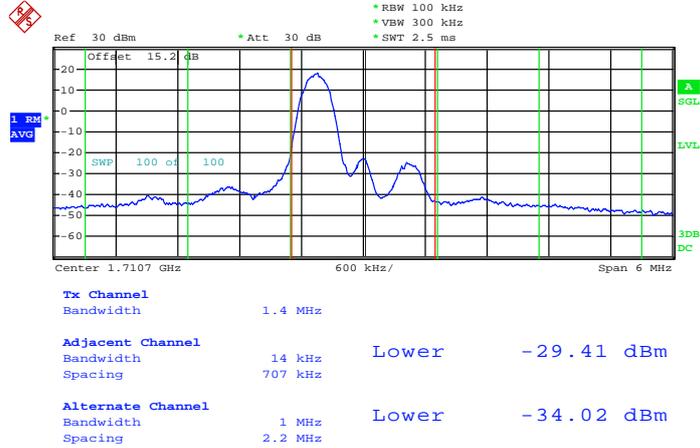
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-35.28 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-33.66 dBm

Date: 13.MAR.2013 16:13:29



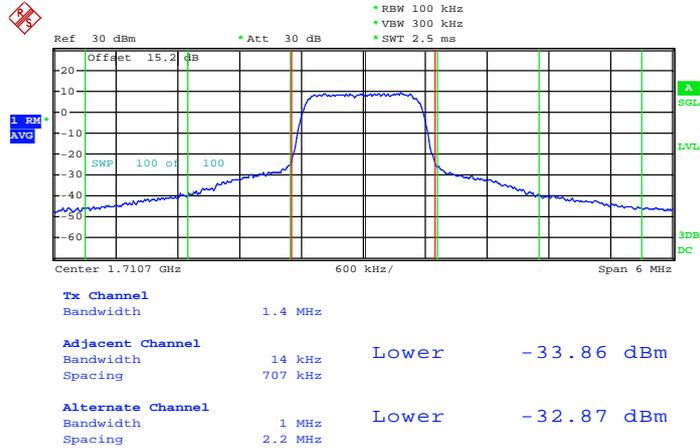
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / 16QAM
---------------	------------	--------------------	----------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 16:10:51

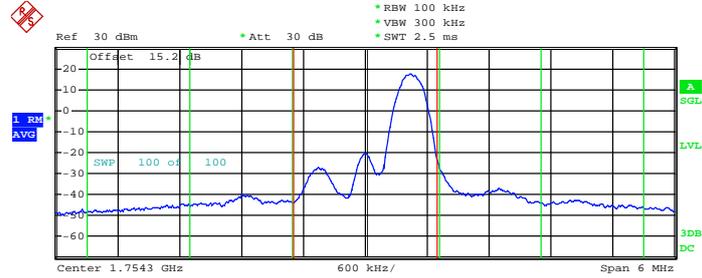
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 13.MAR.2013 16:11:34



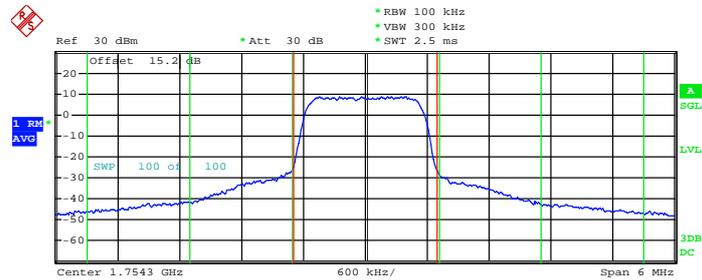
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-32.77 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-34.78 dBm

Date: 13.MAR.2013 16:12:42

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



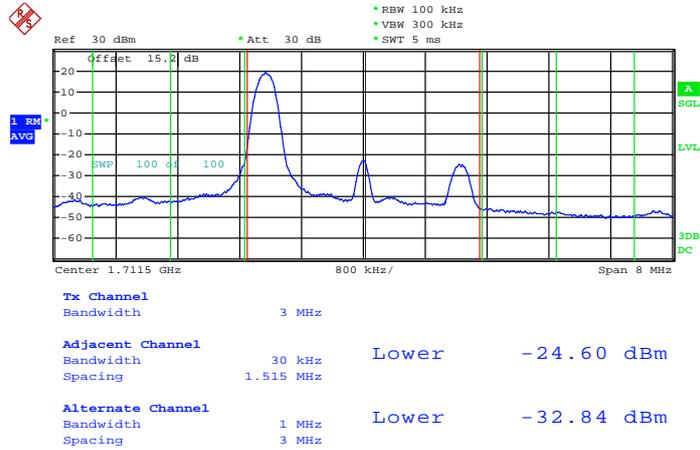
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-35.74 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	2.2 MHz	Upper	-34.78 dBm

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



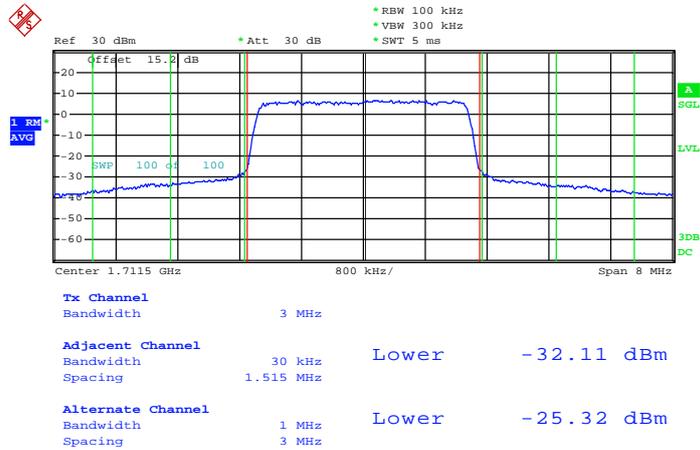
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	3MHz / QPSK
---------------	------------	--------------------	-------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 16:17:11

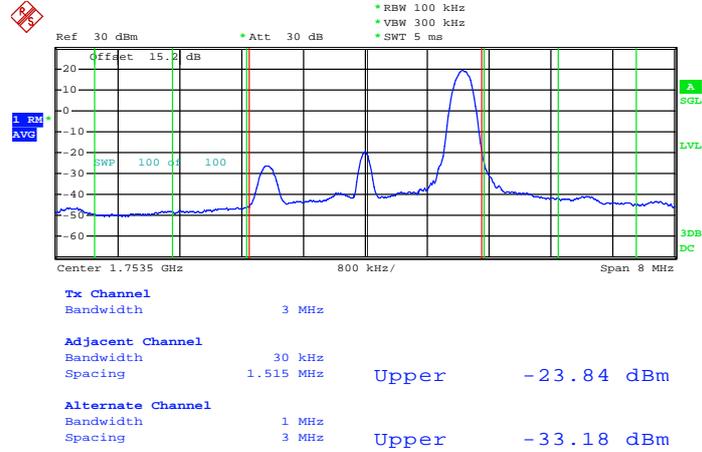
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 13.MAR.2013 16:17:56

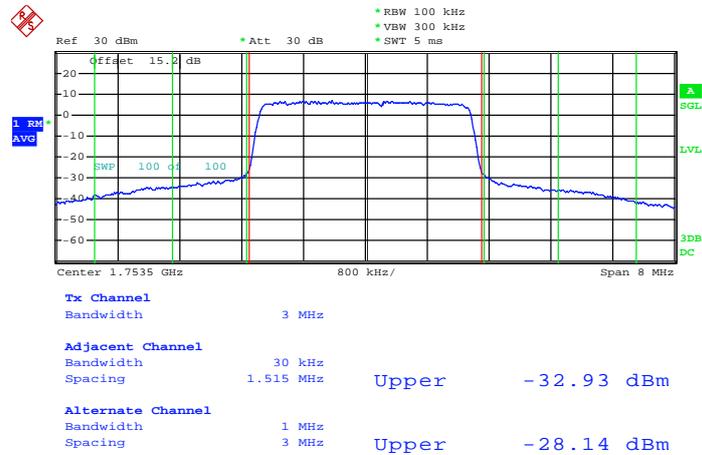


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 13.MAR.2013 16:19:17

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

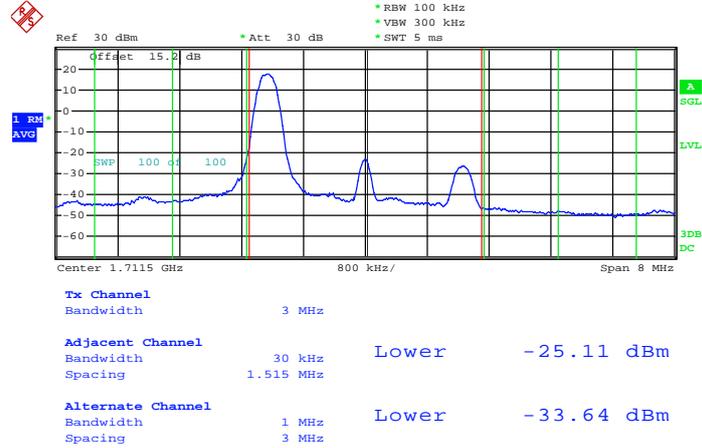


Date: 13.MAR.2013 16:29:34



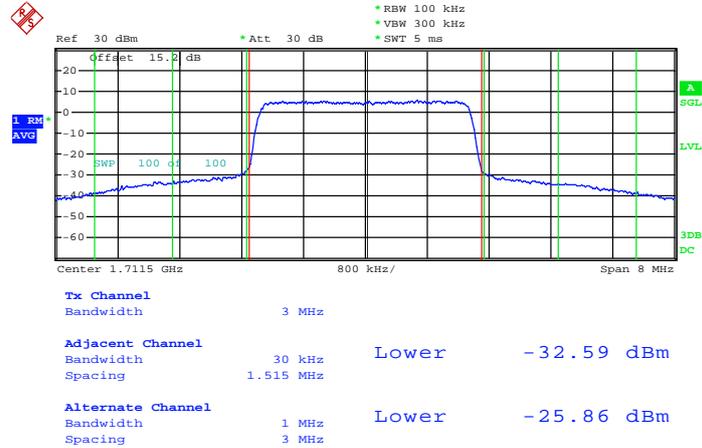
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	3MHz / 16QAM
---------------	------------	--------------------	--------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 16:17:26

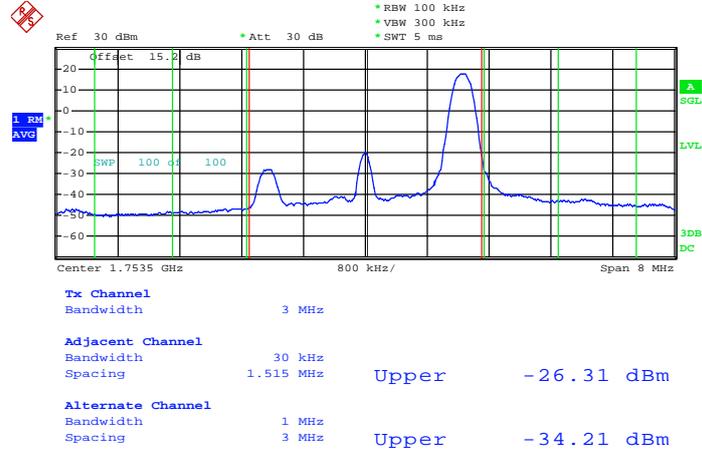
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 13.MAR.2013 16:17:44

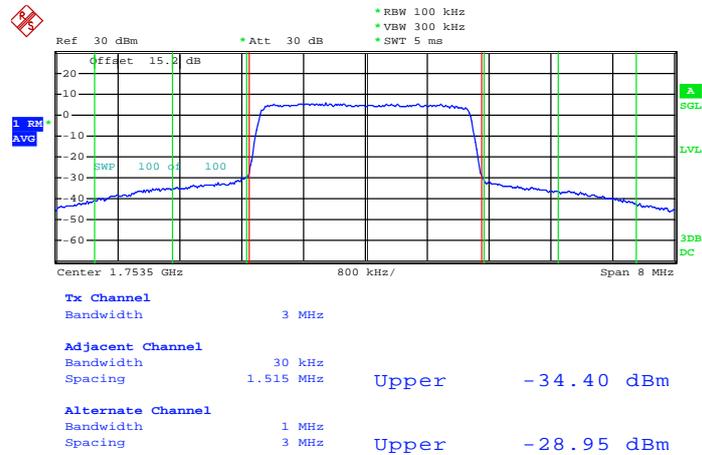


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 13.MAR.2013 16:19:28

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

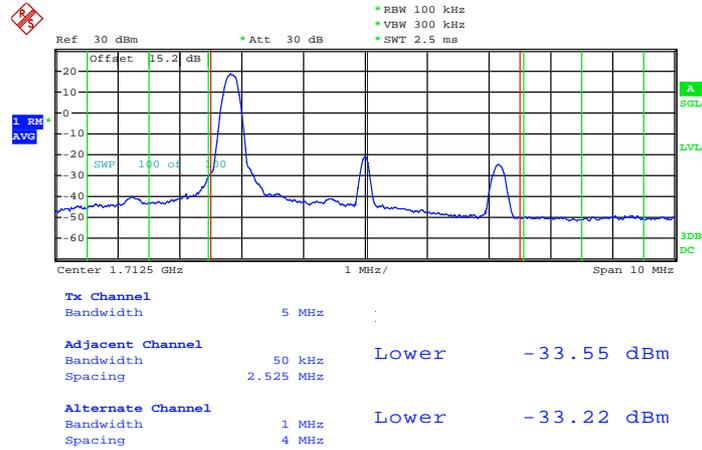


Date: 13.MAR.2013 16:28:41



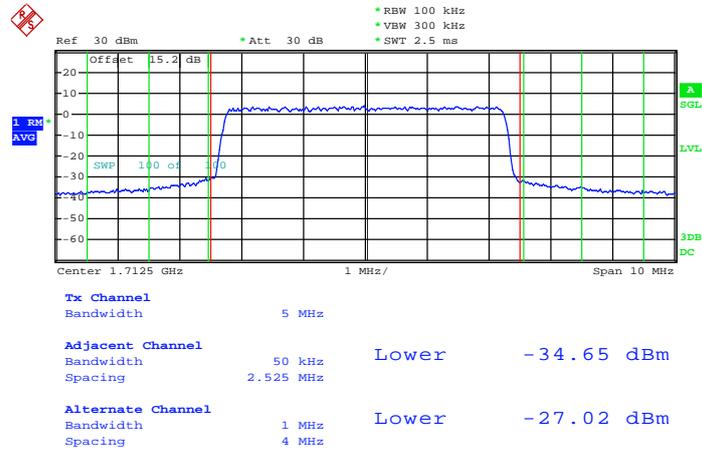
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	5MHz / QPSK
---------------	------------	--------------------	-------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 16:38:27

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



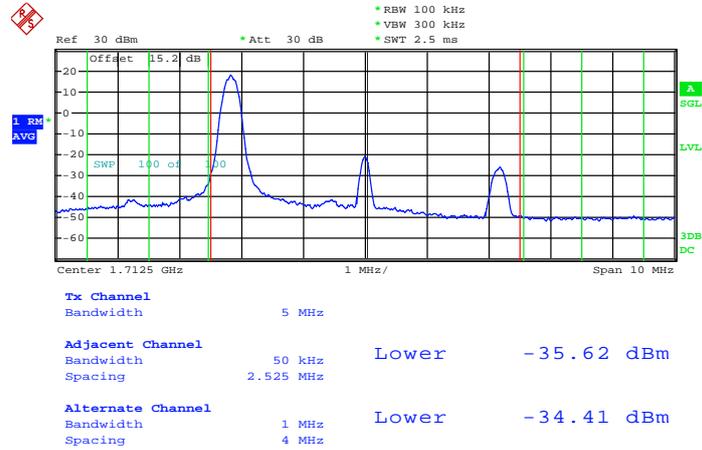
Date: 13.MAR.2013 16:43:32





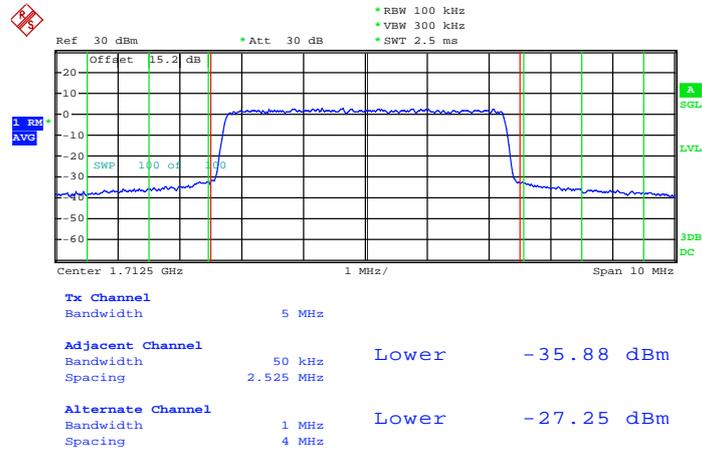
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	5MHz / 16QAM
---------------	------------	--------------------	--------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 16:38:40

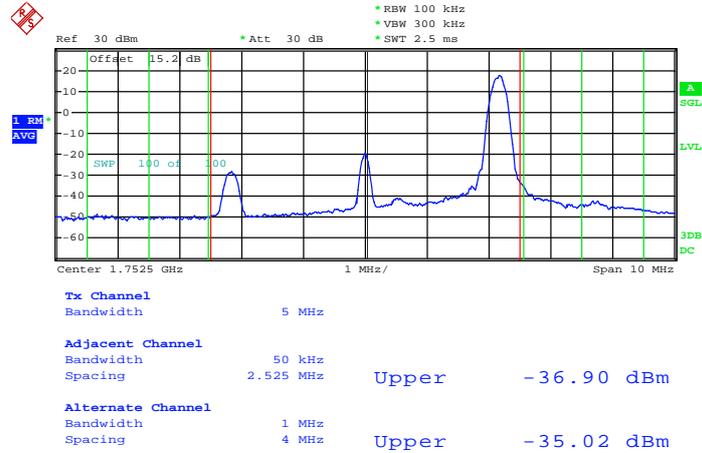
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 13.MAR.2013 16:42:44

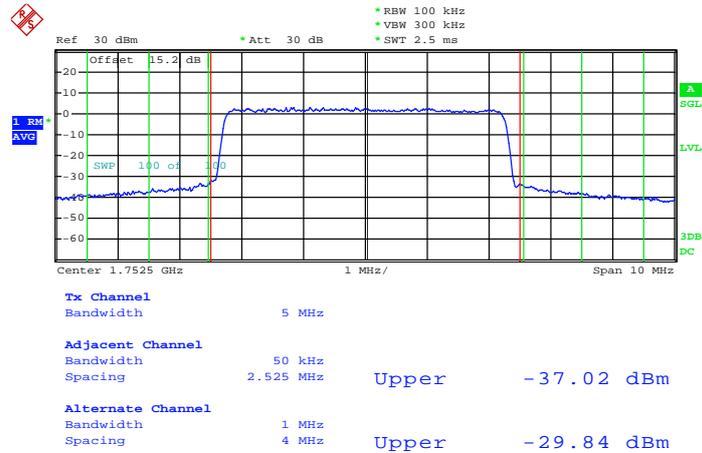


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 13.MAR.2013 16:44:55

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

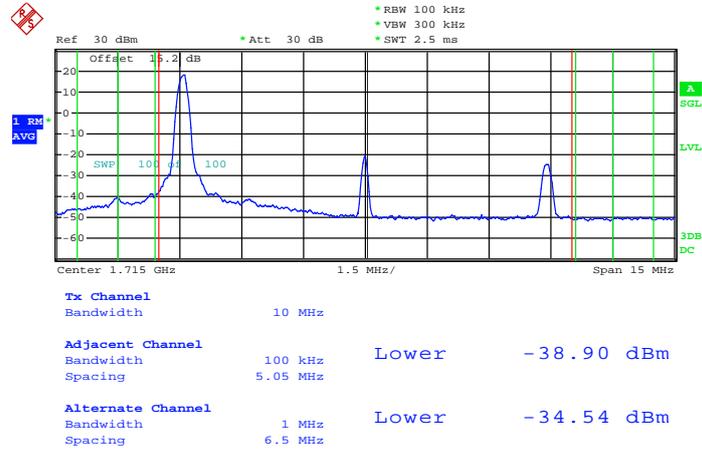


Date: 13.MAR.2013 16:45:12



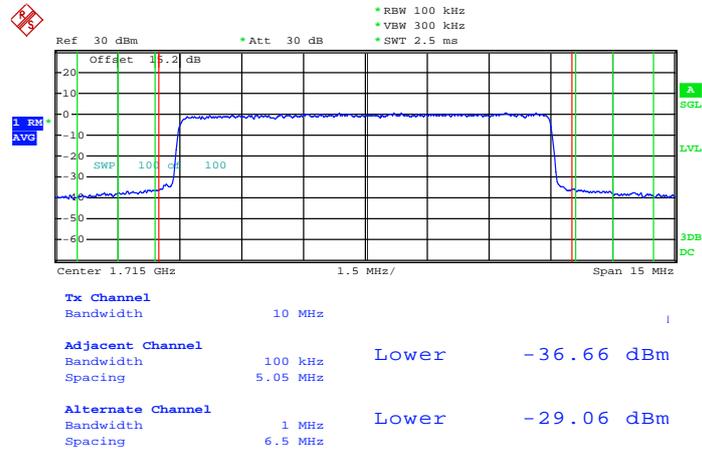
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	10MHz / QPSK
---------------	------------	--------------------	--------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 17:20:17

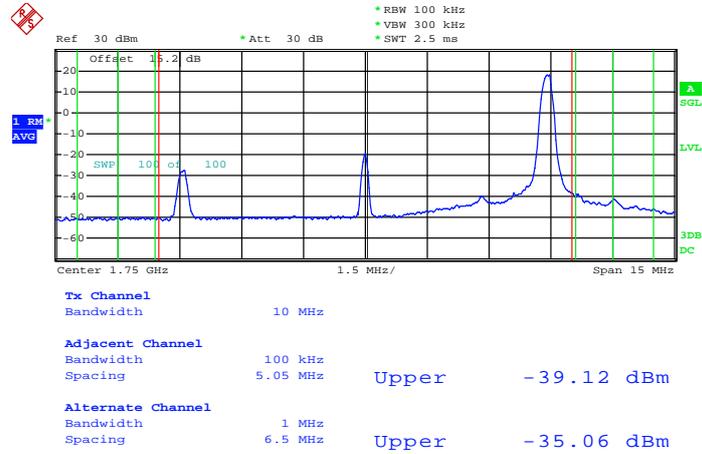
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 13.MAR.2013 17:21:16

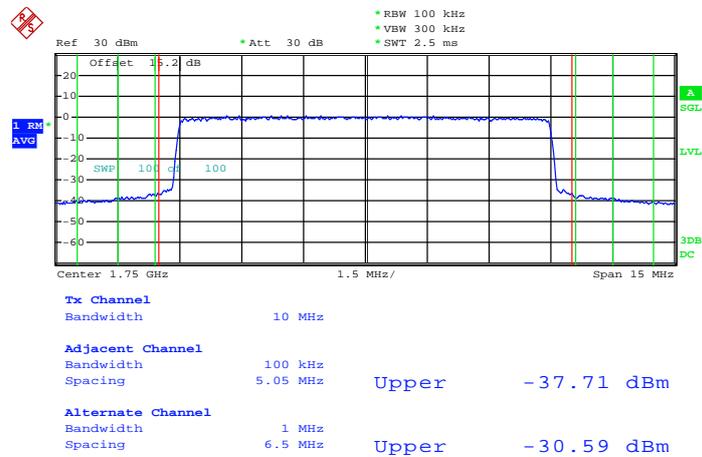


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 13.MAR.2013 17:22:04

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

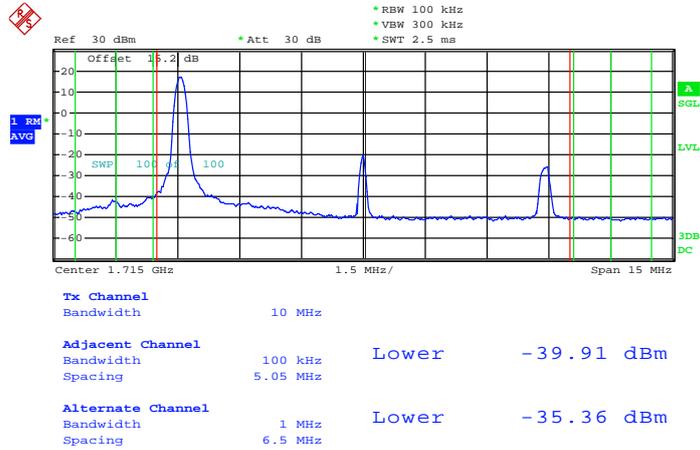


Date: 13.MAR.2013 17:22:55



<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	10MHz / 16QAM
---------------	------------	--------------------	---------------

**Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0**



Date: 13.MAR.2013 17:20:32

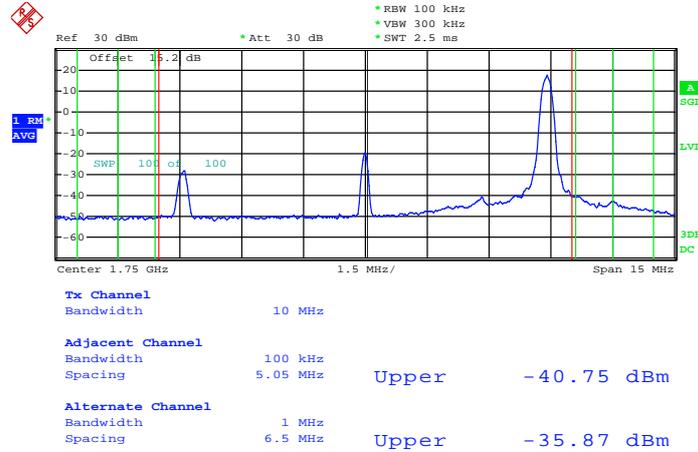
**Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0**



Date: 13.MAR.2013 17:20:58

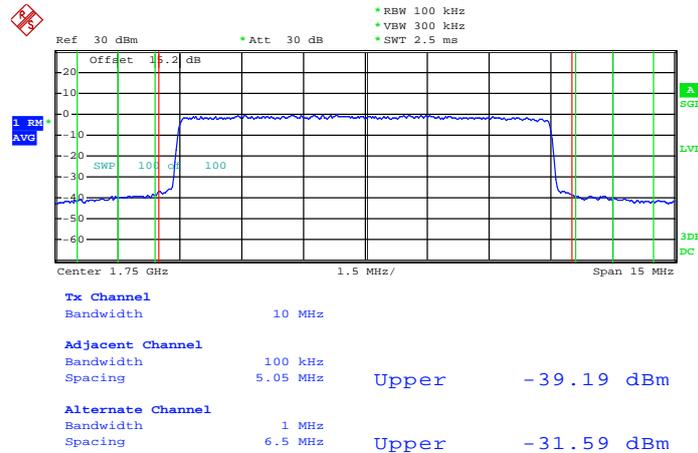


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 13.MAR.2013 17:22:26

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

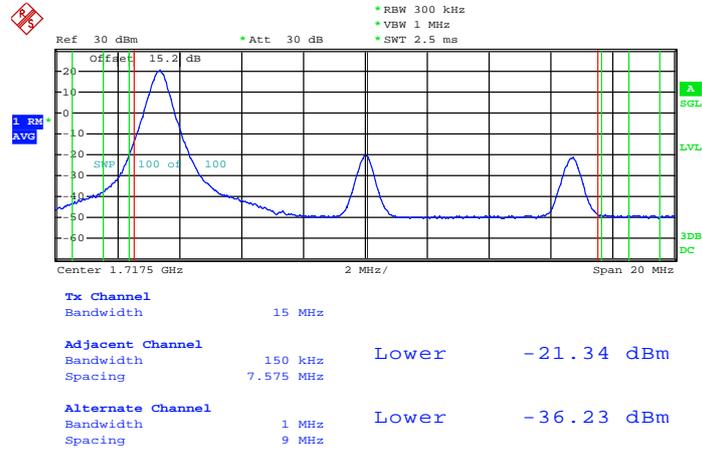


Date: 13.MAR.2013 17:22:39



<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	15MHz / QPSK
---------------	------------	--------------------	--------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 17:25:58

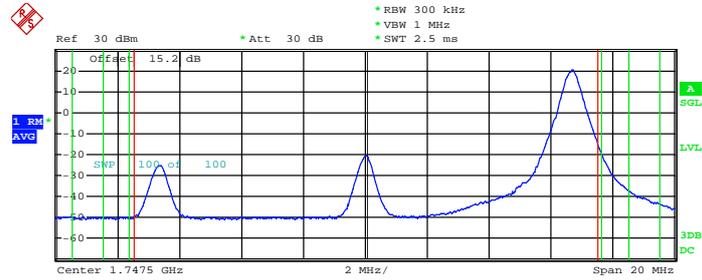
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 13.MAR.2013 17:26:54



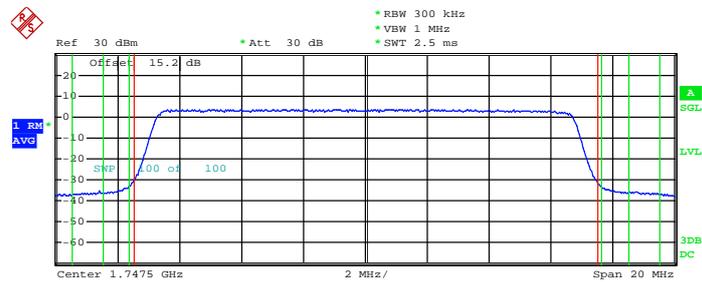
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



<b>Tx Channel</b>			
Bandwidth	15 MHz		
<b>Adjacent Channel</b>			
Bandwidth	150 kHz		
Spacing	7.575 MHz	Upper	-20.19 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	9 MHz	Upper	-35.95 dBm

Date: 13.MAR.2013 17:28:01

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



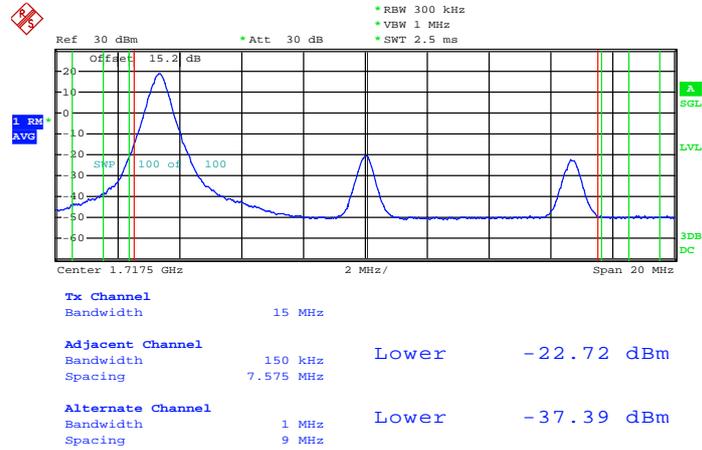
<b>Tx Channel</b>			
Bandwidth	15 MHz		
<b>Adjacent Channel</b>			
Bandwidth	150 kHz		
Spacing	7.575 MHz	Upper	-35.93 dBm
<b>Alternate Channel</b>			
Bandwidth	1 MHz		
Spacing	9 MHz	Upper	-31.88 dBm

Date: 13.MAR.2013 17:28:50



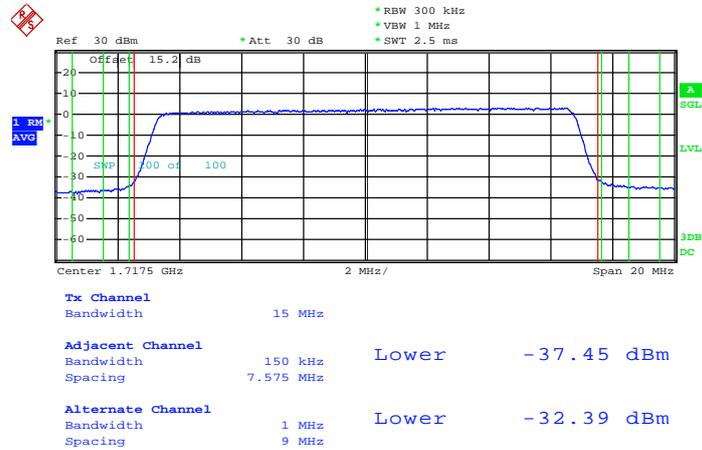
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	15MHz / 16QAM
---------------	------------	--------------------	---------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 17:26:24

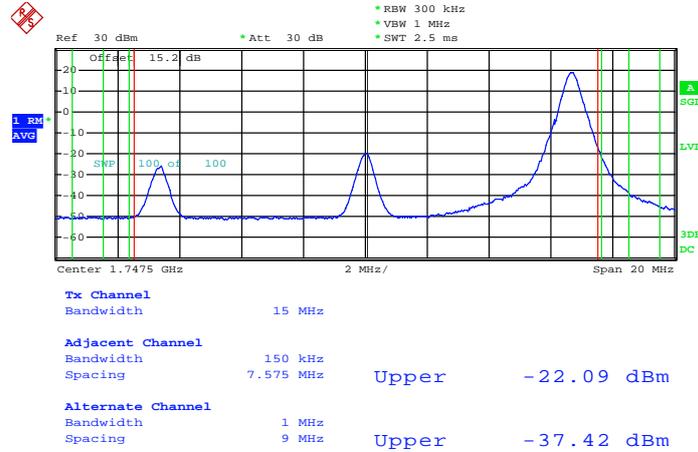
Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



Date: 13.MAR.2013 17:26:41

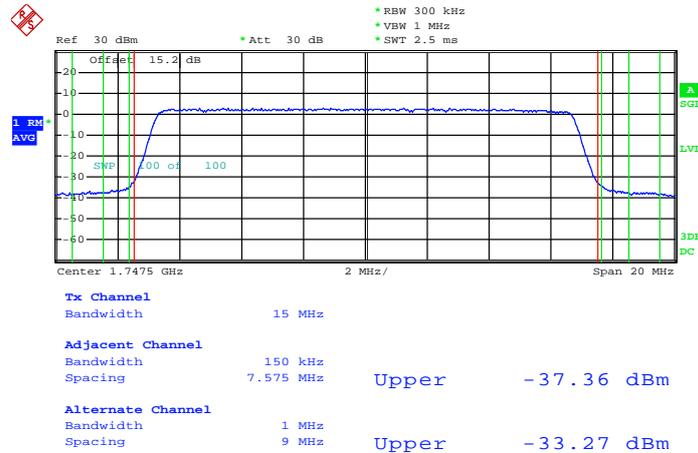


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



Date: 13.MAR.2013 17:28:19

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

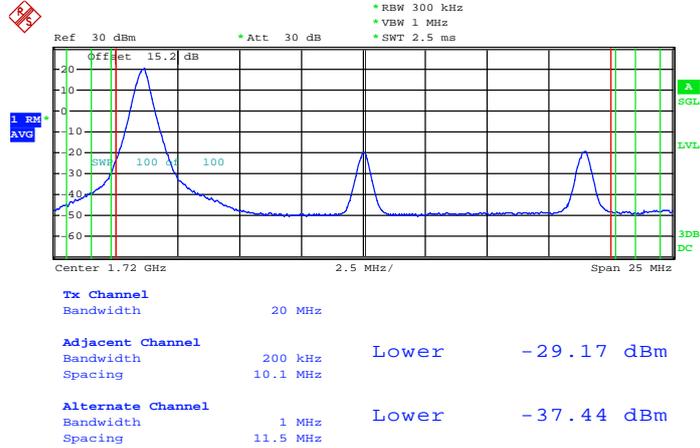


Date: 13.MAR.2013 17:28:37



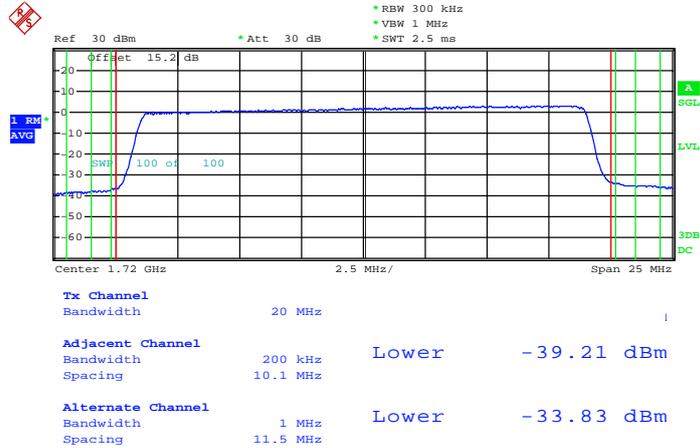
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / QPSK
---------------	------------	--------------------	--------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 17:33:08

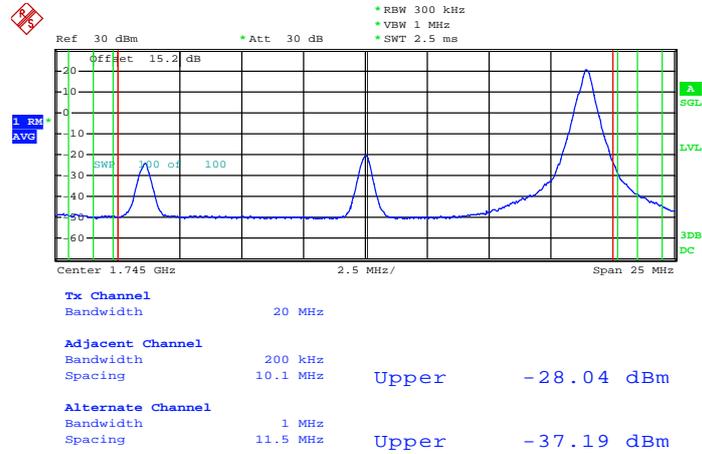
Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



Date: 13.MAR.2013 17:34:29

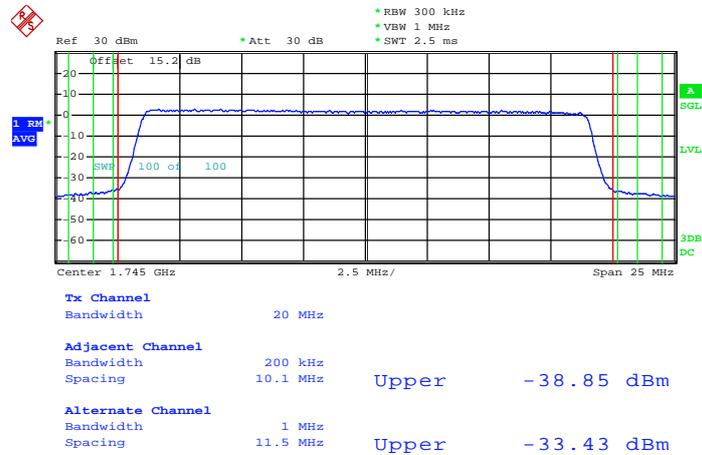


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



Date: 13.MAR.2013 17:37:26

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

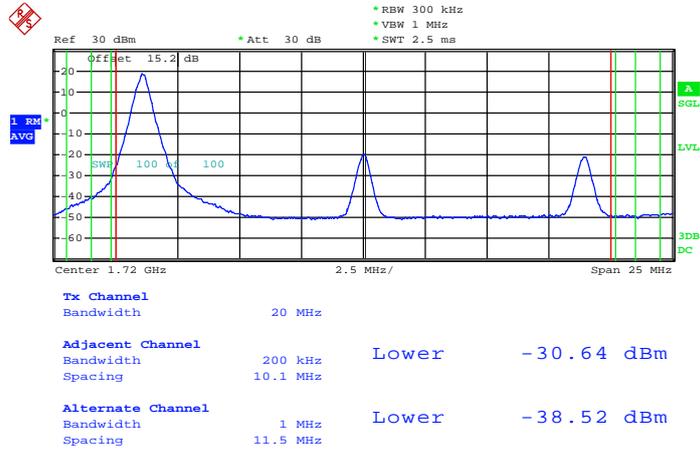


Date: 13.MAR.2013 17:37:46



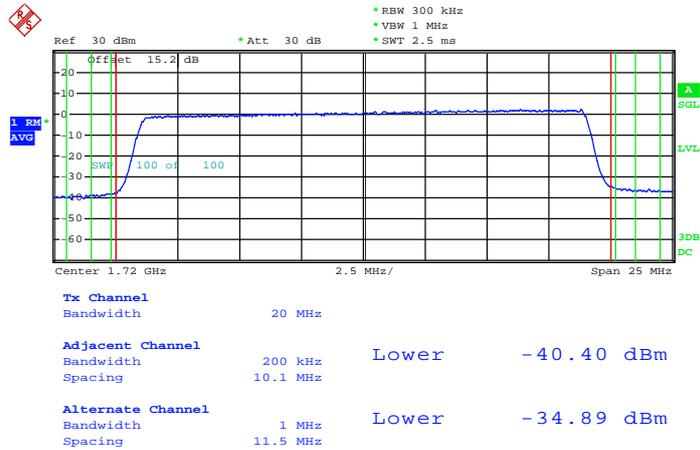
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / 16QAM
---------------	------------	--------------------	---------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 17:33:49

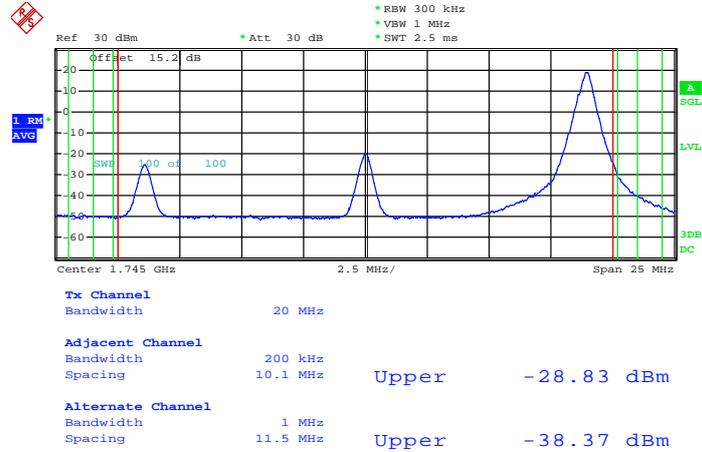
Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



Date: 13.MAR.2013 17:34:41

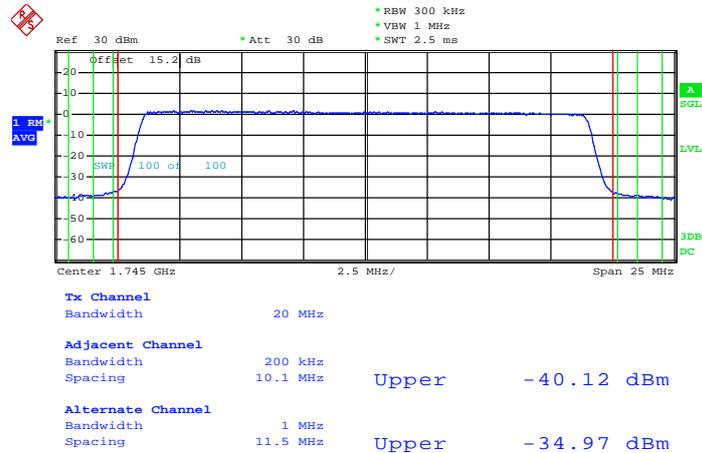


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



Date: 13.MAR.2013 17:37:15

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

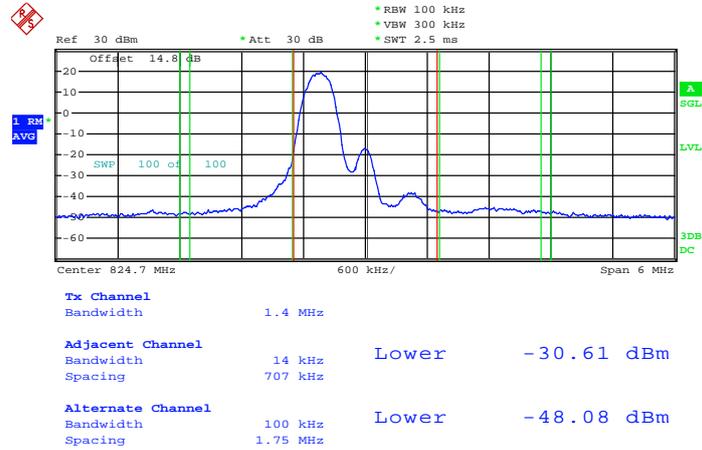


Date: 13.MAR.2013 17:38:02



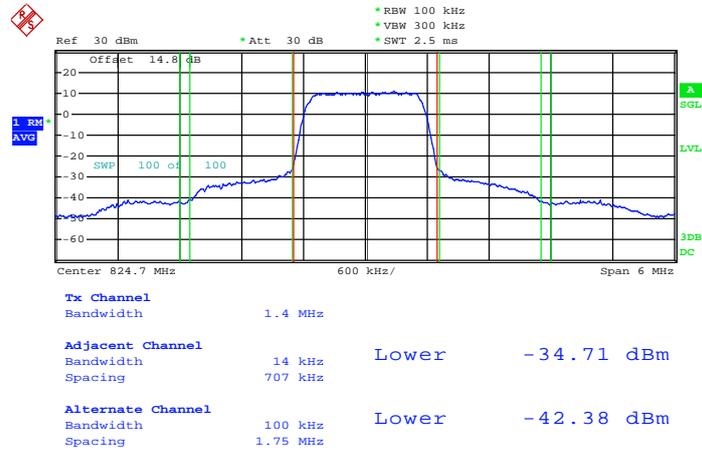
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	1.4MHz / QPSK
---------------	------------	--------------------	---------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 17:55:22

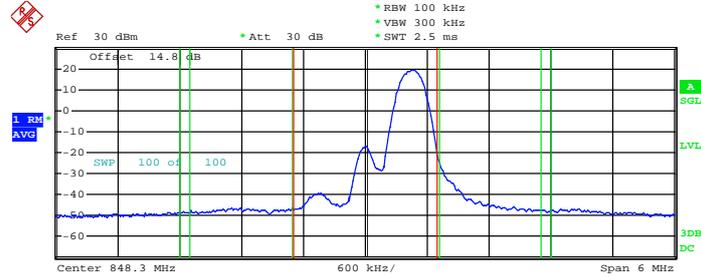
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 13.MAR.2013 17:56:42



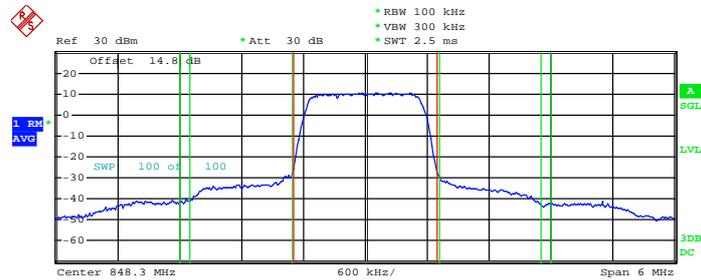
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



<b>Tx Channel</b>	Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>	Bandwidth	14 kHz		
	Spacing	707 kHz	Upper	-29.90 dBm
<b>Alternate Channel</b>	Bandwidth	100 kHz		
	Spacing	1.75 MHz	Upper	-47.93 dBm

Date: 13.MAR.2013 17:59:29

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



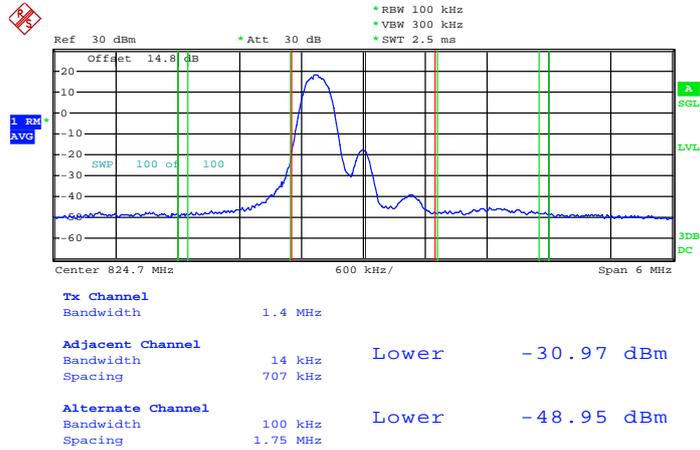
<b>Tx Channel</b>	Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>	Bandwidth	14 kHz		
	Spacing	707 kHz	Upper	-36.52 dBm
<b>Alternate Channel</b>	Bandwidth	100 kHz		
	Spacing	1.75 MHz	Upper	-42.86 dBm

Date: 13.MAR.2013 18:00:48



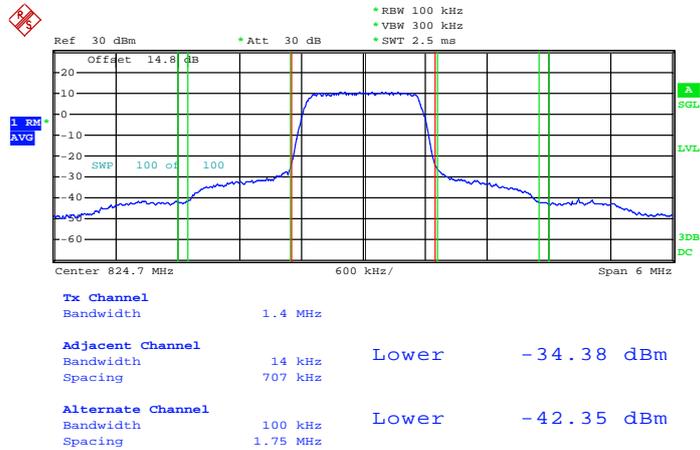
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	1.4MHz / 16QAM
---------------	------------	--------------------	----------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 17:55:09

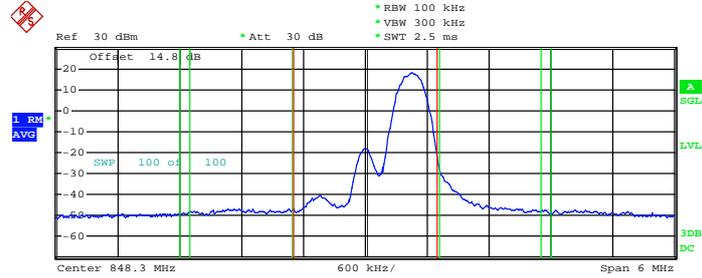
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 13.MAR.2013 17:56:54



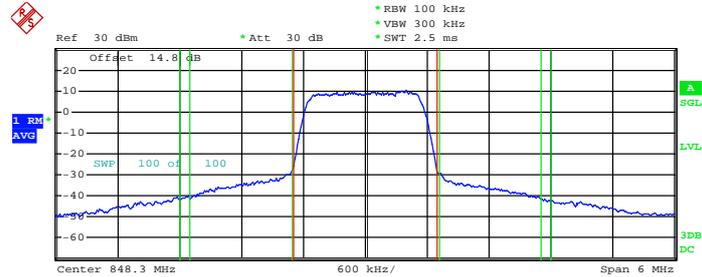
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-31.08 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	1.75 MHz	Upper	-48.26 dBm

Date: 13.MAR.2013 17:59:45

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



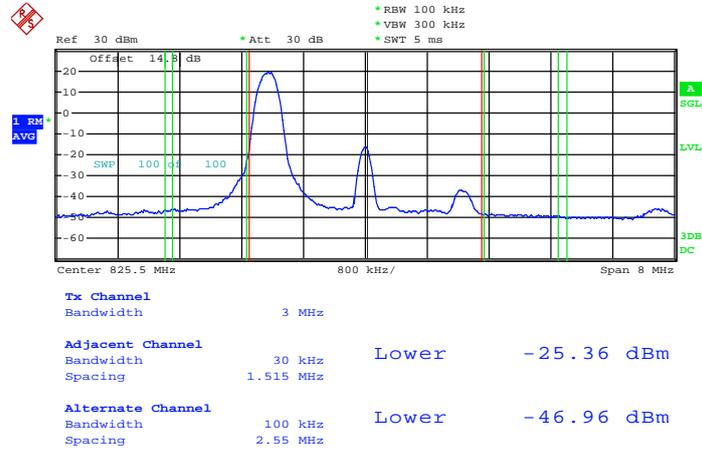
<b>Tx Channel</b>			
Bandwidth	1.4 MHz		
<b>Adjacent Channel</b>			
Bandwidth	14 kHz		
Spacing	707 kHz	Upper	-37.45 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	1.75 MHz	Upper	-42.27 dBm

Date: 13.MAR.2013 18:00:27



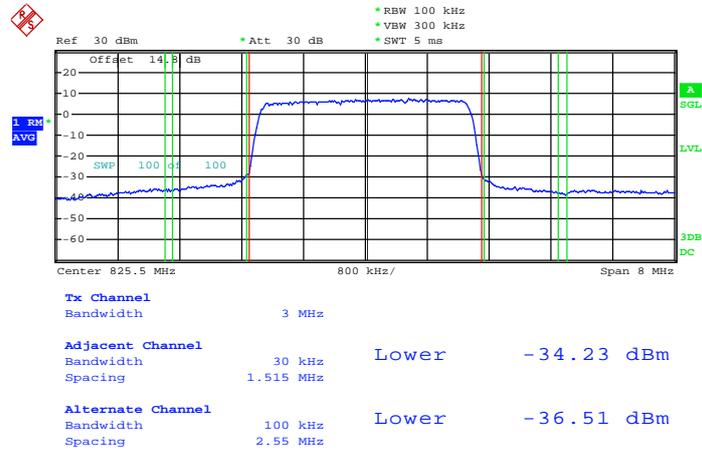
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	3MHz / QPSK
---------------	------------	--------------------	-------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 18:03:01

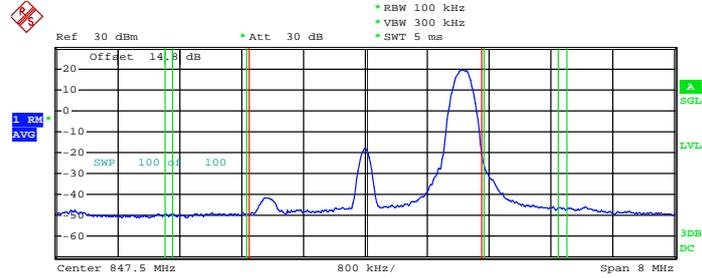
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 13.MAR.2013 18:04:23



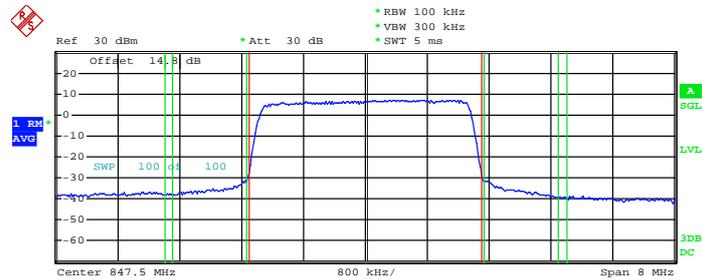
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-24.78 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-46.94 dBm

Date: 13.MAR.2013 18:05:34

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



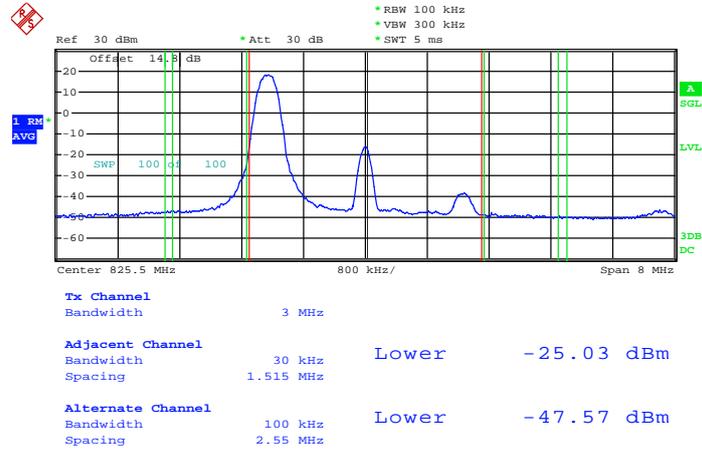
<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-33.31 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-39.67 dBm

Date: 13.MAR.2013 18:06:48



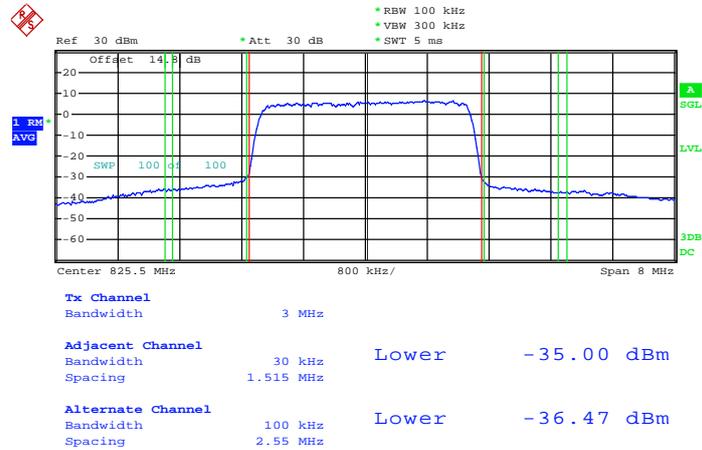
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	3MHz / 16QAM
---------------	------------	--------------------	--------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 18:03:17

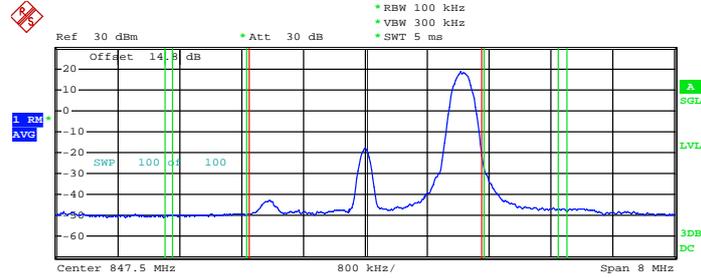
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 13.MAR.2013 18:04:02



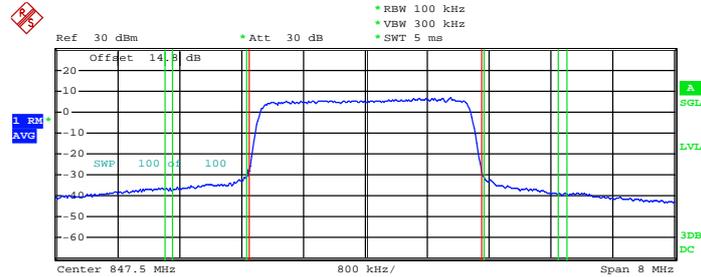
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-25.43 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-47.36 dBm

Date: 13.MAR.2013 18:06:06

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



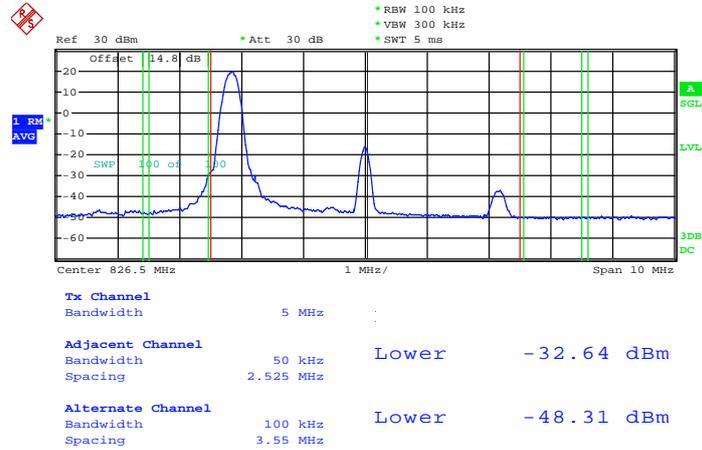
<b>Tx Channel</b>			
Bandwidth	3 MHz		
<b>Adjacent Channel</b>			
Bandwidth	30 kHz		
Spacing	1.515 MHz	Upper	-33.40 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	2.55 MHz	Upper	-39.36 dBm

Date: 13.MAR.2013 18:06:36



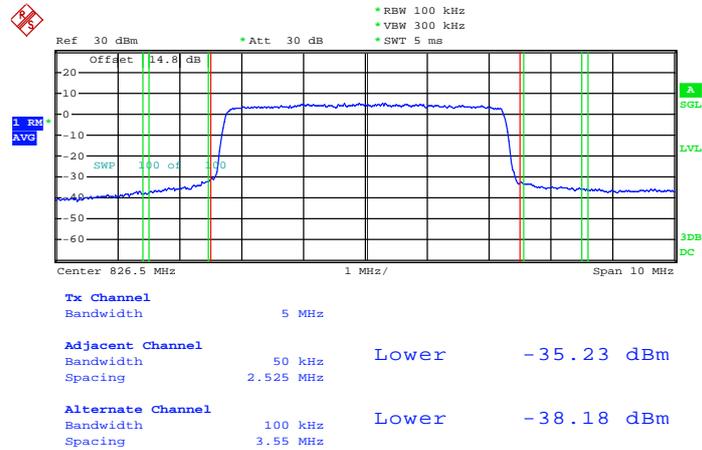
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	5MHz / QPSK
---------------	------------	--------------------	-------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 18:10:52

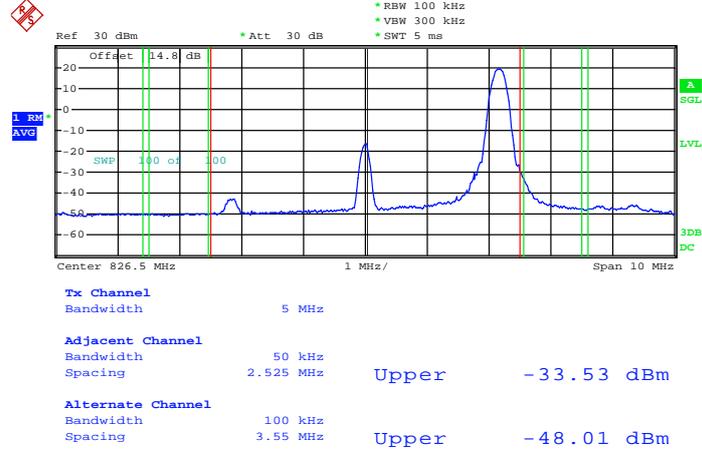
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 13.MAR.2013 18:12:28

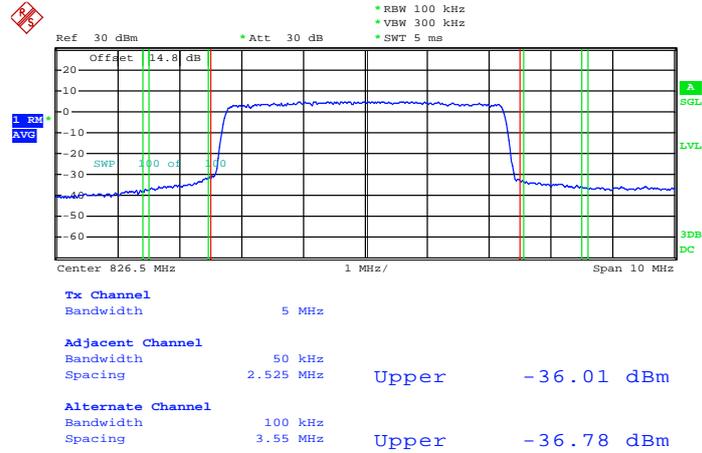


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 13.MAR.2013 18:15:52

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

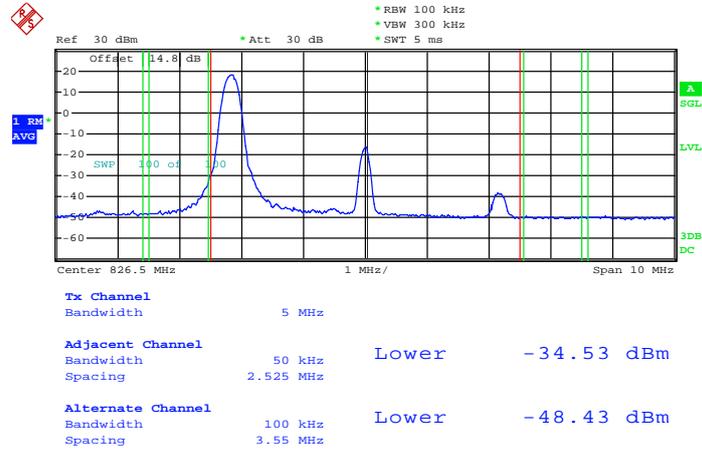


Date: 13.MAR.2013 18:16:45



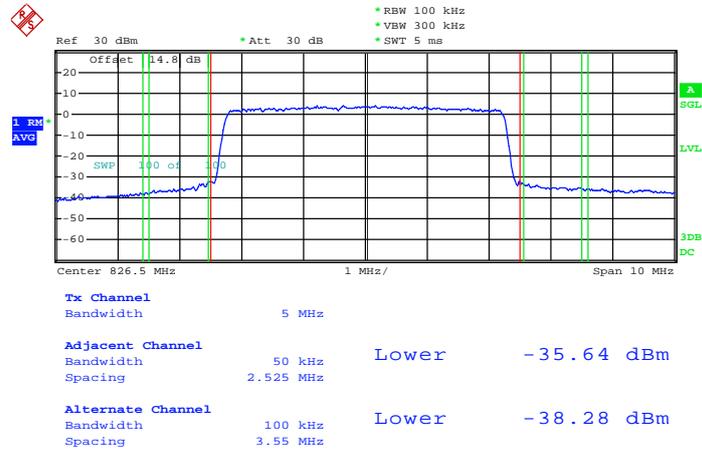
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	5MHz / 16QAM
---------------	------------	--------------------	--------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 18:11:17

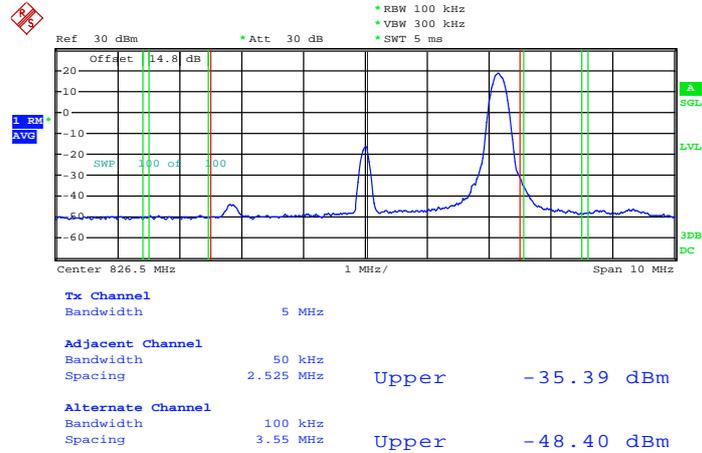
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 13.MAR.2013 18:11:57

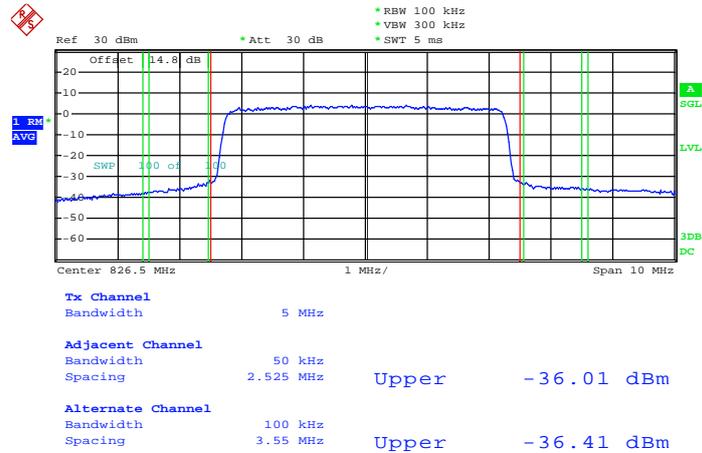


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 13.MAR.2013 18:16:10

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

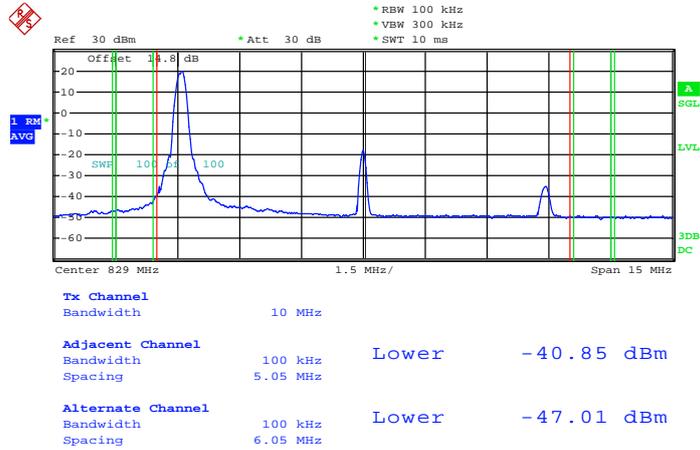


Date: 13.MAR.2013 18:16:33



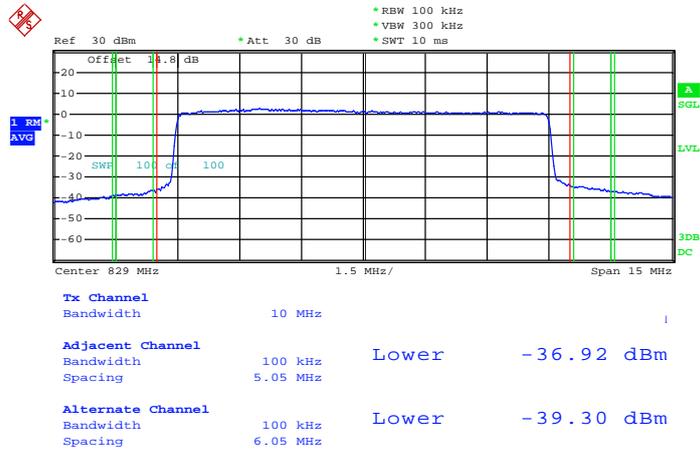
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	10MHz / QPSK
---------------	------------	--------------------	--------------

**Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0**



Date: 13.MAR.2013 18:18:49

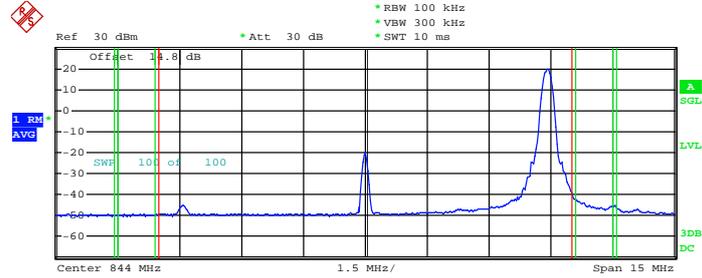
**Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0**



Date: 13.MAR.2013 18:19:31



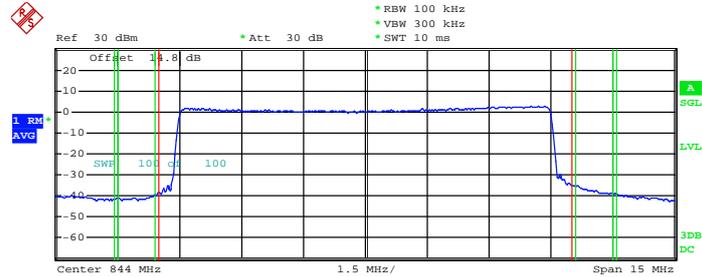
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-41.02 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	6.05 MHz	Upper	-45.88 dBm

Date: 13.MAR.2013 18:20:25

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



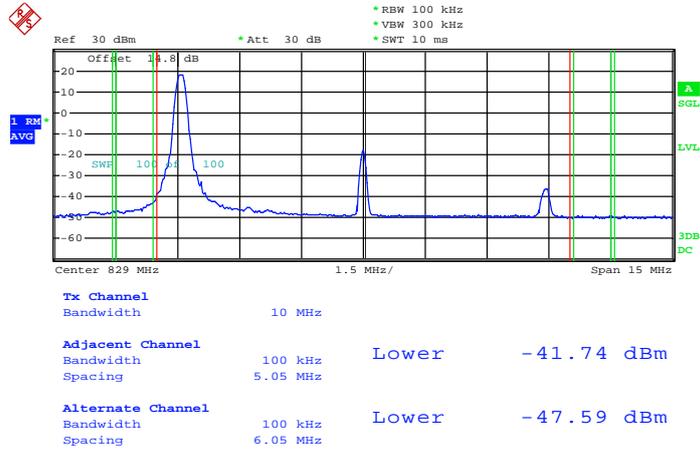
<b>Tx Channel</b>			
Bandwidth	10 MHz		
<b>Adjacent Channel</b>			
Bandwidth	100 kHz		
Spacing	5.05 MHz	Upper	-35.36 dBm
<b>Alternate Channel</b>			
Bandwidth	100 kHz		
Spacing	6.05 MHz	Upper	-39.28 dBm

Date: 13.MAR.2013 20:17:39



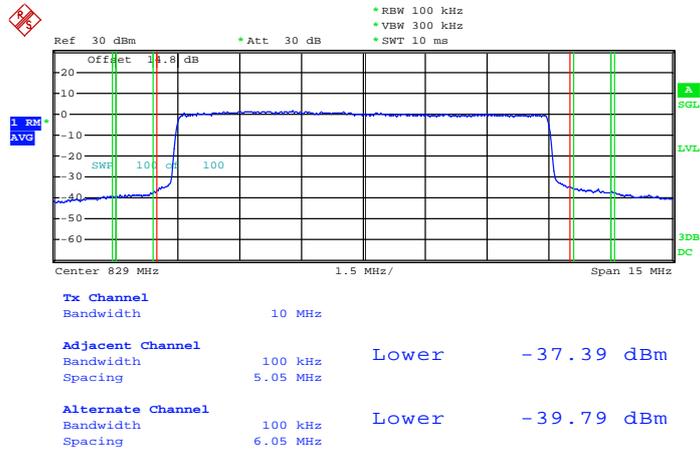
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	10MHz / 16QAM
---------------	------------	--------------------	---------------

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 13.MAR.2013 18:19:01

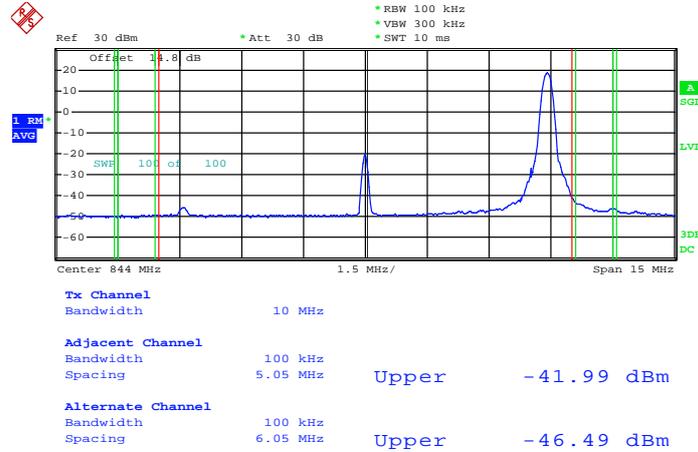
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 13.MAR.2013 18:19:20

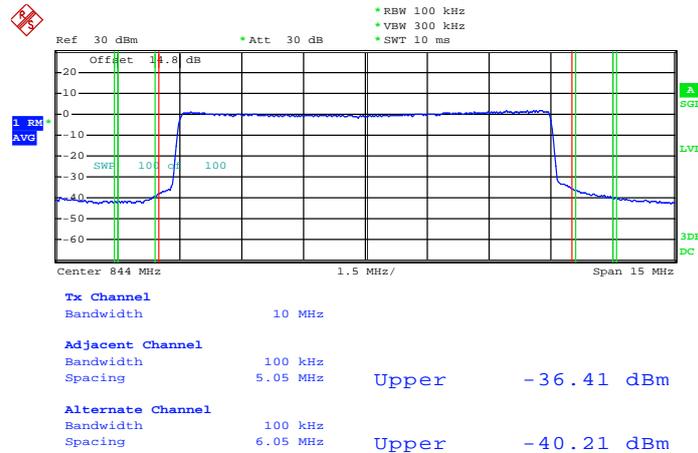


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 13.MAR.2013 18:20:38

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

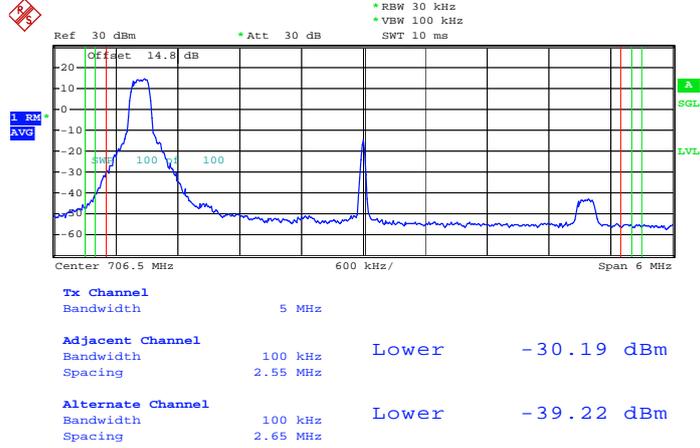


Date: 13.MAR.2013 18:20:55



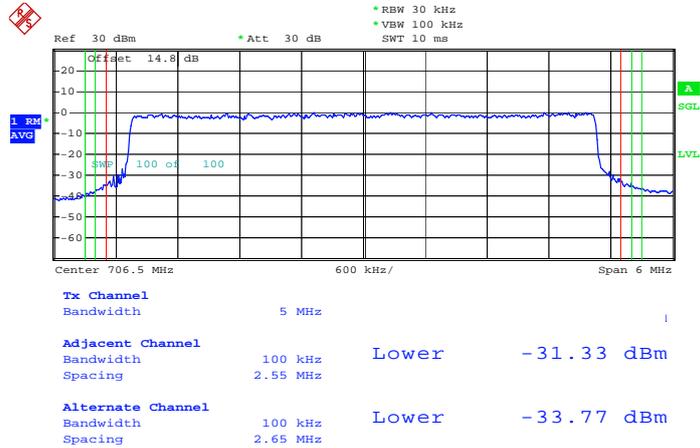
<b>Band :</b>	LTE Band 17	<b>Band Width</b>	5MHz / QPSK
---------------	-------------	-------------------	-------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 20:10:47

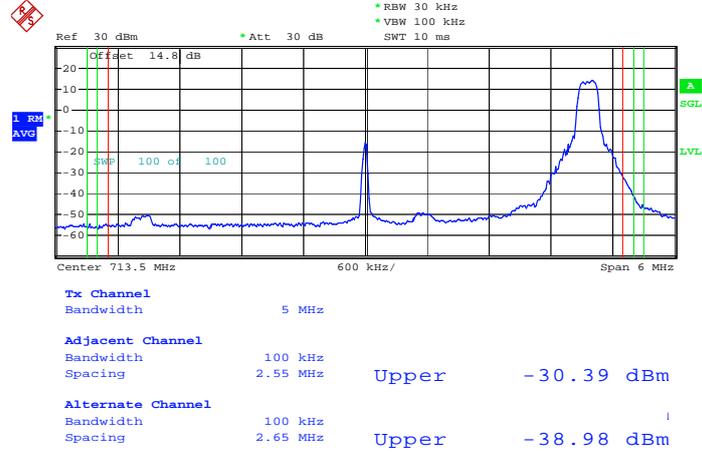
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 13.MAR.2013 20:09:42

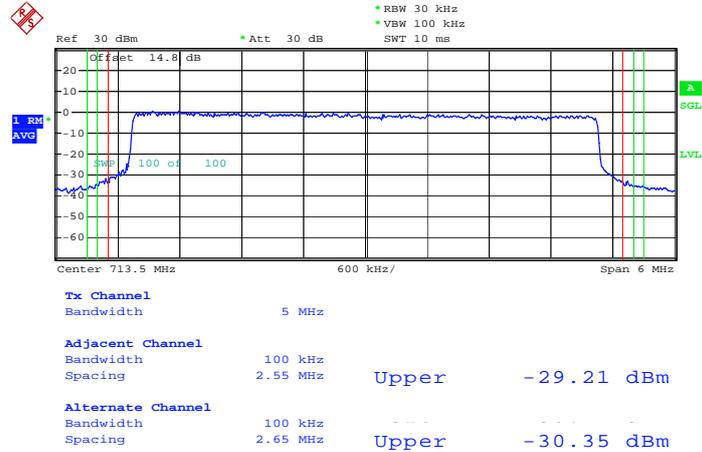


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 13.MAR.2013 20:11:41

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

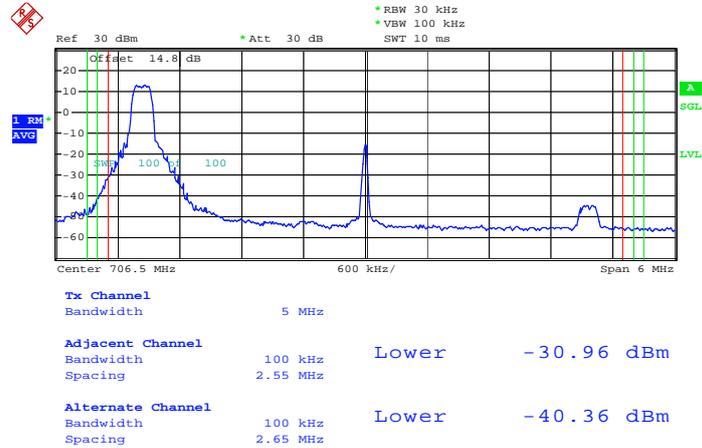


Date: 13.MAR.2013 20:12:30



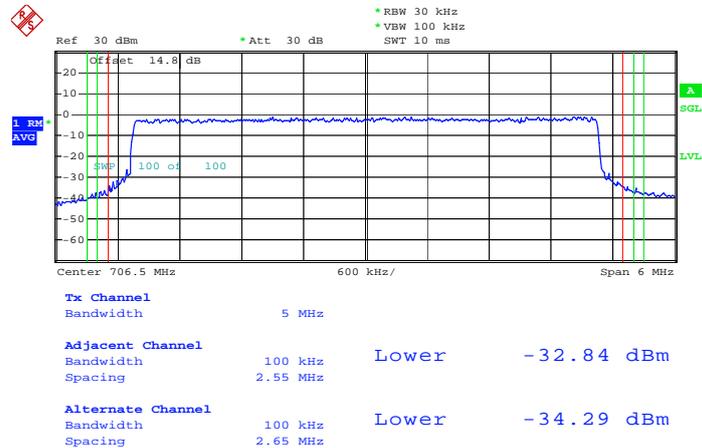
<b>Band :</b>	LTE Band 17	<b>Band Width</b>	5MHz / 16QAM
---------------	-------------	-------------------	--------------

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 13.MAR.2013 20:10:30

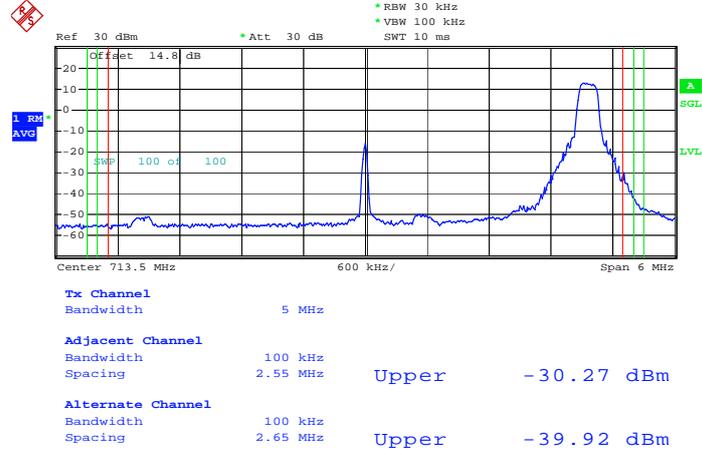
Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



Date: 13.MAR.2013 20:09:26

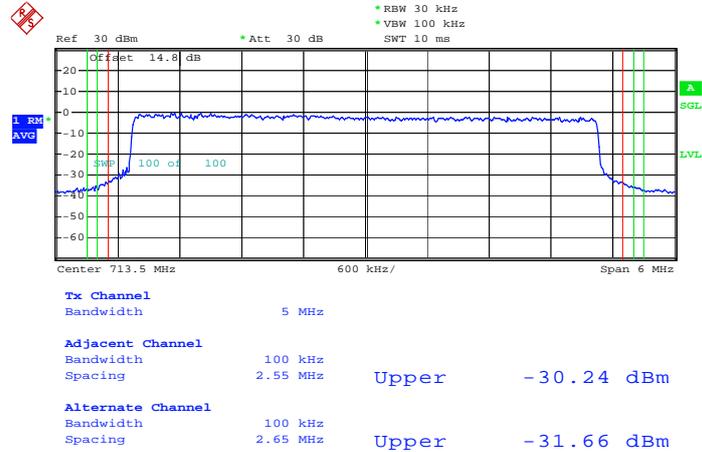


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 13.MAR.2013 20:11:55

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

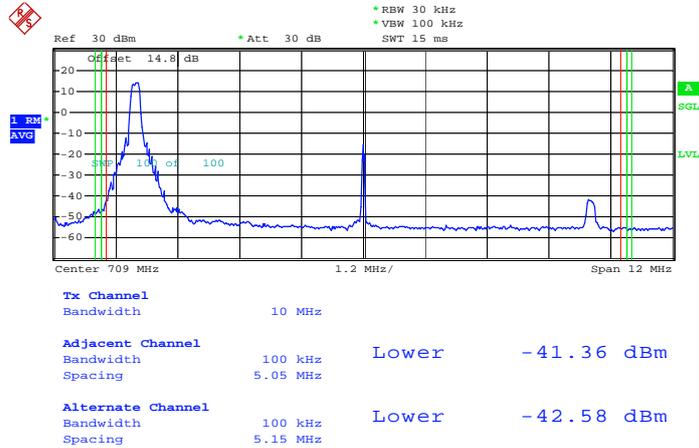


Date: 13.MAR.2013 20:12:16



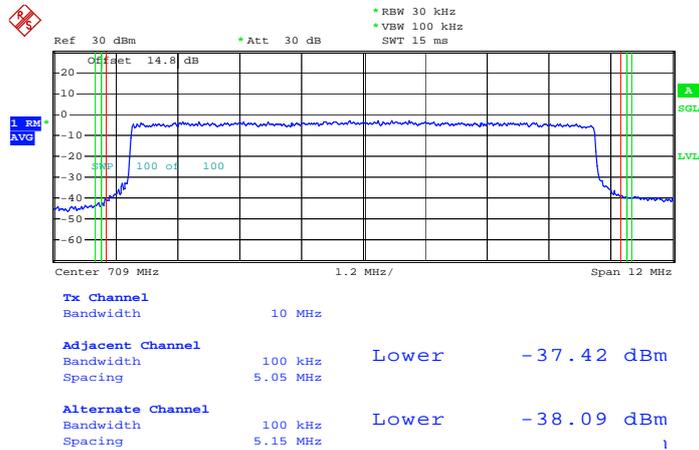
<b>Band :</b>	LTE Band 17	<b>Band Width</b>	10MHz / QPSK
---------------	-------------	-------------------	--------------

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 13.MAR.2013 20:15:55

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



Date: 13.MAR.2013 20:17:11

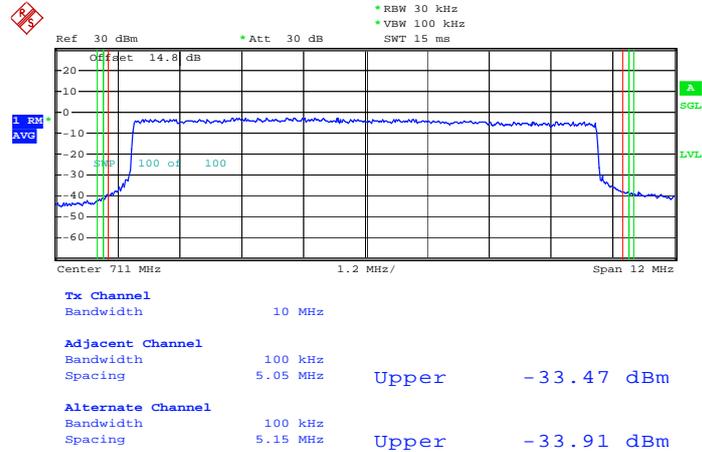


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 13.MAR.2013 20:20:45

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

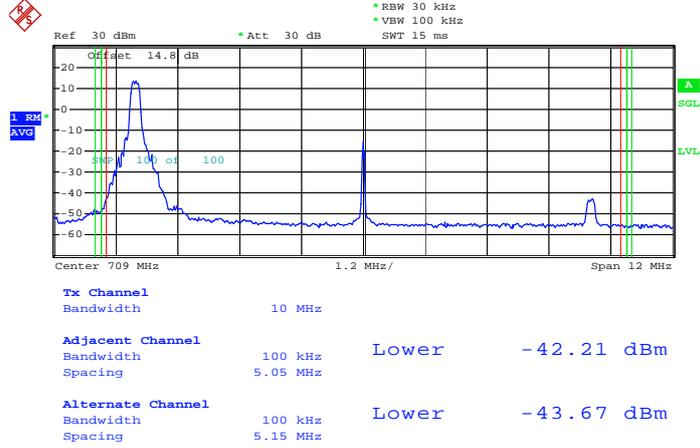


Date: 13.MAR.2013 20:18:40



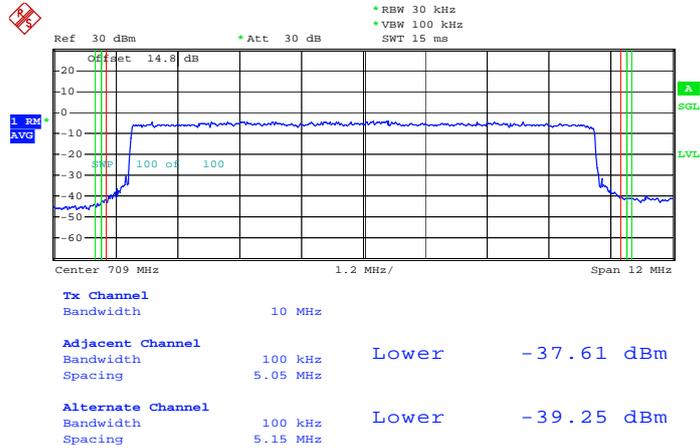
<b>Band :</b>	LTE Band 17	<b>Band Width</b>	10MHz / 16QAM
---------------	-------------	-------------------	---------------

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 13.MAR.2013 20:16:22

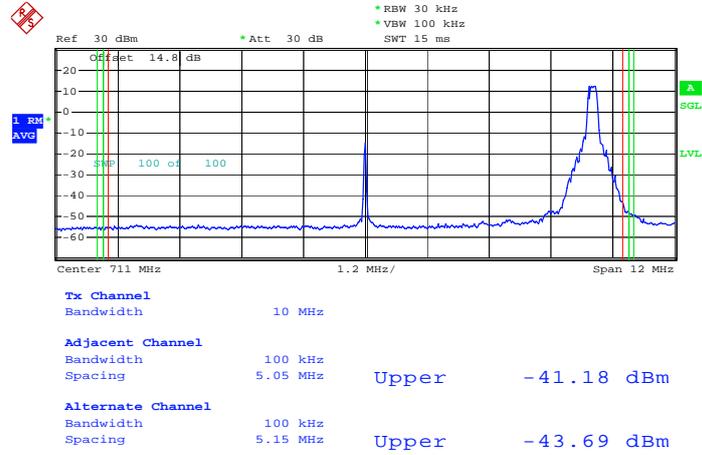
Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 13.MAR.2013 20:16:50

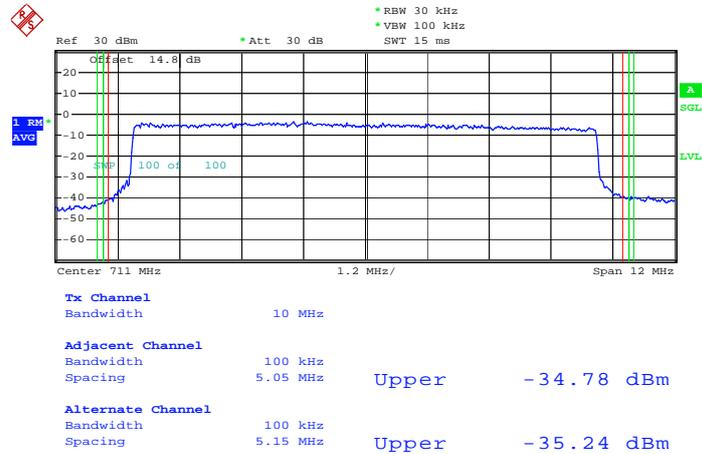


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Date: 13.MAR.2013 20:20:27

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



Date: 13.MAR.2013 20:19:01

### 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 10<sup>th</sup> harmonic.

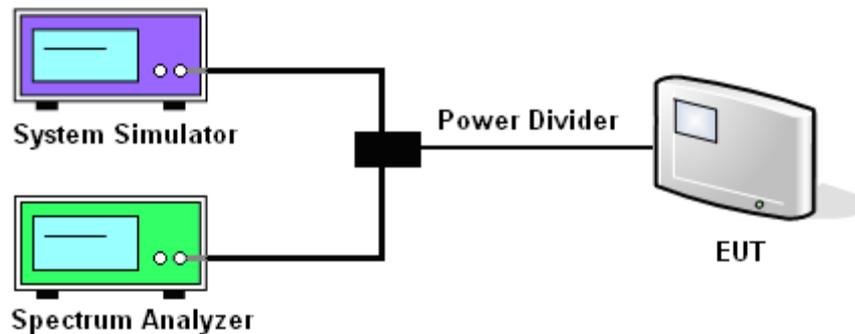
#### 3.5.2 Measuring Instruments

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

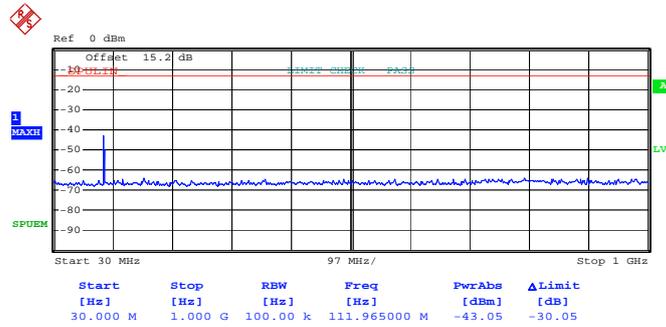




3.5.5 Test Result (Plots) of Conducted Spurious Emission

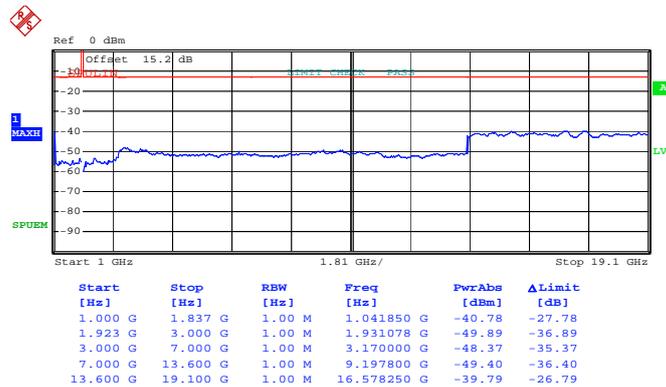
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
Frequency :	1850.7	Channel :	18607

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



Date: 22.JAN.2013 14:50:21

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)



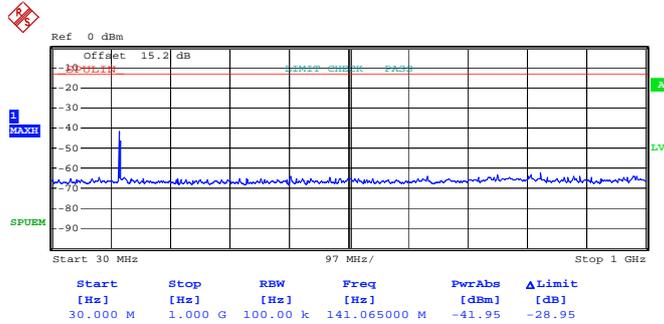
Date: 22.JAN.2013 14:49:59

Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
--------	------------	-------------	---------------



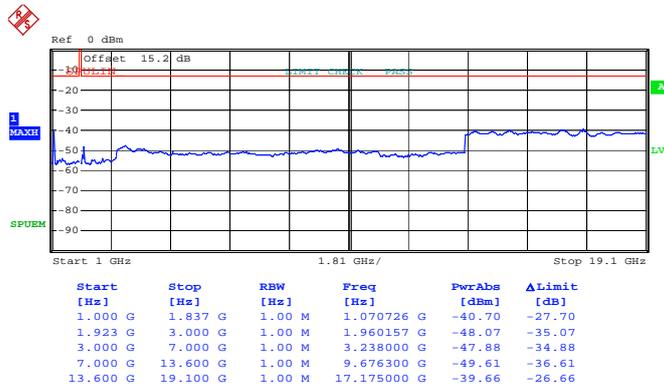
Frequency :	1880	Channel :	18900
-------------	------	-----------	-------

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



Date: 22.JAN.2013 14:24:42

Conducted Emission Plot (1GHz ~ 19GHz) for  
QPSK (RB Size 1, RB Offset 0)

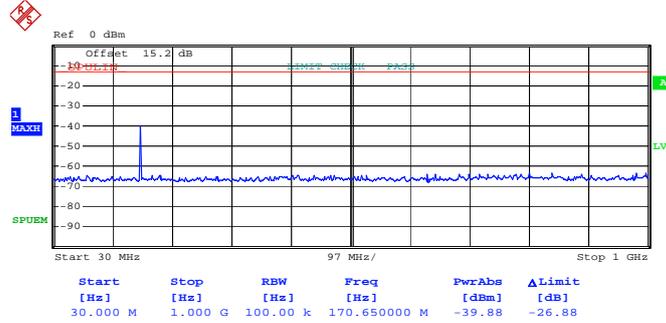


Date: 22.JAN.2013 14:25:37



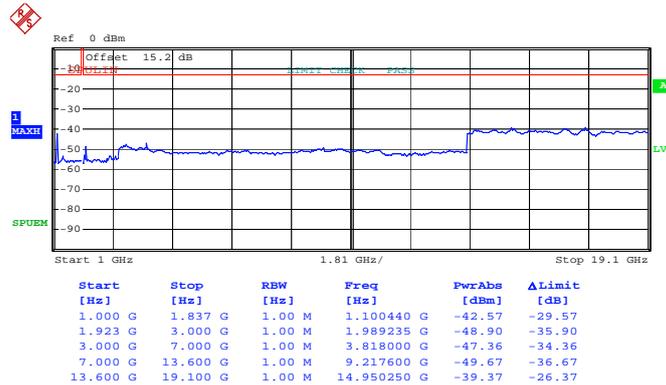
Band :	LTE Band 2	BW / Mod. :	1.4MHz / QPSK
Frequency :	1909.3	Channel :	19193

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



Date: 22.JAN.2013 15:02:31

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

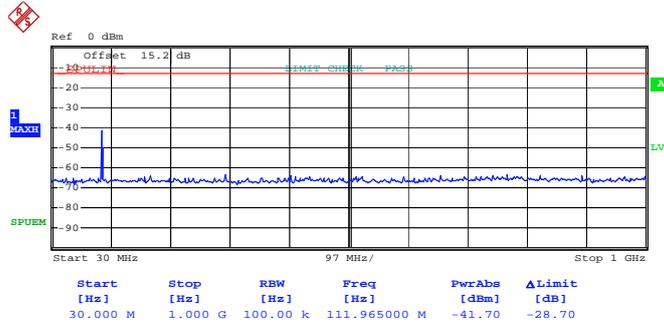


Date: 22.JAN.2013 15:03:00



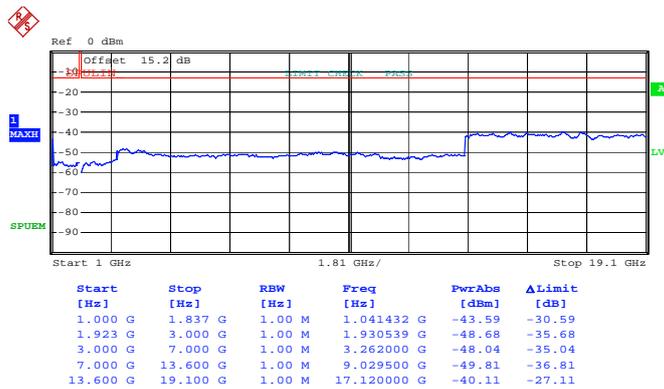
Band :	LTE Band 2	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1850.7	Channel :	18607

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



Date: 22.JAN.2013 14:50:41

Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)

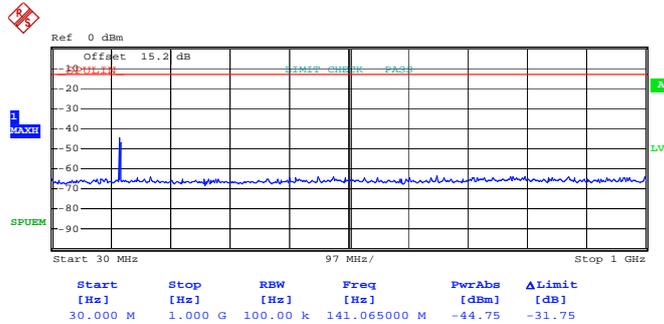


Date: 22.JAN.2013 14:49:40



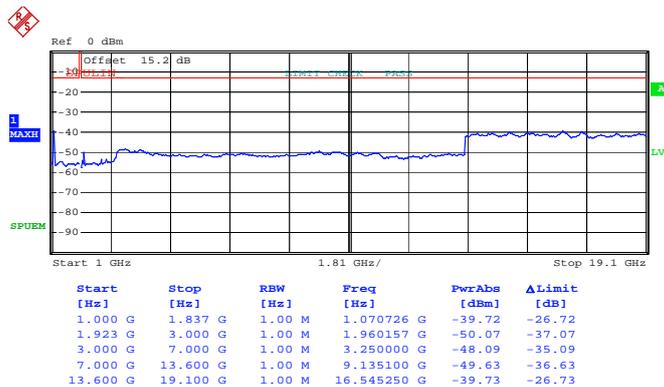
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	1880	<b>Channel :</b>	18900

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



Date: 22.JAN.2013 14:24:26

**Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)**

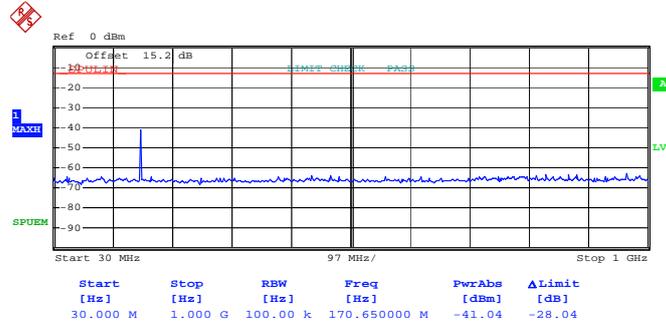


Date: 22.JAN.2013 14:25:07



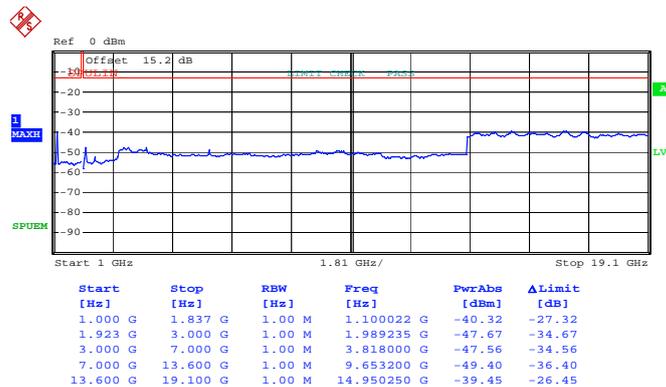
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	1909.3	<b>Channel :</b>	19193

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



Date: 22.JAN.2013 15:02:13

**Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)**

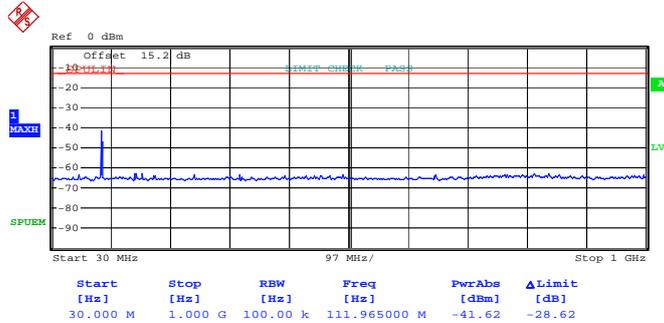


Date: 22.JAN.2013 15:03:41



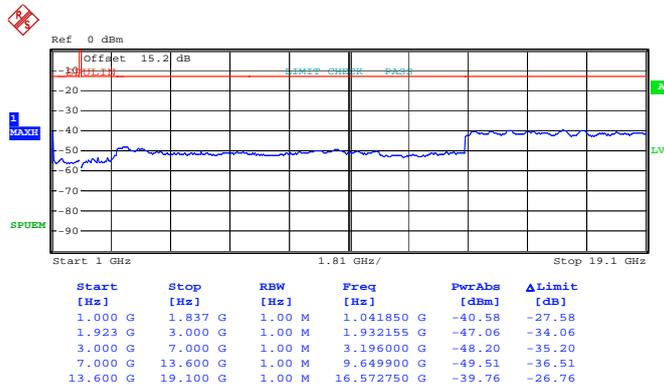
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / QPSK
<b>Frequency :</b>	1851.5	<b>Channel :</b>	18615

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



Date: 22.JAN.2013 14:47:38

**Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)**

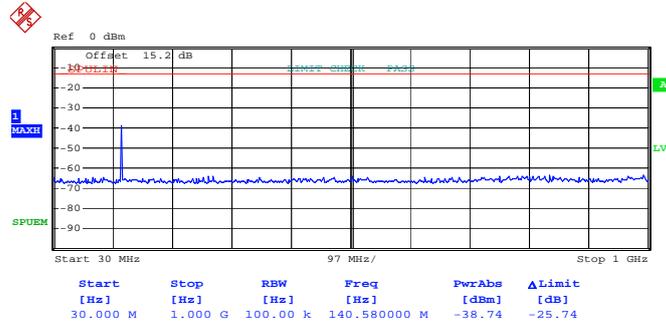


Date: 22.JAN.2013 14:48:12



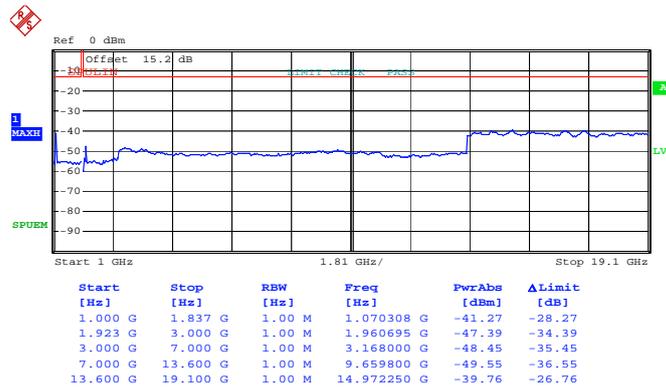
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
Frequency :	1880	Channel :	18900

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



Date: 22.JAN.2013 14:27:24

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

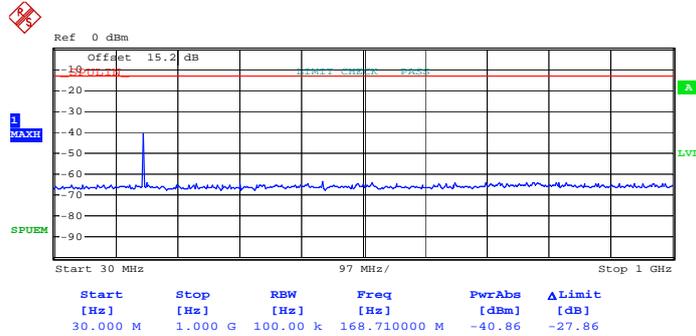


Date: 22.JAN.2013 14:27:01



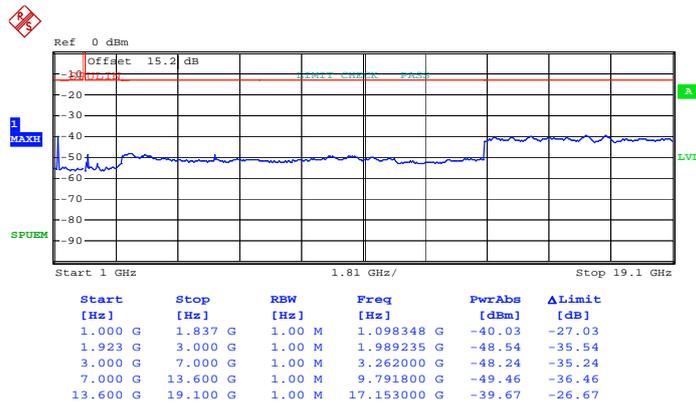
Band :	LTE Band 2	BW / Mod. :	3MHz / QPSK
Frequency :	1908.5	Channel :	19185

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



Date: 22.JAN.2013 15:06:40

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

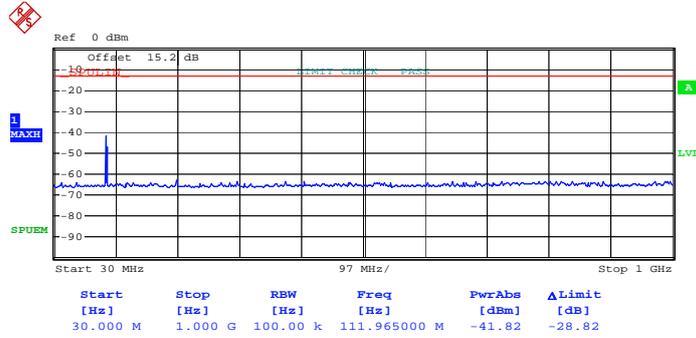


Date: 22.JAN.2013 15:06:11



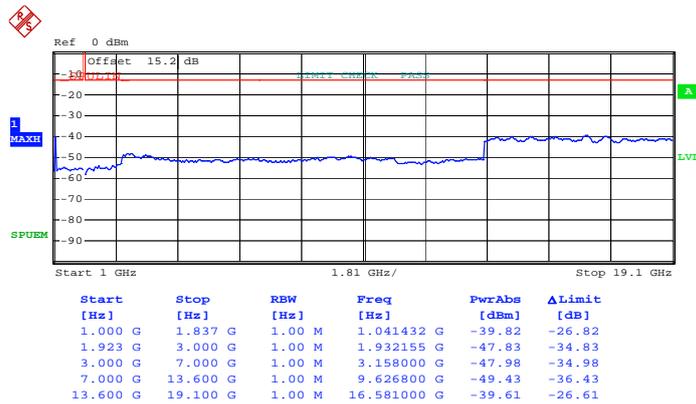
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
Frequency :	1851.5	Channel :	18615

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



Date: 22.JAN.2013 14:46:38

Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)

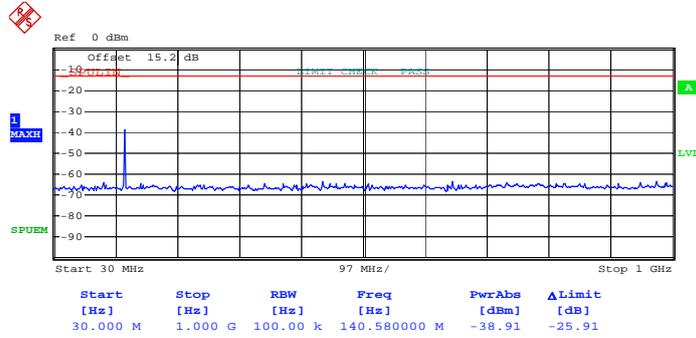


Date: 22.JAN.2013 14:48:42



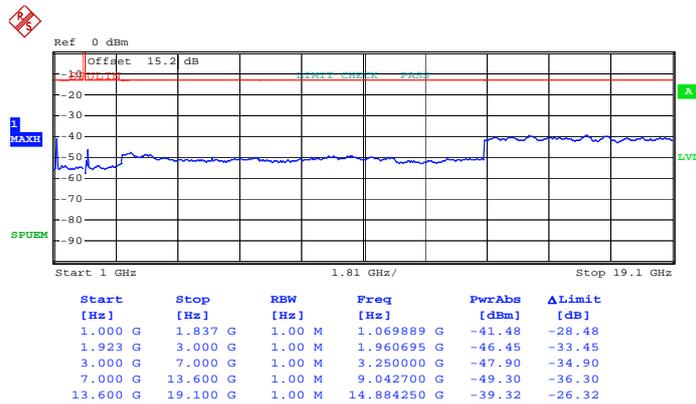
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
Frequency :	1880	Channel :	18900

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



Date: 22.JAN.2013 14:27:44

Conducted Emission Plot (1GHz ~ 19GHz) for  
16-QAM (RB Size 1, RB Offset 0)

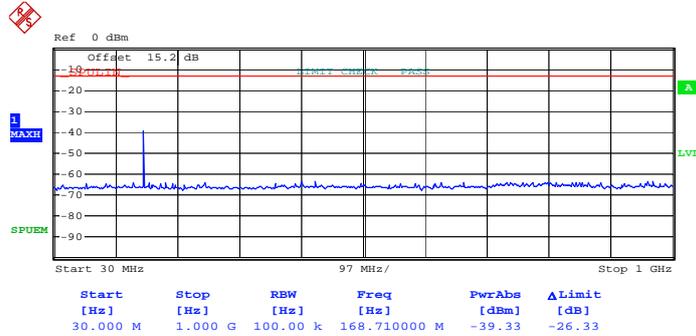


Date: 22.JAN.2013 14:26:39



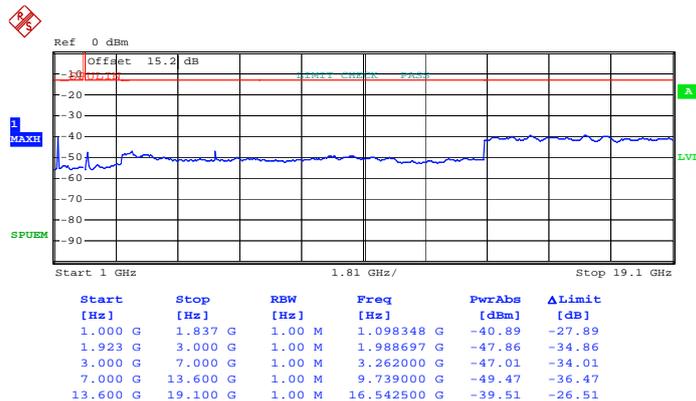
Band :	LTE Band 2	BW / Mod. :	3MHz / 16QAM
Frequency :	1908.5	Channel :	19185

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



Date: 22.JAN.2013 15:07:06

Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)

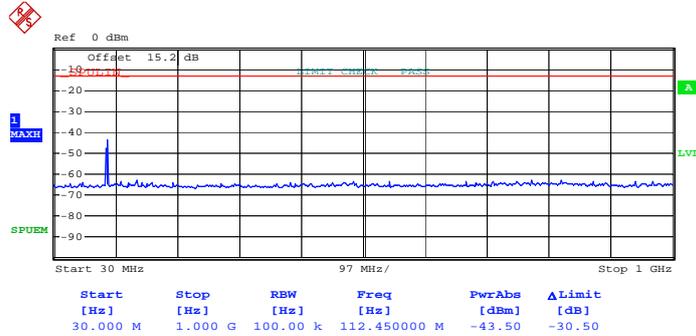


Date: 22.JAN.2013 15:05:40



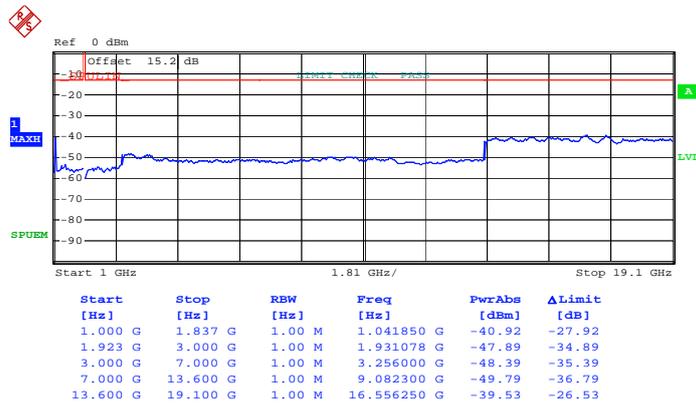
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
Frequency :	1852.5	Channel :	18625

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



Date: 22.JAN.2013 14:44:49

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

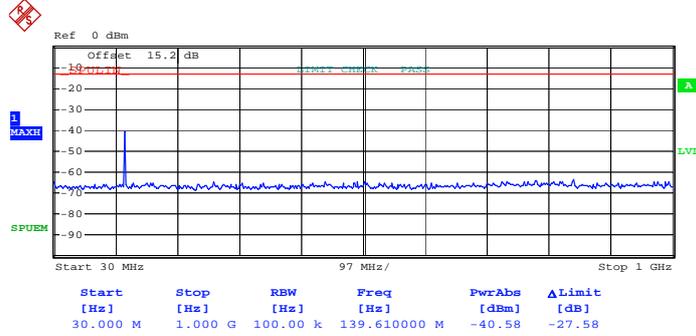


Date: 22.JAN.2013 14:44:00



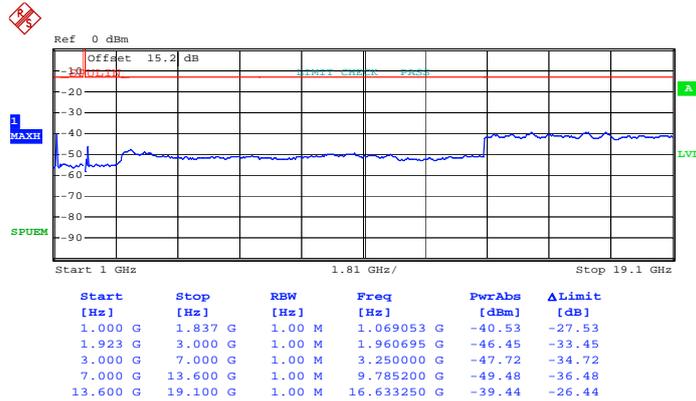
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
Frequency :	1880	Channel :	18900

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



Date: 22.JAN.2013 14:28:37

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

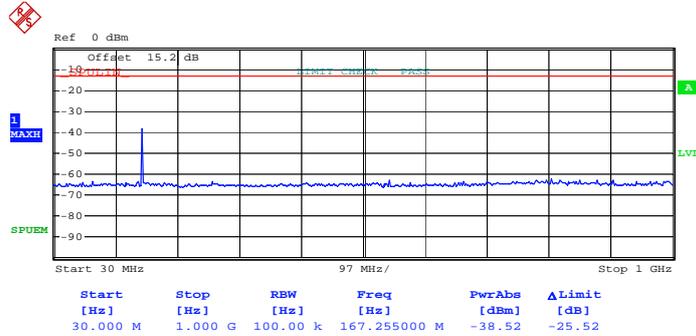


Date: 22.JAN.2013 14:29:09



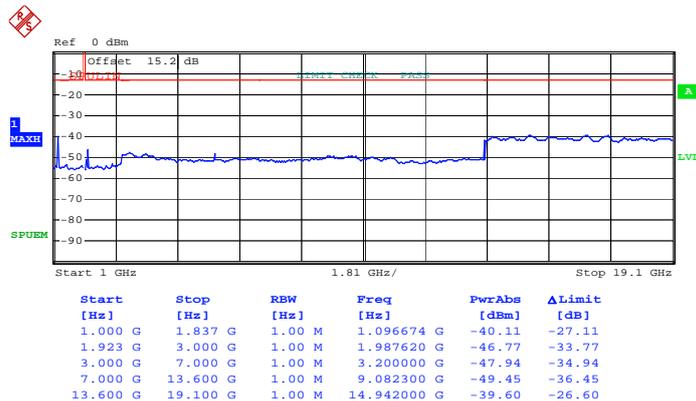
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
Frequency :	1907.5	Channel :	19175

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



Date: 22.JAN.2013 15:12:38

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

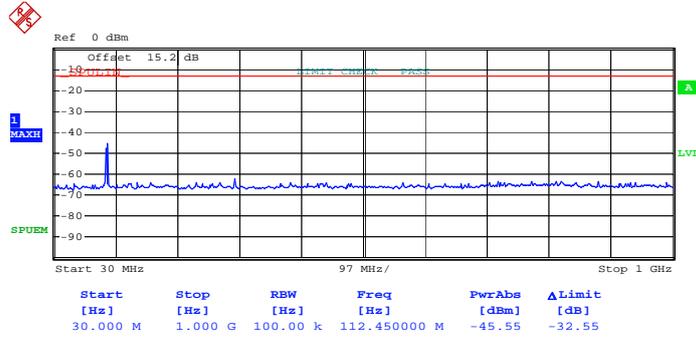


Date: 22.JAN.2013 15:14:54



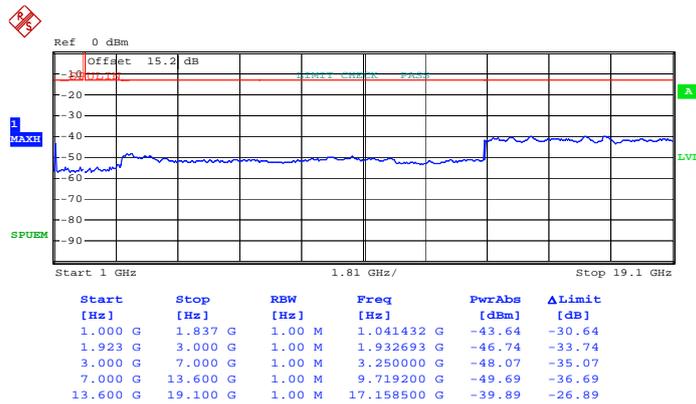
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
Frequency :	1852.5	Channel :	18625

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



Date: 22.JAN.2013 14:45:17

Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)

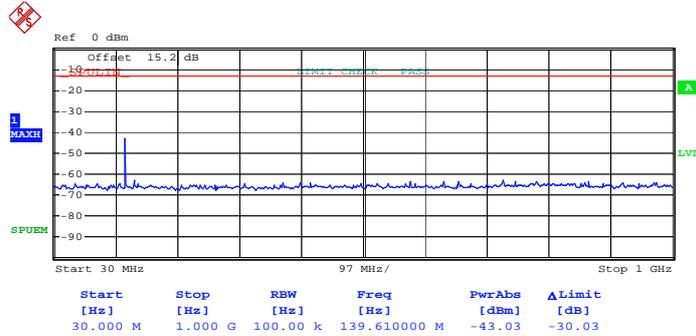


Date: 22.JAN.2013 14:43:40



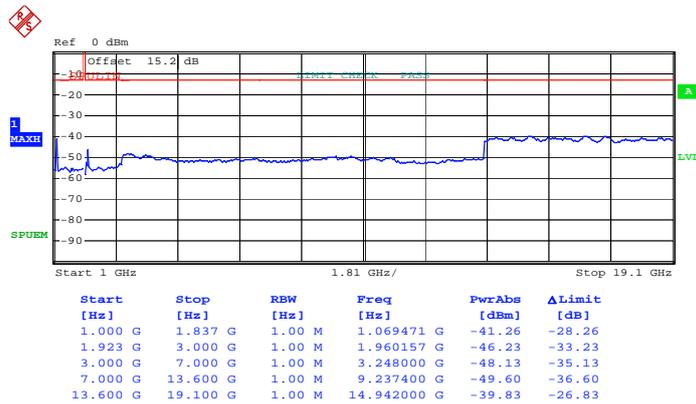
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
Frequency :	1880	Channel :	18900

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



Date: 22.JAN.2013 14:28:14

Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)

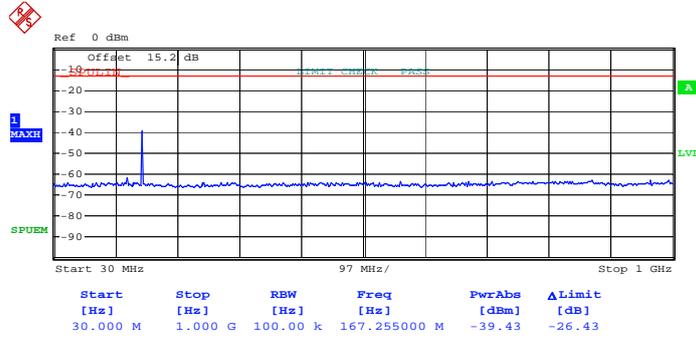


Date: 22.JAN.2013 14:29:33



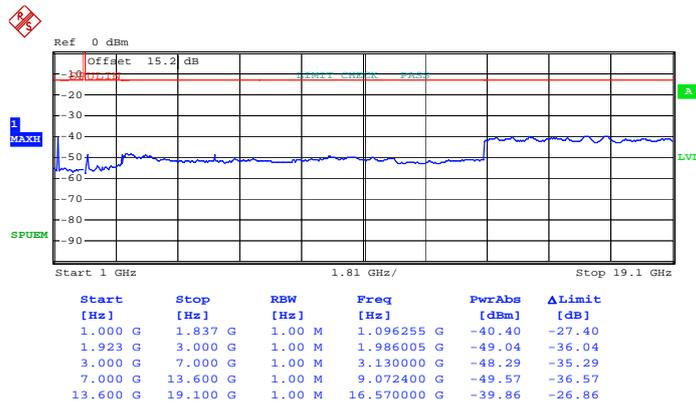
Band :	LTE Band 2	BW / Mod. :	5MHz / 16QAM
Frequency :	1907.5	Channel :	19175

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



Date: 22.JAN.2013 15:11:18

Conducted Emission Plot (1GHz ~ 19GHz) for  
16-QAM (RB Size 1, RB Offset 0)

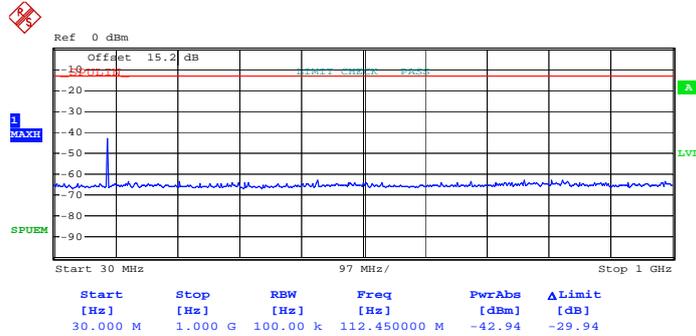


Date: 22.JAN.2013 15:15:27



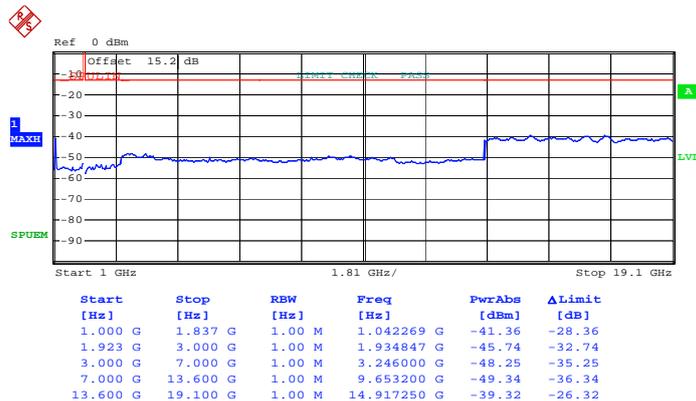
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1855	Channel :	18650

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



Date: 22.JAN.2013 14:40:55

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

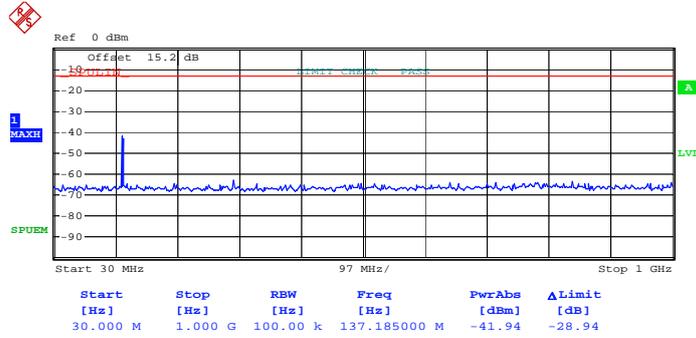


Date: 22.JAN.2013 14:41:48



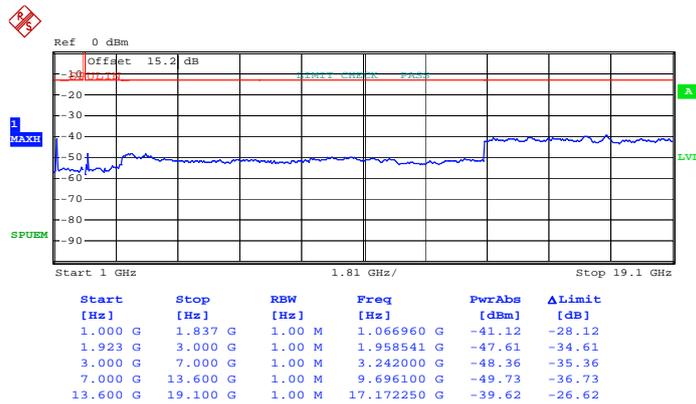
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1880	Channel :	18900

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



Date: 22.JAN.2013 14:31:07

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

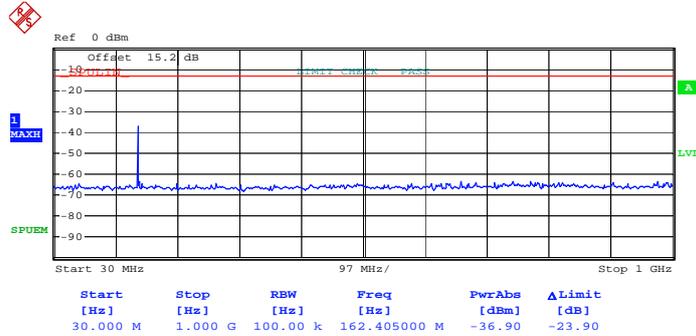


Date: 22.JAN.2013 14:30:46



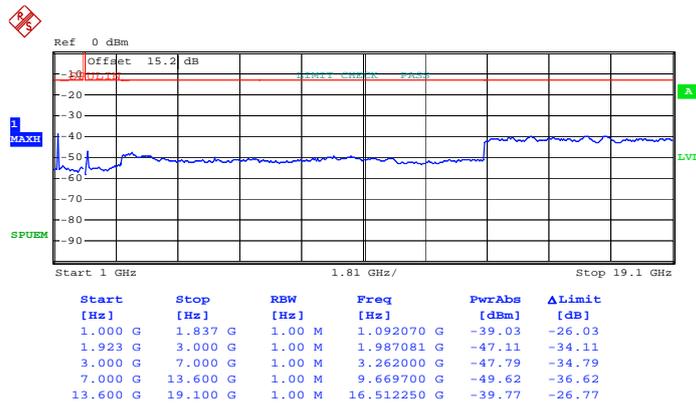
Band :	LTE Band 2	BW / Mod. :	10MHz / QPSK
Frequency :	1905	Channel :	19150

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



Date: 22.JAN.2013 15:17:05

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

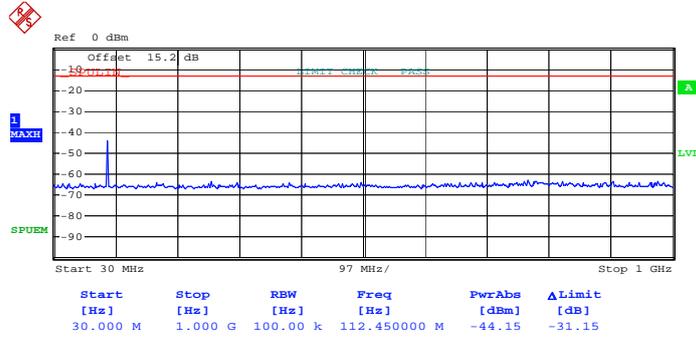


Date: 22.JAN.2013 15:16:41



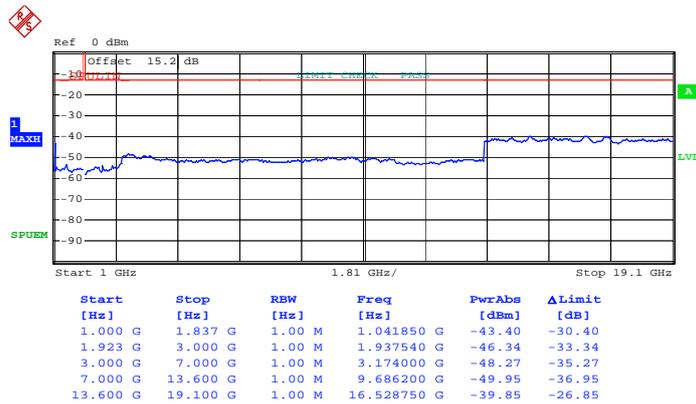
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
Frequency :	1855	Channel :	18650

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



Date: 22.JAN.2013 14:40:18

Conducted Emission Plot (1GHz ~ 19GHz) for  
16-QAM (RB Size 1, RB Offset 0)

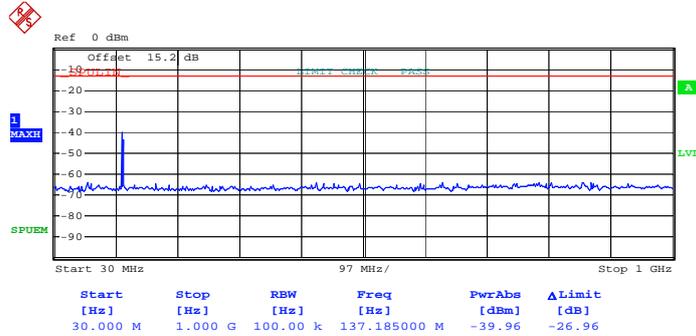


Date: 22.JAN.2013 14:42:15



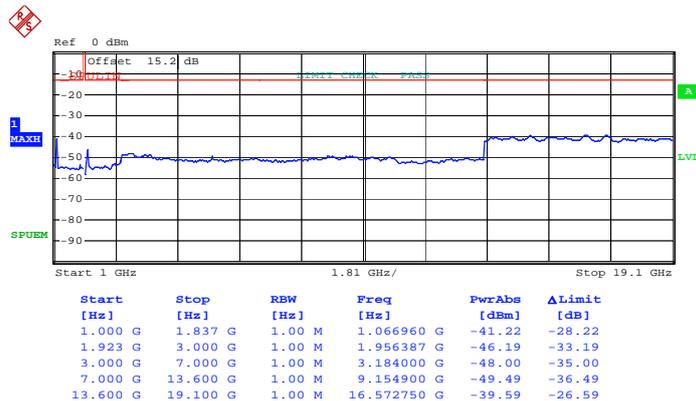
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
Frequency :	1880	Channel :	18900

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



Date: 22.JAN.2013 14:31:24

Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)

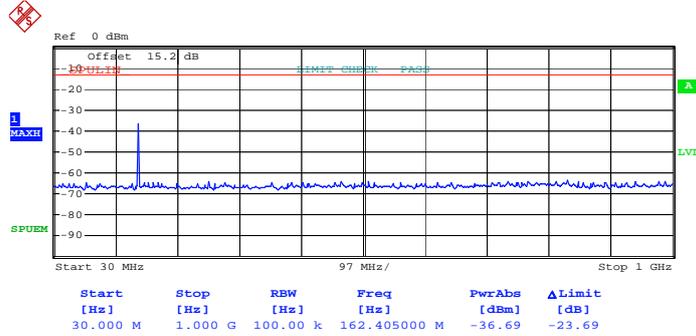


Date: 22.JAN.2013 14:30:26



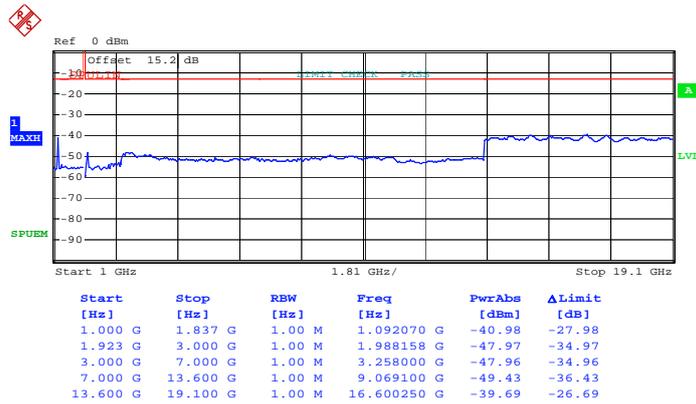
Band :	LTE Band 2	BW / Mod. :	10MHz / 16QAM
Frequency :	1905	Channel :	19150

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



Date: 22.JAN.2013 15:17:25

Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)

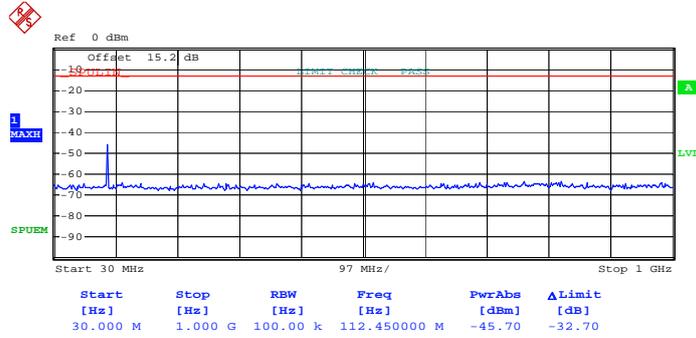


Date: 22.JAN.2013 15:16:12



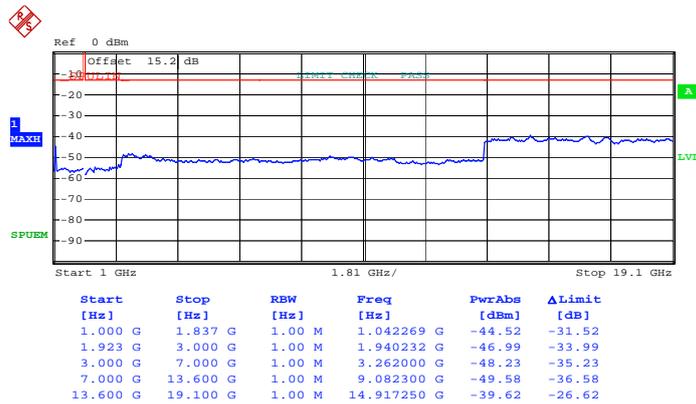
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
Frequency :	1857.5	Channel :	18675

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



Date: 22.JAN.2013 14:39:05

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

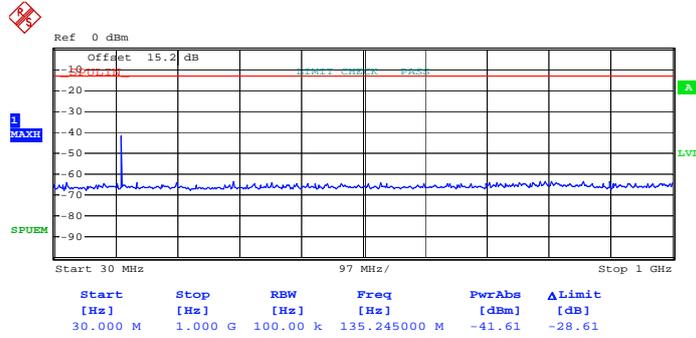


Date: 22.JAN.2013 14:38:40



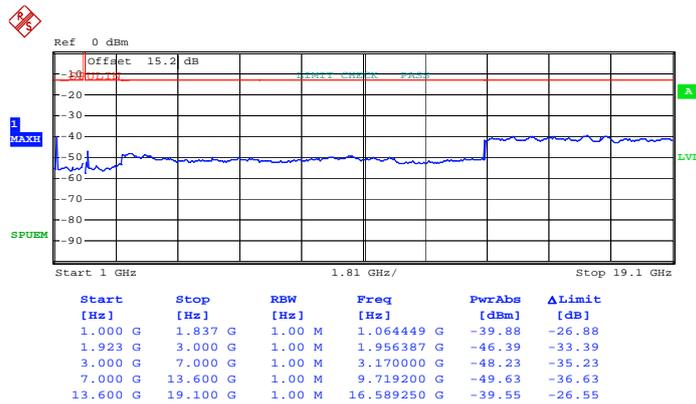
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
Frequency :	1880	Channel :	18900

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



Date: 22.JAN.2013 14:32:15

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

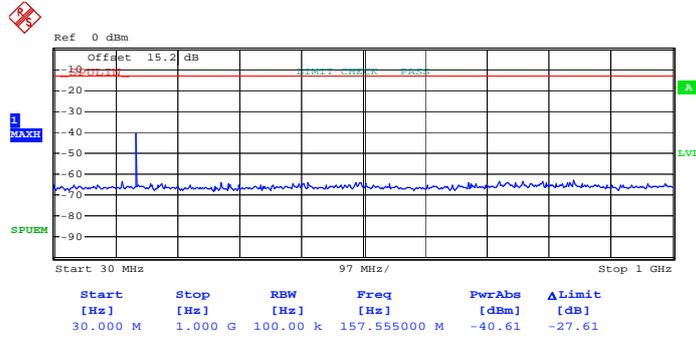


Date: 22.JAN.2013 14:32:47



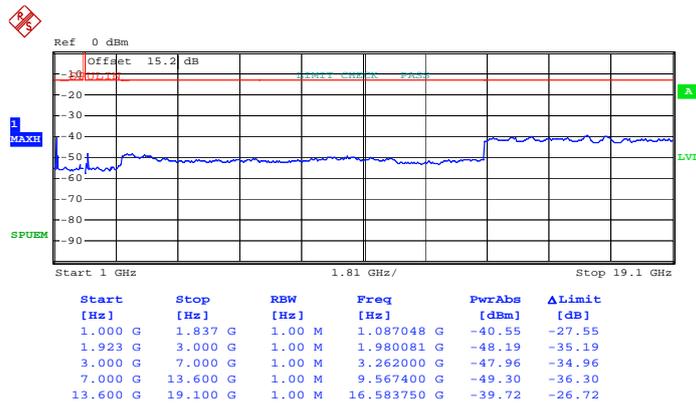
Band :	LTE Band 2	BW / Mod. :	15MHz / QPSK
Frequency :	1902.5	Channel :	19125

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



Date: 22.JAN.2013 15:18:15

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

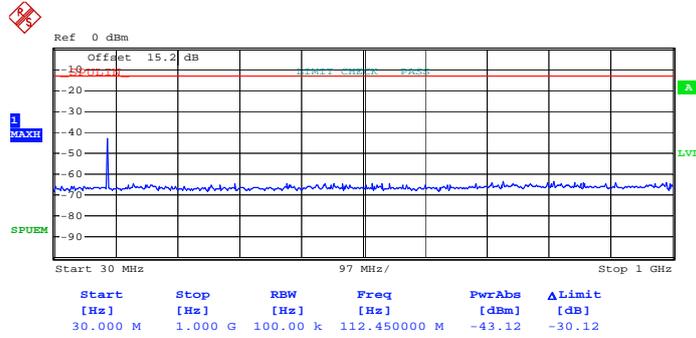


Date: 22.JAN.2013 15:18:42



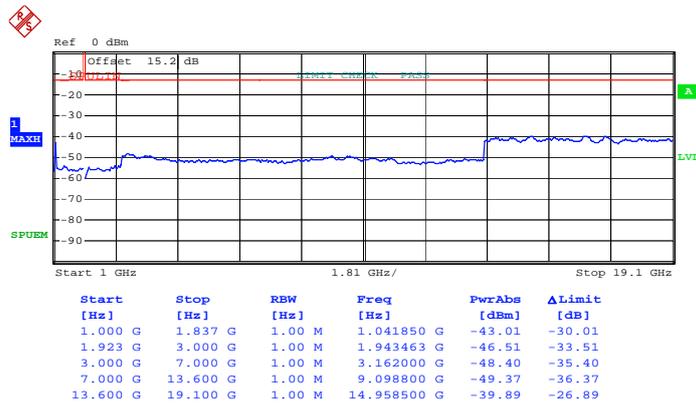
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	15MHz / 16QAM
<b>Frequency :</b>	1857.5	<b>Channel :</b>	18675

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



Date: 22.JAN.2013 14:39:23

**Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)**

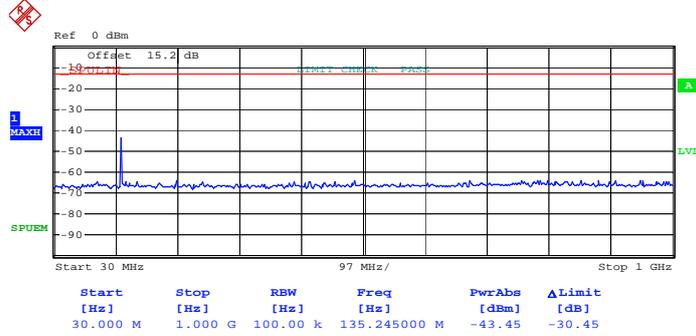


Date: 22.JAN.2013 14:38:21



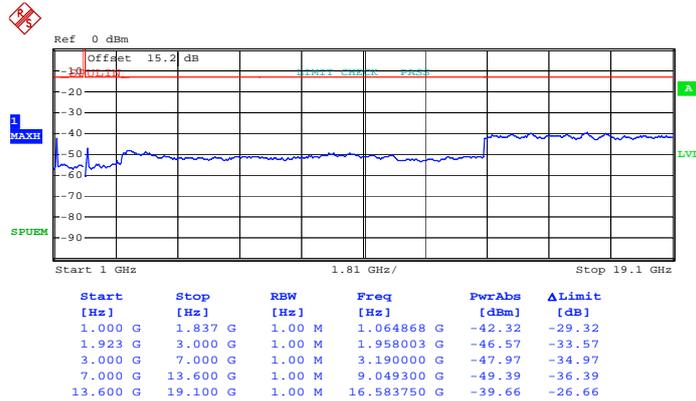
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
Frequency :	1880	Channel :	18900

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



Date: 22.JAN.2013 14:31:51

Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)

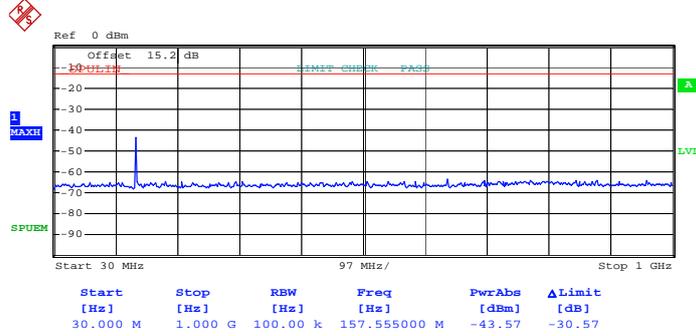


Date: 22.JAN.2013 14:33:07



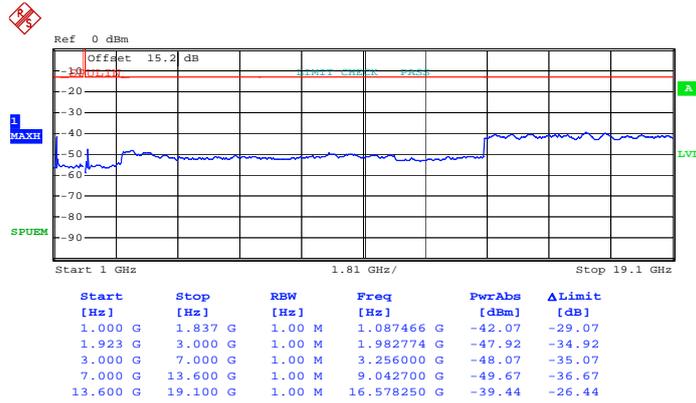
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
Frequency :	1902.5	Channel :	19125

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



Date: 22.JAN.2013 15:17:56

Conducted Emission Plot (1GHz ~ 19GHz) for  
16-QAM (RB Size 1, RB Offset 0)

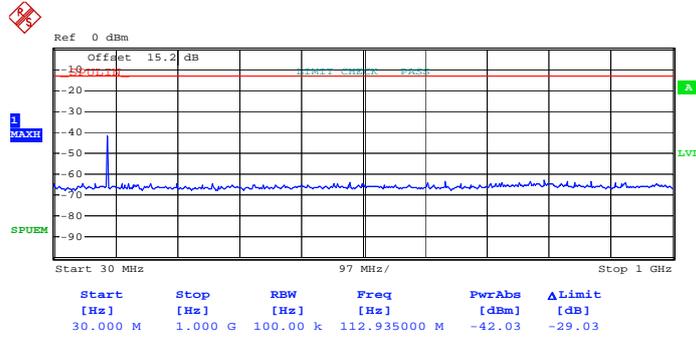


Date: 22.JAN.2013 15:19:02



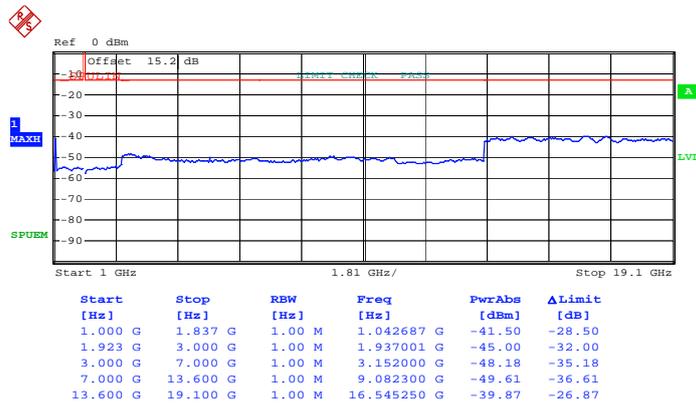
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
Frequency :	1860	Channel :	18700

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



Date: 22.JAN.2013 14:36:50

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

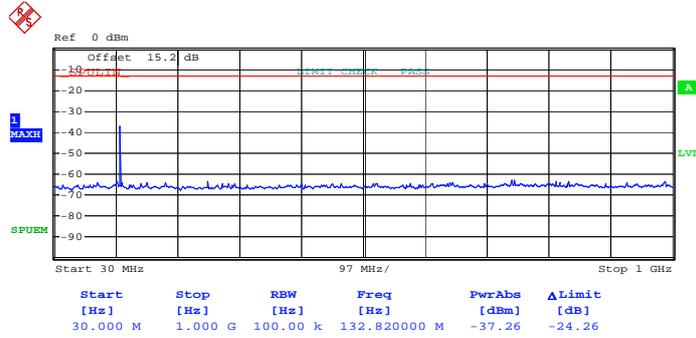


Date: 22.JAN.2013 14:37:22



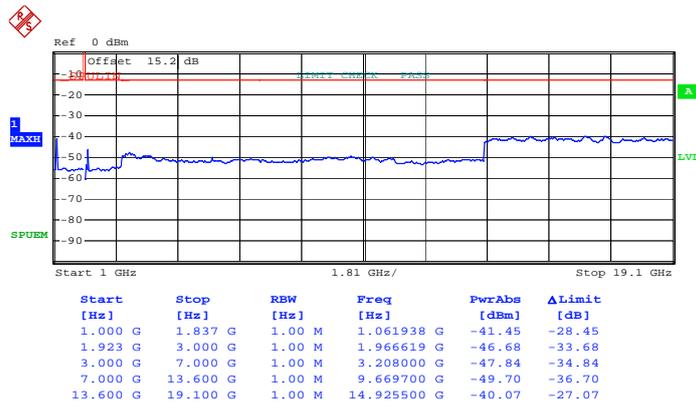
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
Frequency :	1880	Channel :	18900

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



Date: 22.JAN.2013 14:34:24

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

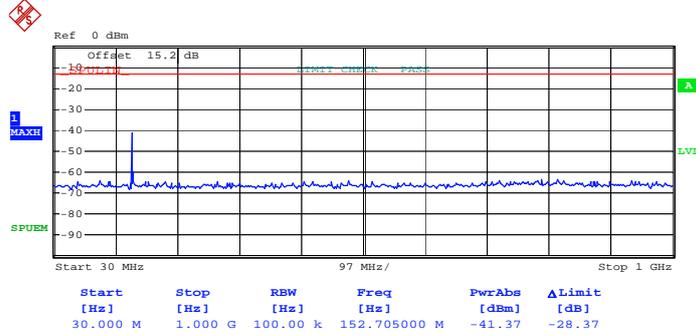


Date: 22.JAN.2013 14:34:01



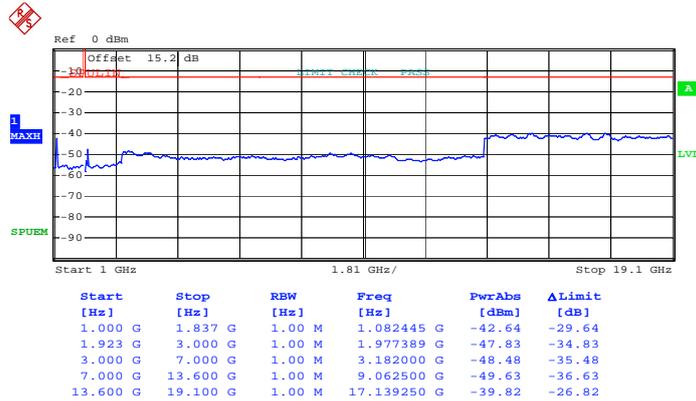
Band :	LTE Band 2	BW / Mod. :	20MHz / QPSK
Frequency :	1900	Channel :	19100

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



Date: 22.JAN.2013 15:21:13

Conducted Emission Plot (1GHz ~ 19GHz) for QPSK (RB Size 1, RB Offset 0)

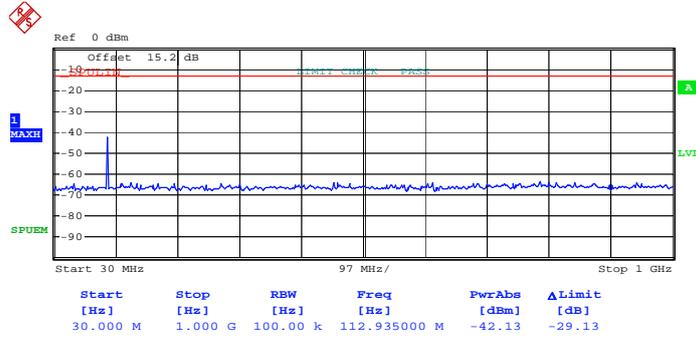


Date: 22.JAN.2013 15:19:57



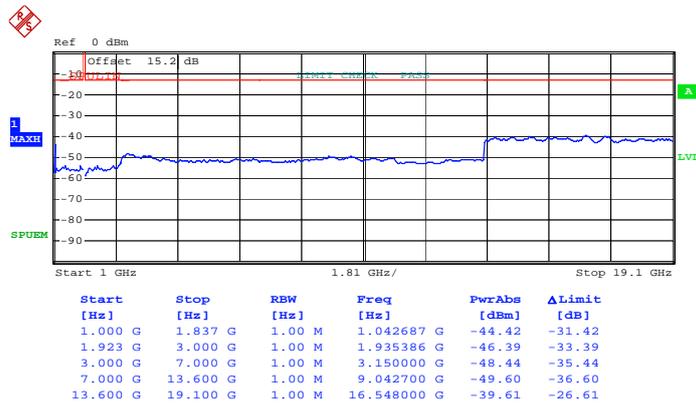
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / 16QAM
<b>Frequency :</b>	1860	<b>Channel :</b>	18700

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



Date: 22.JAN.2013 14:36:32

**Conducted Emission Plot (1GHz ~ 19GHz) for 16-QAM (RB Size 1, RB Offset 0)**

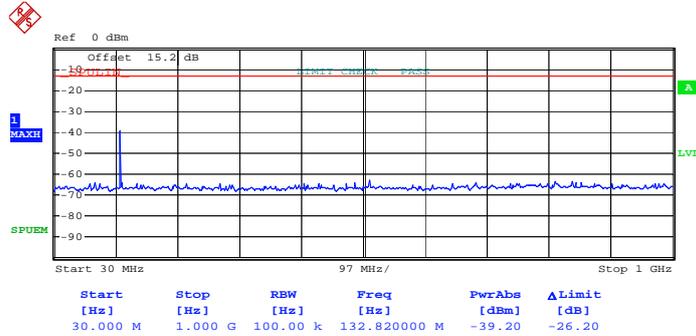


Date: 22.JAN.2013 14:37:44



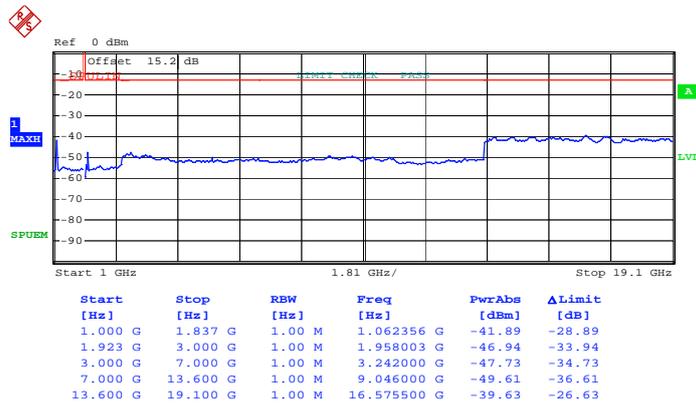
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / 16QAM
<b>Frequency :</b>	1880	<b>Channel :</b>	18900

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



Date: 22.JAN.2013 14:34:43

**Conducted Emission Plot (1GHz ~ 19GHz) for  
16-QAM (RB Size 1, RB Offset 0)**

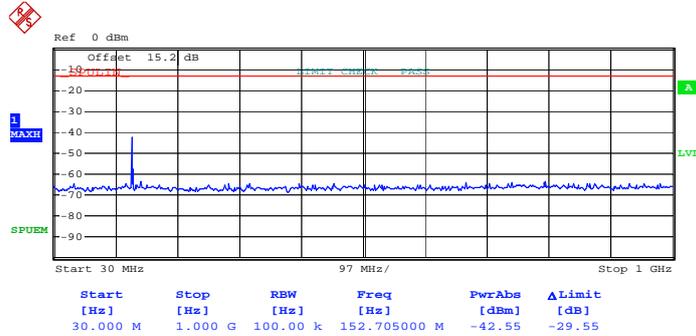


Date: 22.JAN.2013 14:33:42



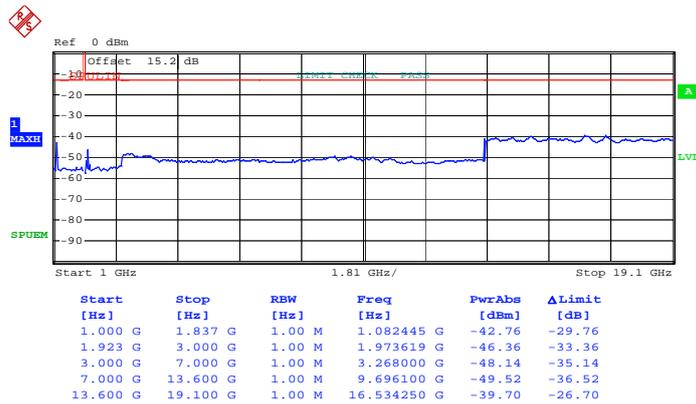
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / 16QAM
<b>Frequency :</b>	1900	<b>Channel :</b>	19100

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



Date: 22.JAN.2013 15:23:29

**Conducted Emission Plot (1GHz ~ 19GHz) for  
16-QAM (RB Size 1, RB Offset 0)**

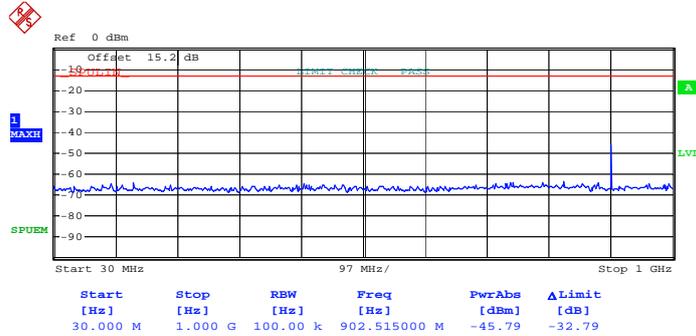


Date: 22.JAN.2013 15:19:34



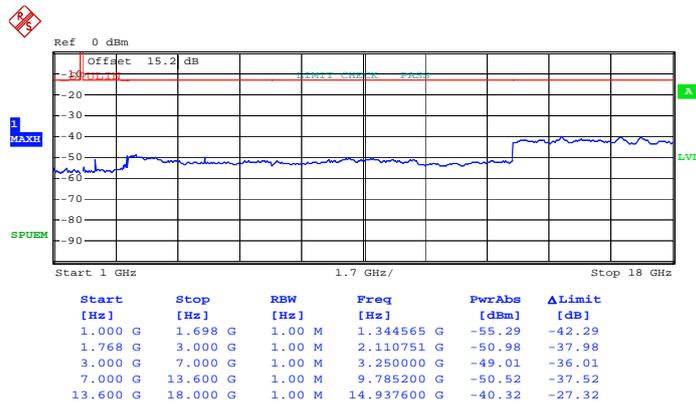
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / QPSK
<b>Frequency :</b>	1710.7	<b>Channel :</b>	19957

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 5)**



Date: 15.JAN.2013 11:41:04

**Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 5)**

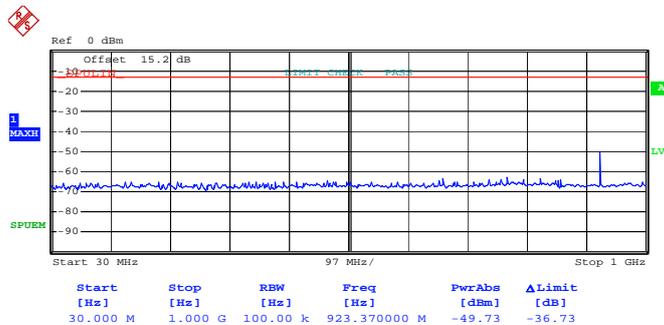


Date: 15.JAN.2013 11:40:33



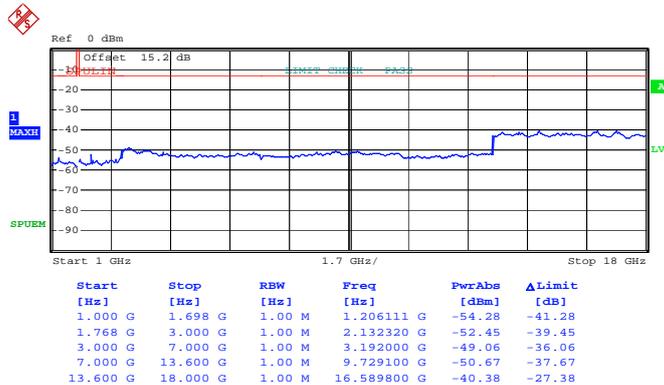
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / QPSK
<b>Frequency :</b>	1732.5	<b>Channel :</b>	20175

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



Date: 15.JAN.2013 12:01:14

**Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)**

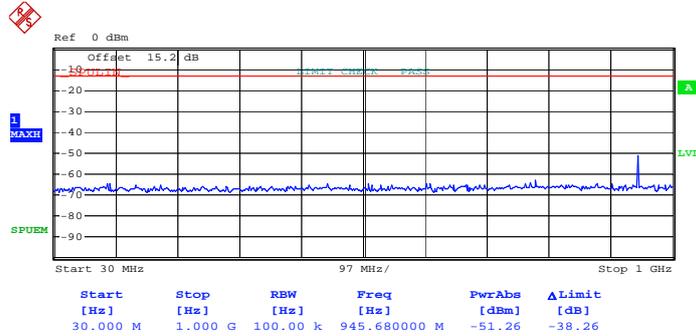


Date: 15.JAN.2013 12:00:11



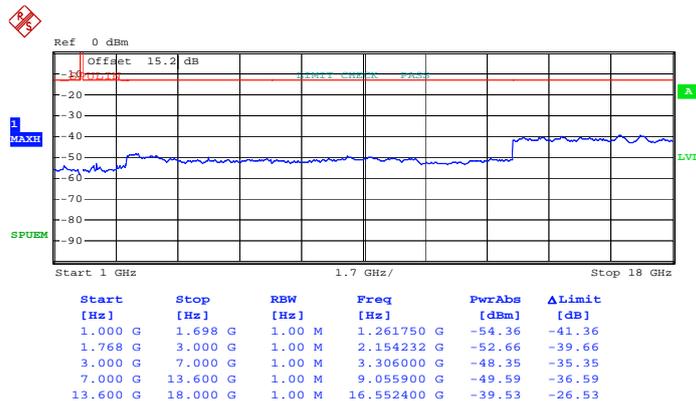
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
Frequency :	1754.3	Channel :	20393

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 2)



Date: 22.JAN.2013 16:03:38

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 2)

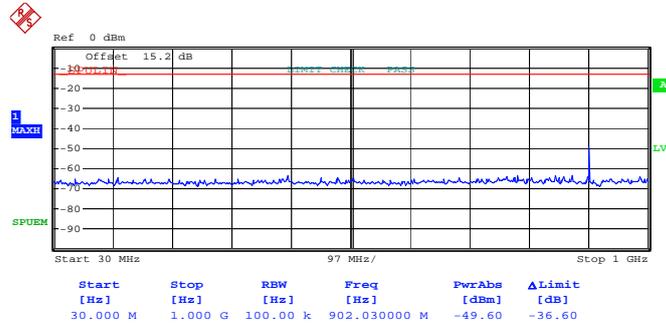


Date: 22.JAN.2013 16:04:00



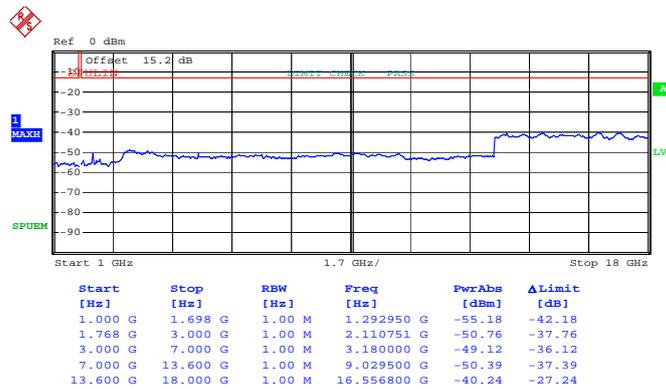
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
Frequency :	1710.7	Channel :	19957

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 3, RB Offset 1)



Date: 15.JAN.2013 11:41:41

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 3, RB Offset 1)

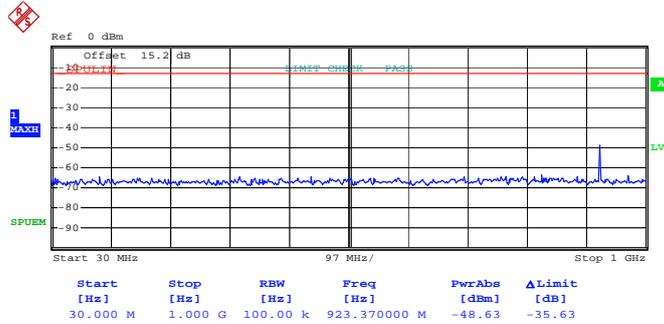


Date: 15.JAN.2013 11:39:56



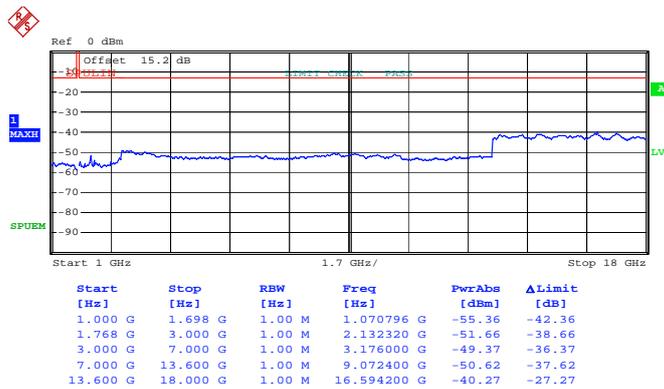
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	1732.5	<b>Channel :</b>	20175

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



Date: 15.JAN.2013 12:01:00

**Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)**

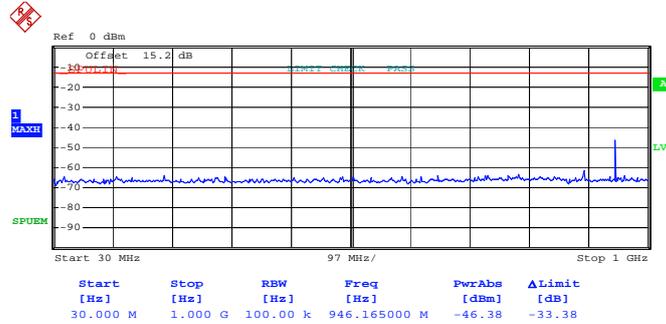


Date: 15.JAN.2013 12:00:35



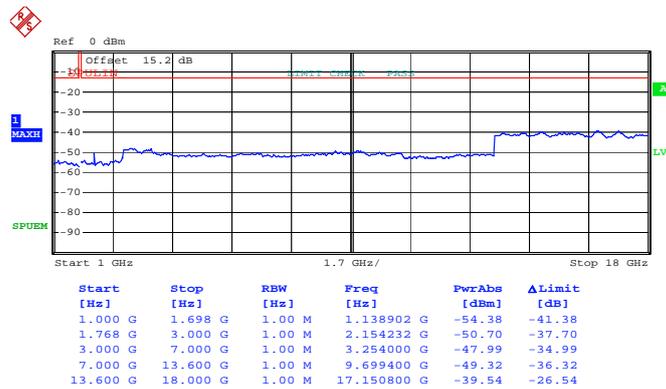
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	1754.3	<b>Channel :</b>	20393

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 5)



Date: 22.JAN.2013 16:04:53

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 5)

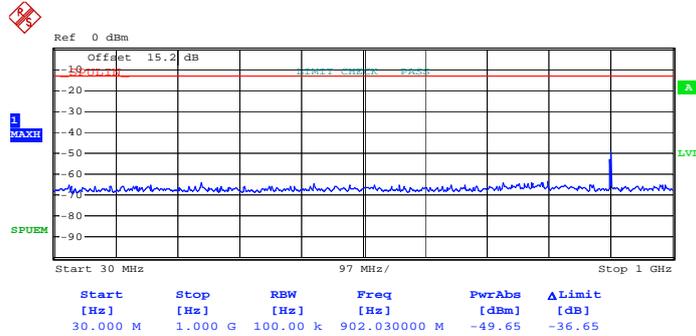


Date: 22.JAN.2013 16:04:31



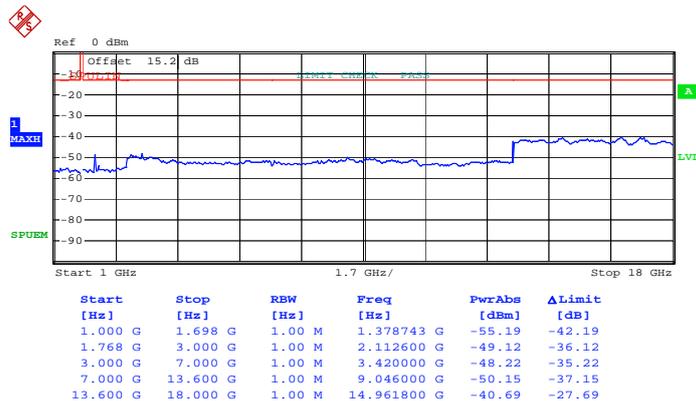
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
Frequency :	1711.5	Channel :	19965

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



Date: 15.JAN.2013 11:43:54

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

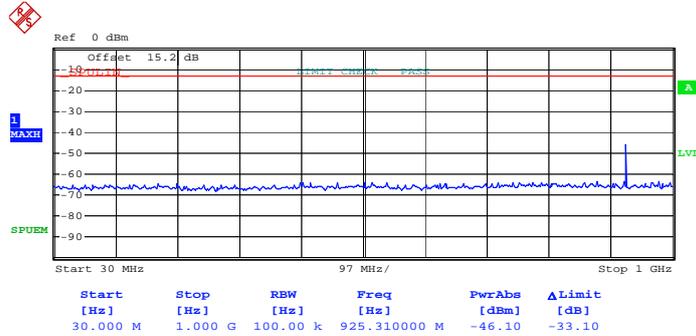


Date: 15.JAN.2013 11:44:31



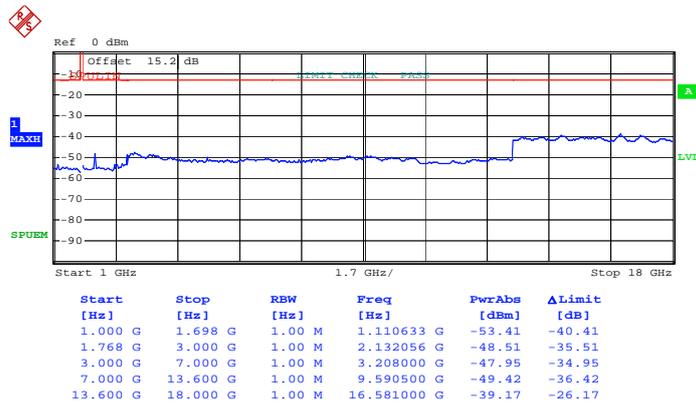
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 14)



Date: 22.JAN.2013 15:34:24

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 14)

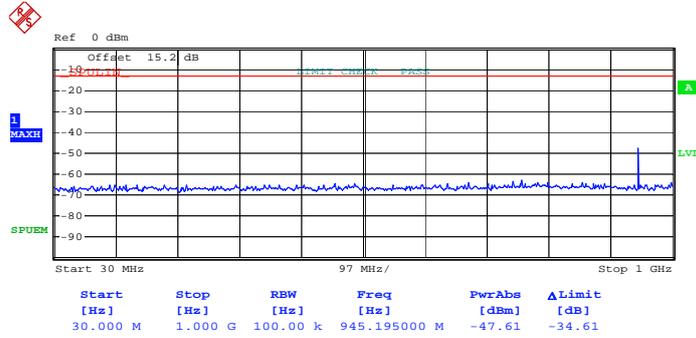


Date: 22.JAN.2013 15:34:03



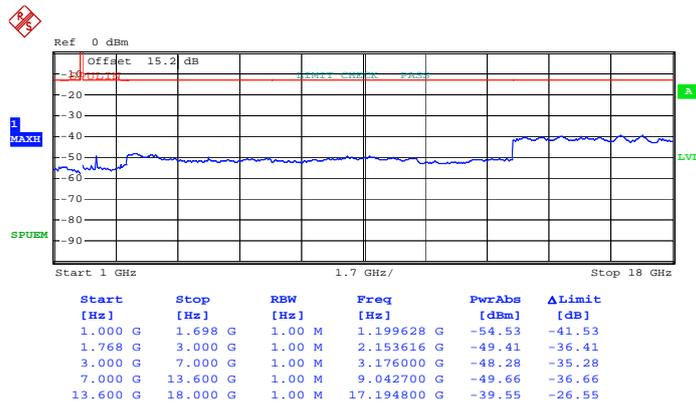
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
Frequency :	1753.5	Channel :	20385

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 7)



Date: 22.JAN.2013 16:02:53

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 7)

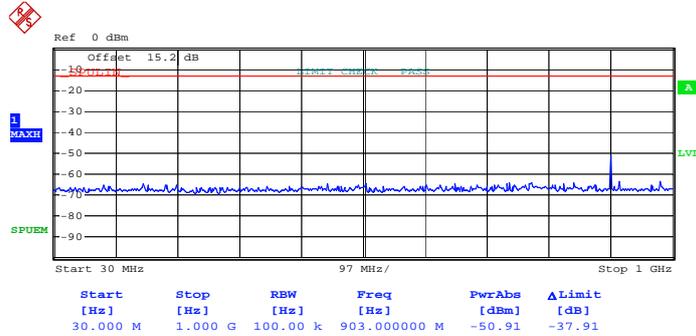


Date: 22.JAN.2013 16:02:22



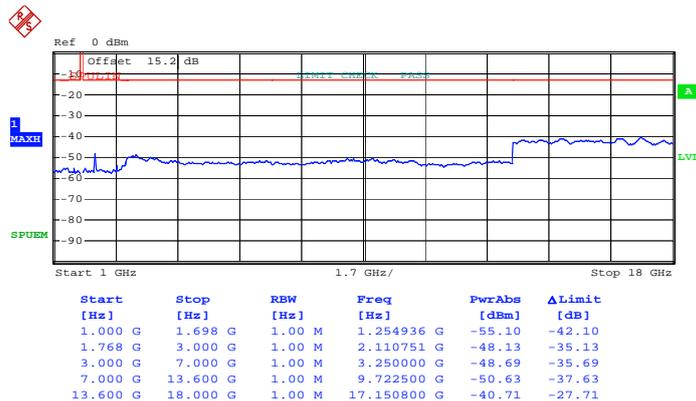
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
Frequency :	1711.5	Channel :	19965

Conducted Emission Plot (30MHz ~ 1GHz) for 16-QAM (RB Size 1, RB Offset 7)



Date: 15.JAN.2013 11:43:28

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 7)

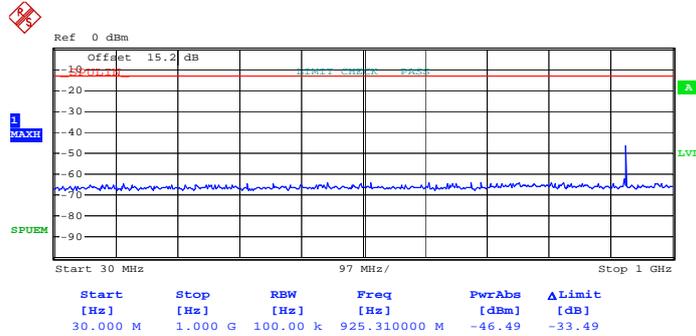


Date: 15.JAN.2013 11:44:57



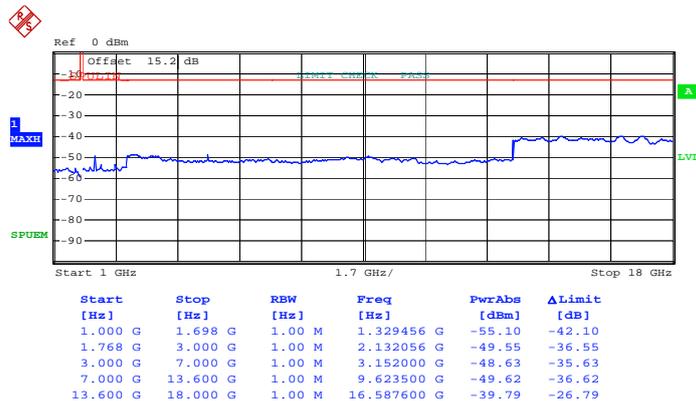
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 14)



Date: 22.JAN.2013 15:34:42

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 14)

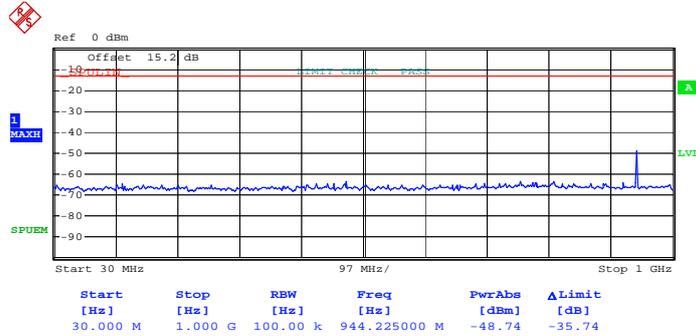


Date: 22.JAN.2013 15:33:32



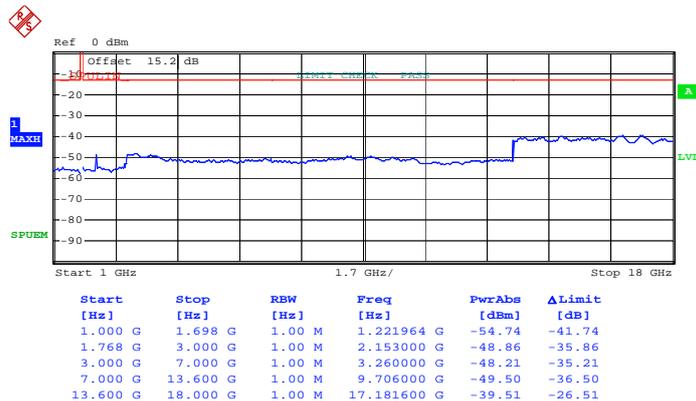
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
Frequency :	1753.5	Channel :	20385

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



Date: 22.JAN.2013 16:01:28

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 0)

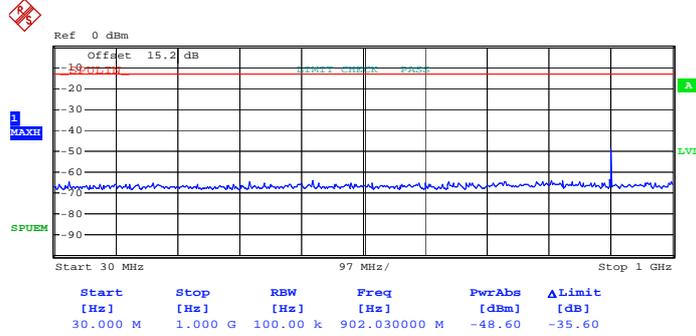


Date: 22.JAN.2013 16:01:48



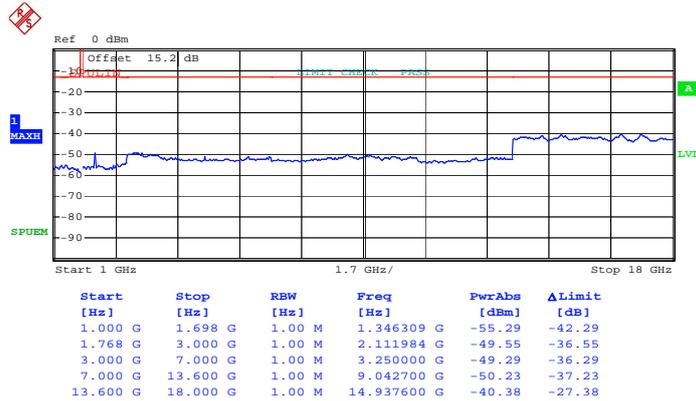
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
Frequency :	1712.5	Channel :	19975

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



Date: 15.JAN.2013 11:47:21

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

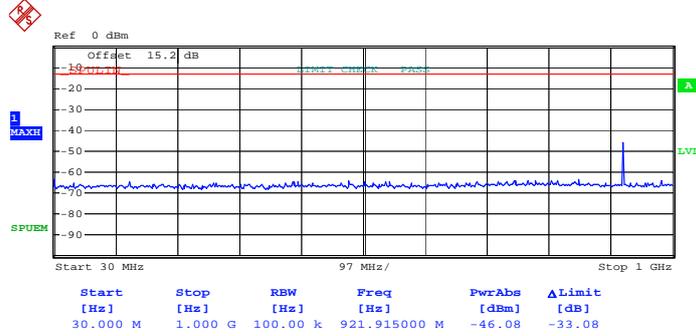


Date: 15.JAN.2013 11:46:47



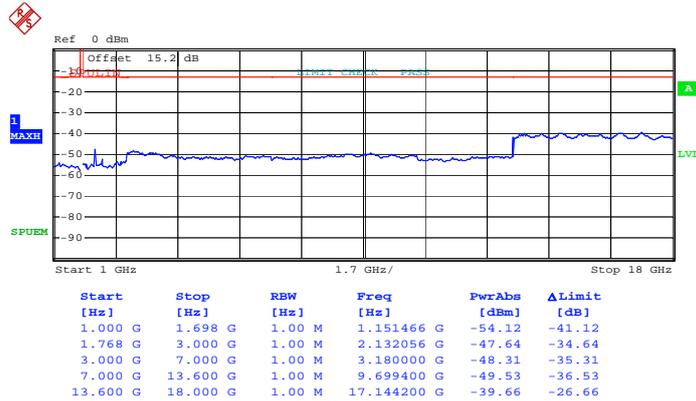
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
Frequency :	1732.5	Channel :	20175

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



Date: 22.JAN.2013 15:35:37

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

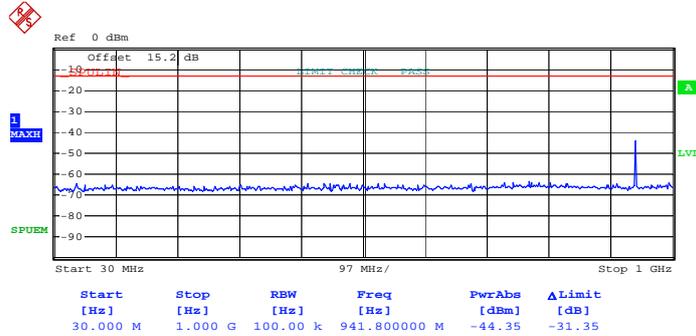


Date: 22.JAN.2013 15:41:49



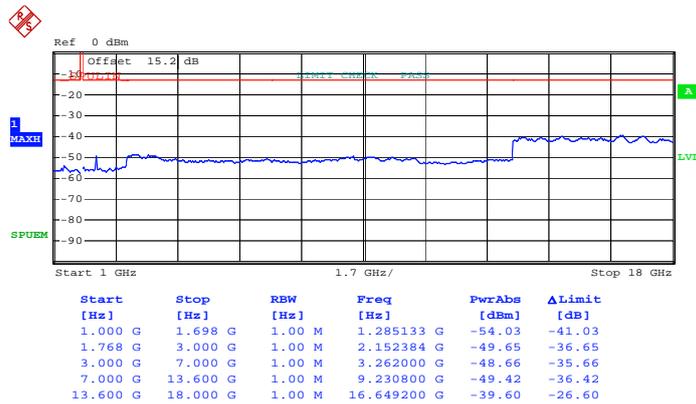
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
Frequency :	1752.5	Channel :	20375

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



Date: 22.JAN.2013 16:00:30

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

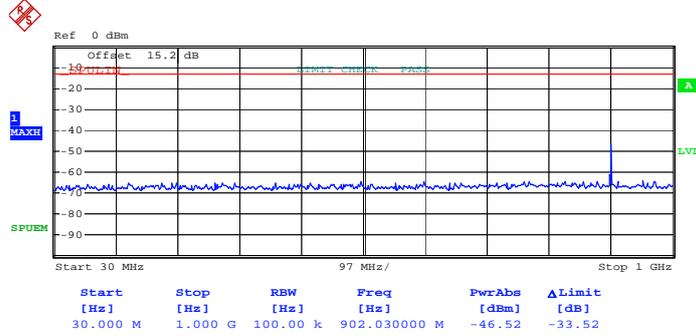


Date: 22.JAN.2013 16:00:09



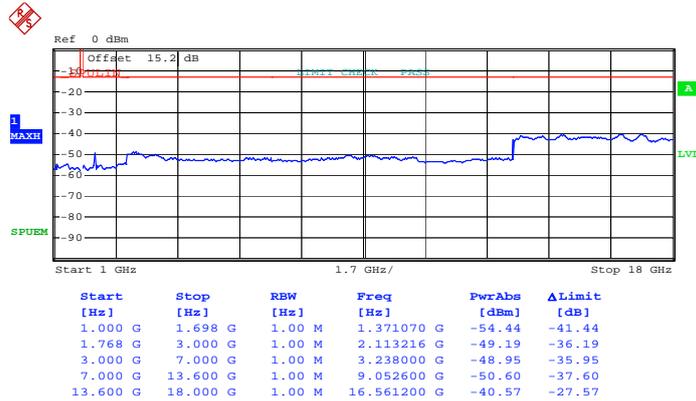
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
Frequency :	1712.5	Channel :	19975

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



Date: 15.JAN.2013 11:47:39

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

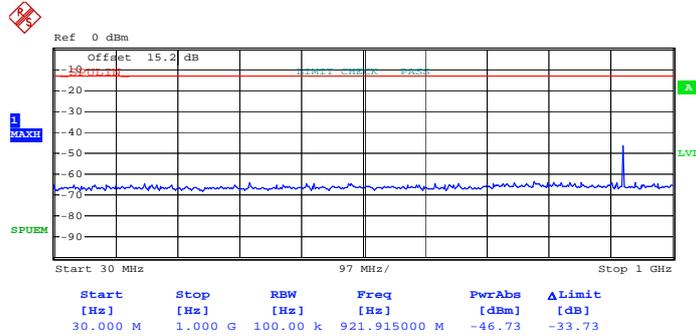


Date: 15.JAN.2013 11:46:28



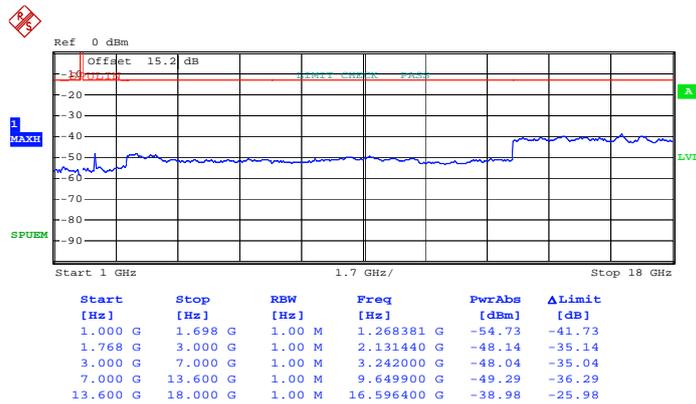
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
Frequency :	1732.5	Channel :	20175

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



Date: 22.JAN.2013 15:35:14

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 0)

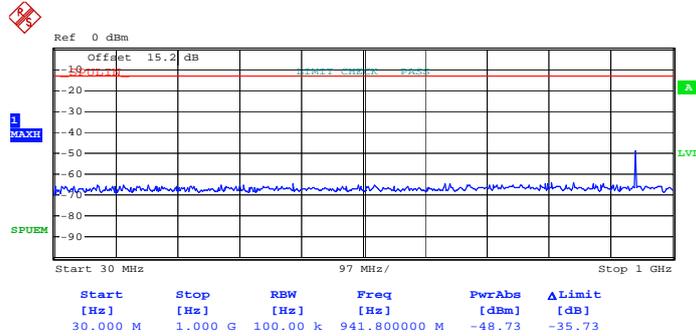


Date: 22.JAN.2013 15:42:16



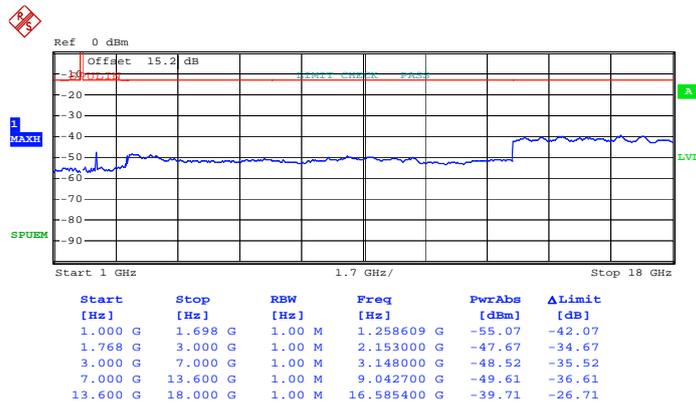
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
Frequency :	1752.5	Channel :	20375

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



Date: 22.JAN.2013 16:00:50

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

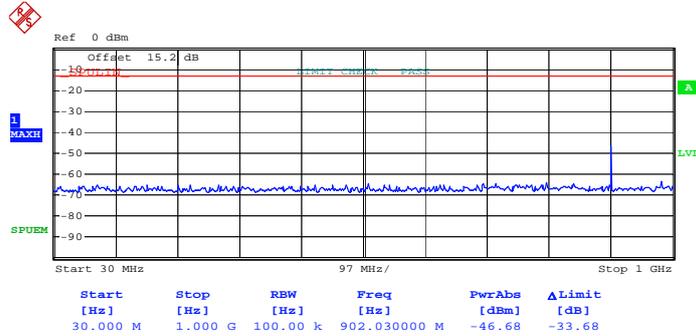


Date: 22.JAN.2013 15:59:43



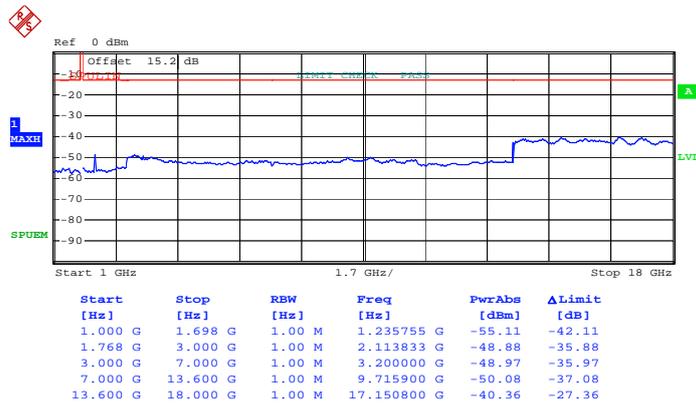
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
Frequency :	1715	Channel :	20000

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



Date: 15.JAN.2013 11:49:08

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

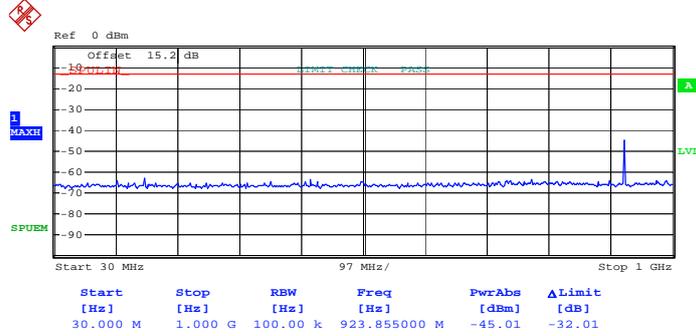


Date: 15.JAN.2013 11:50:24



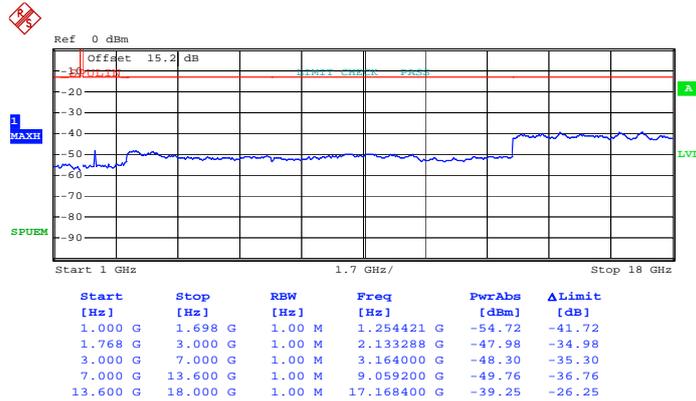
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 24)



Date: 22.JAN.2013 15:43:34

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 24)

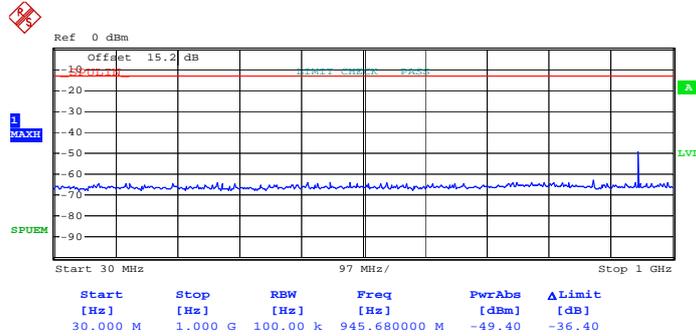


Date: 22.JAN.2013 15:43:11



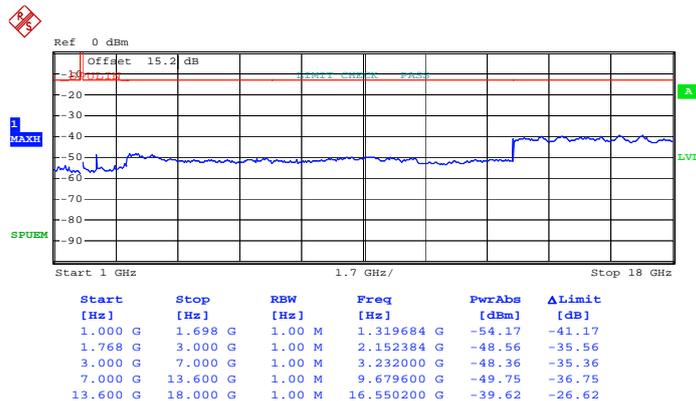
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
Frequency :	1750	Channel :	20350

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 49)



Date: 22.JAN.2013 15:57:52

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 49)

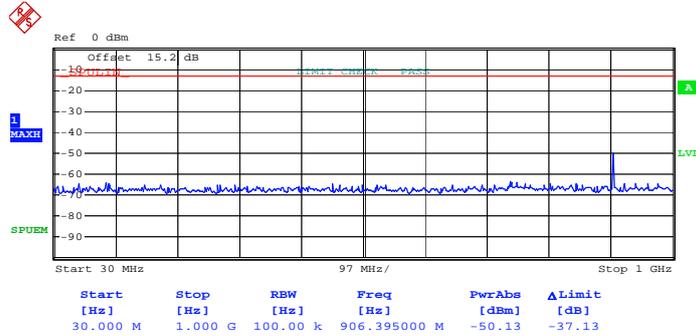


Date: 22.JAN.2013 15:57:28



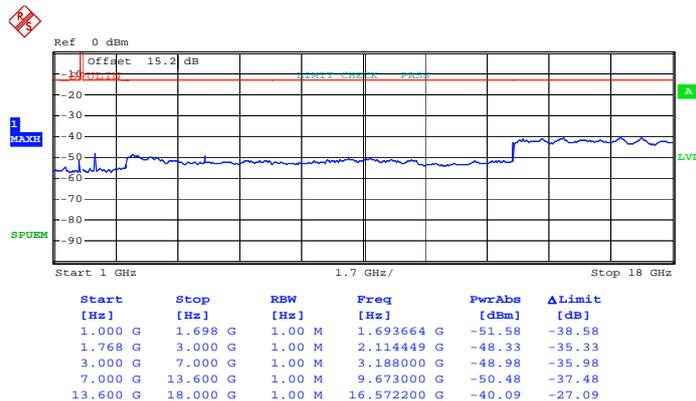
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
Frequency :	1715	Channel :	20000

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 24)



Date: 15.JAN.2013 11:48:47

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 24)

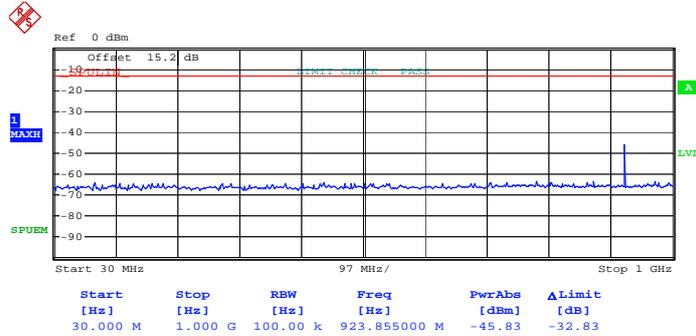


Date: 15.JAN.2013 11:49:48



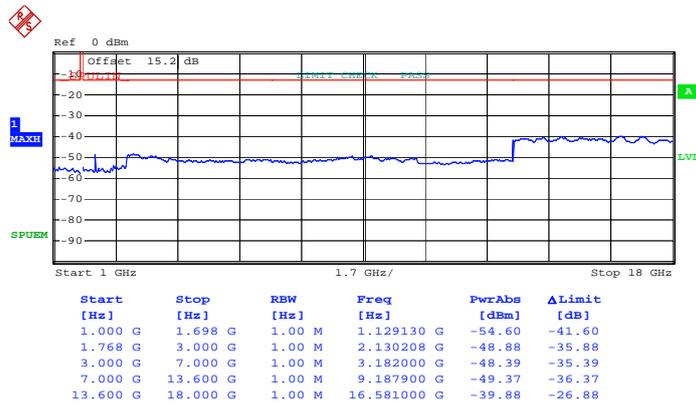
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 24)



Date: 22.JAN.2013 15:43:52

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 24)

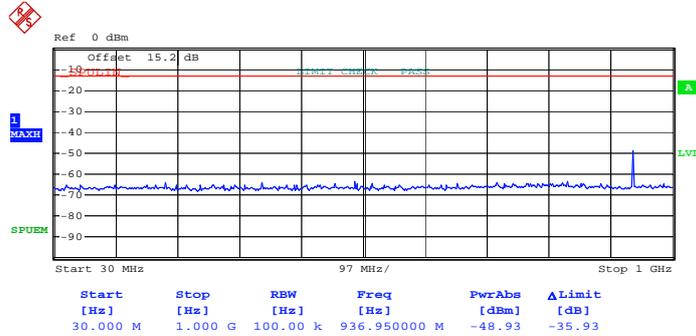


Date: 22.JAN.2013 15:42:52



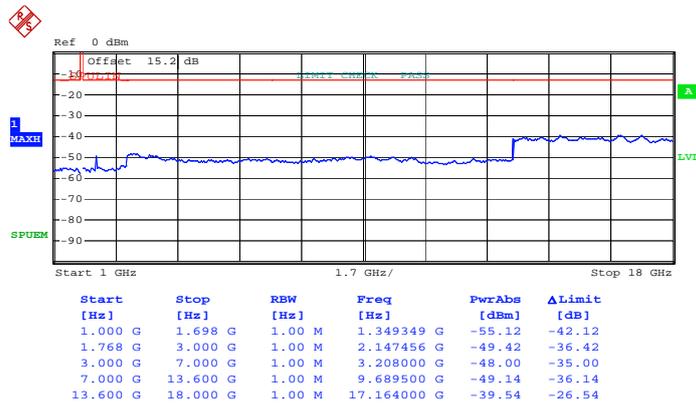
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
Frequency :	1750	Channel :	20350

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



Date: 22.JAN.2013 15:58:17

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 0)

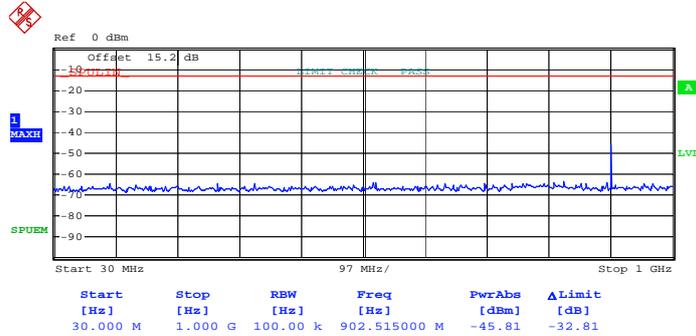


Date: 22.JAN.2013 15:58:49



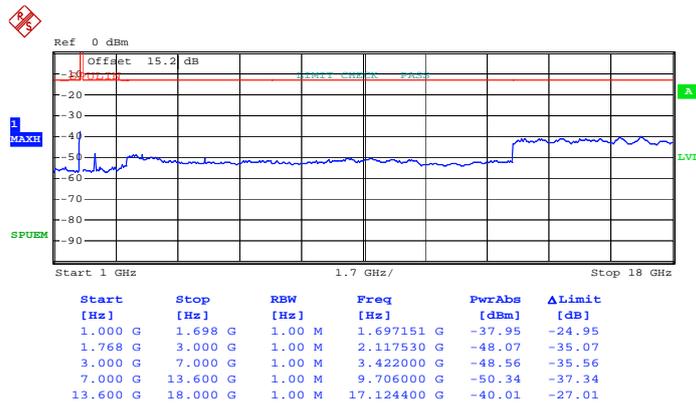
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
Frequency :	1717.5	Channel :	20025

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



Date: 15.JAN.2013 11:52:42

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

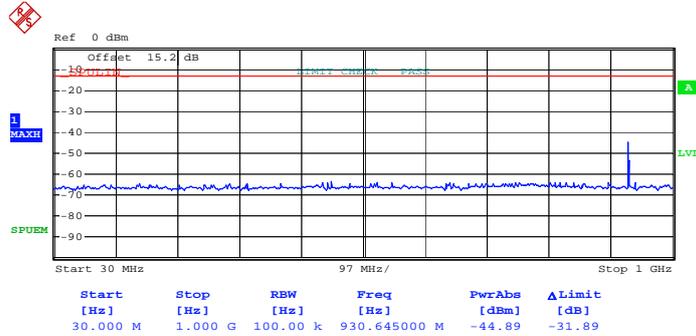


Date: 15.JAN.2013 11:51:30



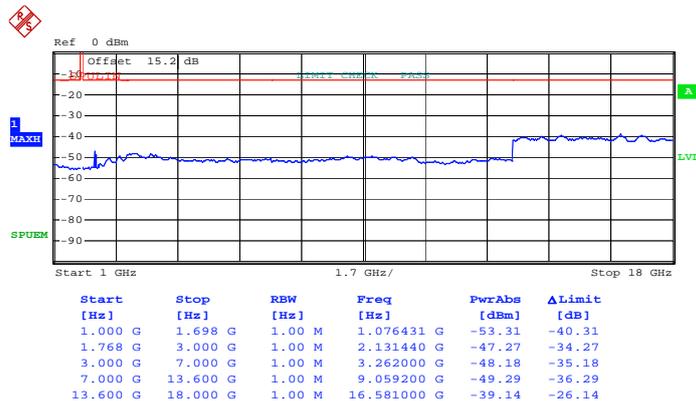
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 74)



Date: 22.JAN.2013 15:45:02

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 74)

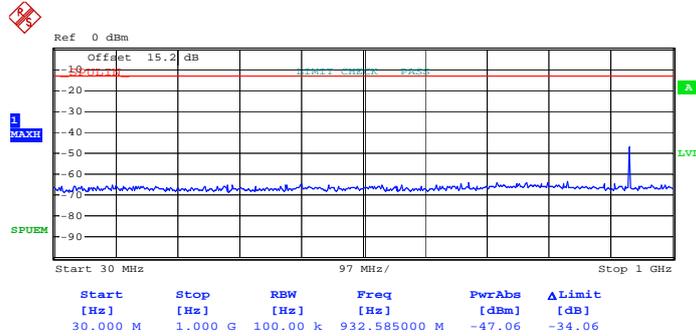


Date: 22.JAN.2013 15:45:47



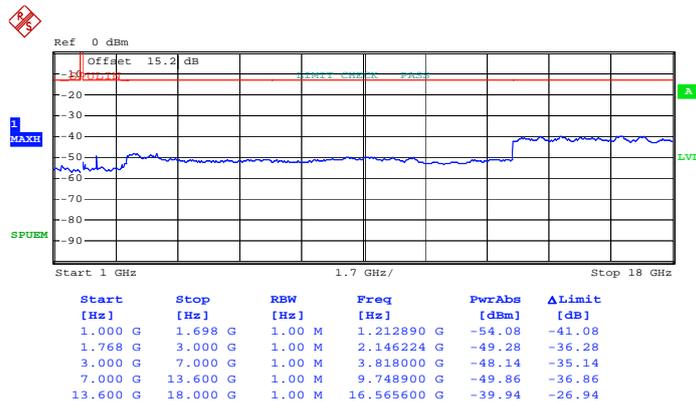
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
Frequency :	1747.5	Channel :	20325

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



Date: 22.JAN.2013 15:55:24

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

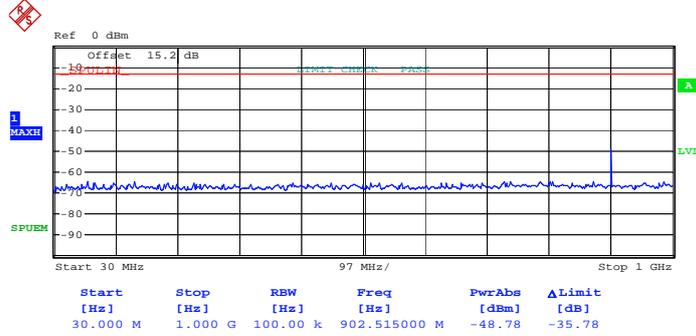


Date: 22.JAN.2013 15:56:42



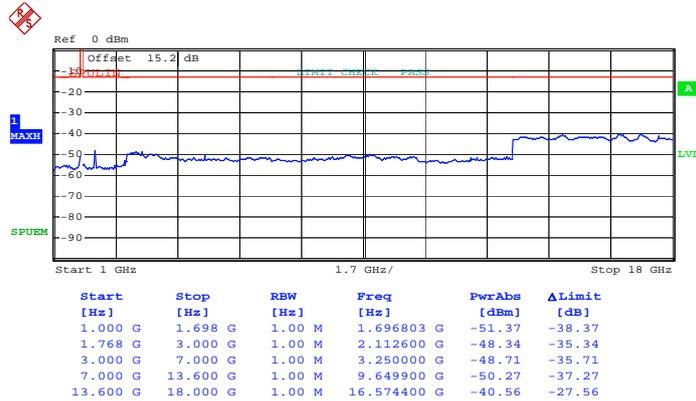
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
Frequency :	1717.5	Channel :	20025

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



Date: 15.JAN.2013 11:52:28

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 0)

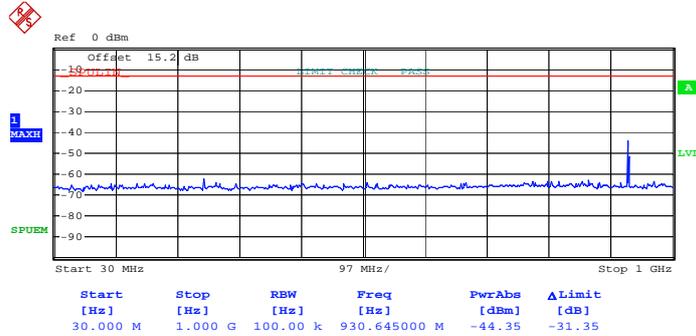


Date: 15.JAN.2013 11:52:00



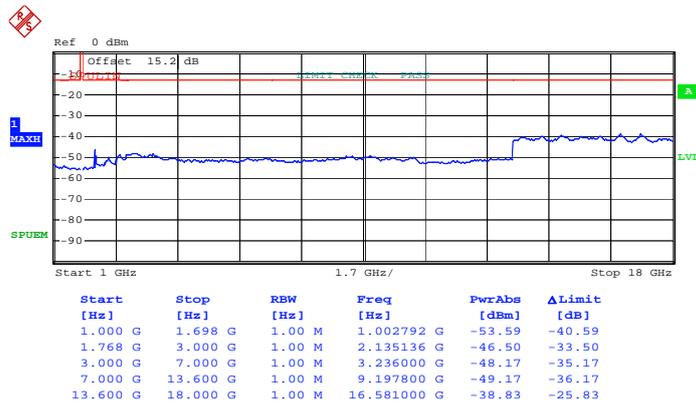
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 74)



Date: 22.JAN.2013 15:44:36

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 74)

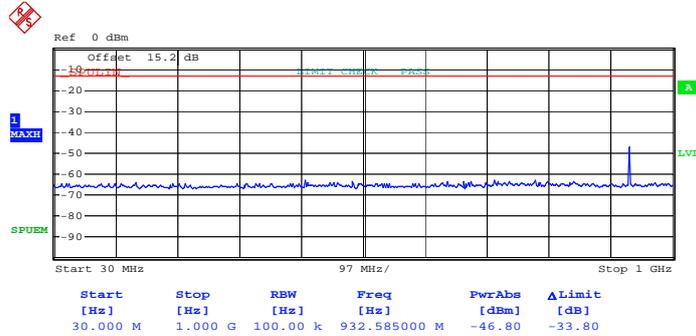


Date: 22.JAN.2013 15:46:25



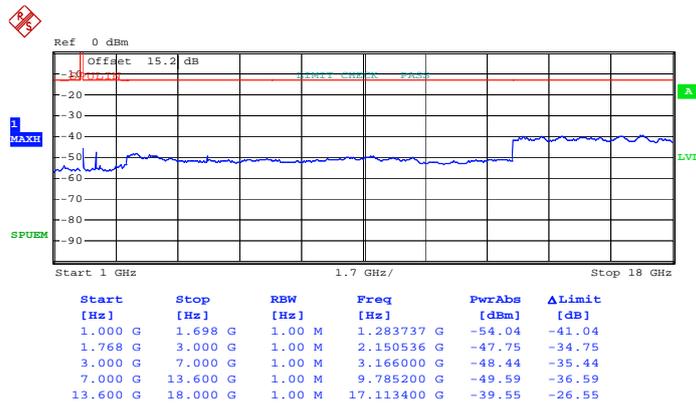
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
Frequency :	1747.5	Channel :	20325

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



Date: 22.JAN.2013 15:55:57

Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 0)

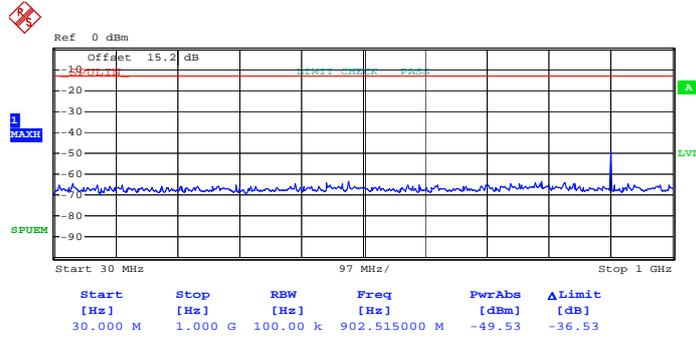


Date: 22.JAN.2013 15:56:23



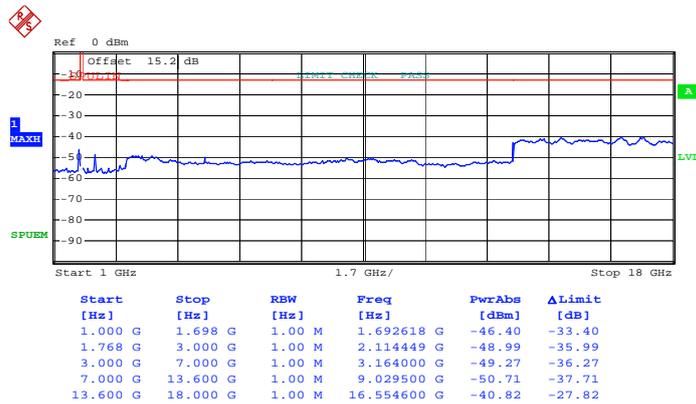
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
Frequency :	1720	Channel :	20050

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



Date: 15.JAN.2013 11:54:17

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

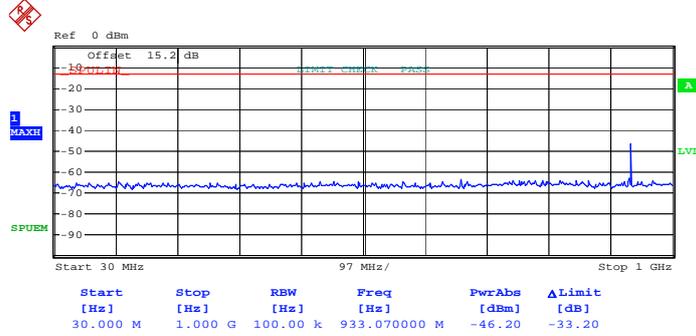


Date: 15.JAN.2013 11:58:08



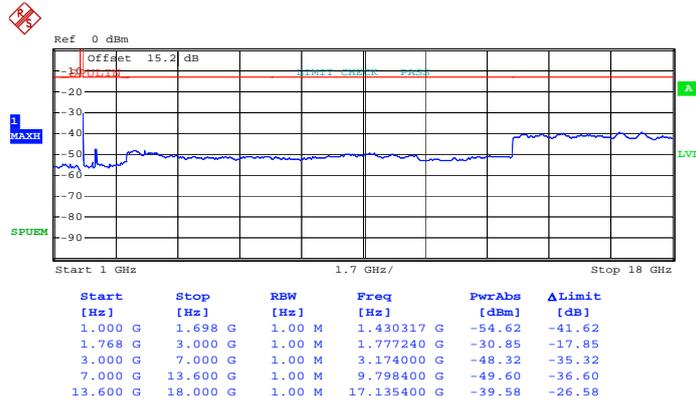
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
Frequency :	1732.5	Channel :	20175

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 99)



Date: 22.JAN.2013 15:51:10

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 99)

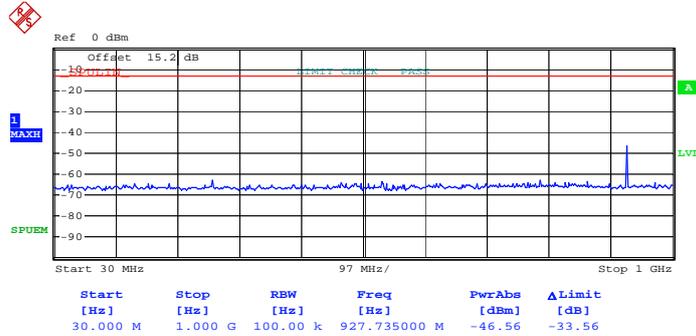


Date: 22.JAN.2013 15:51:39



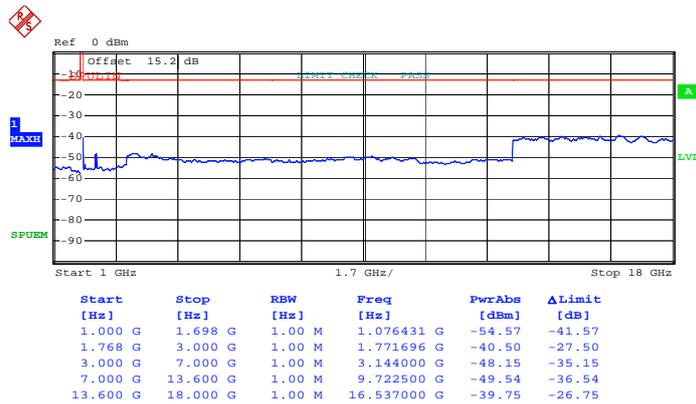
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
Frequency :	1745	Channel :	20300

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



Date: 22.JAN.2013 15:54:46

Conducted Emission Plot (1GHz ~ 18GHz) for QPSK (RB Size 1, RB Offset 0)

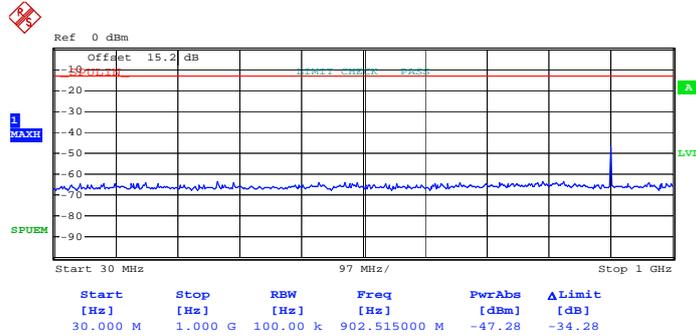


Date: 22.JAN.2013 15:53:39



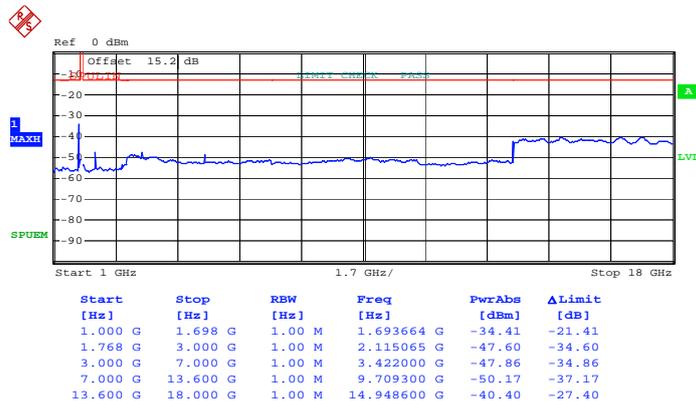
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
Frequency :	1720	Channel :	20050

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



Date: 15.JAN.2013 11:56:04

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

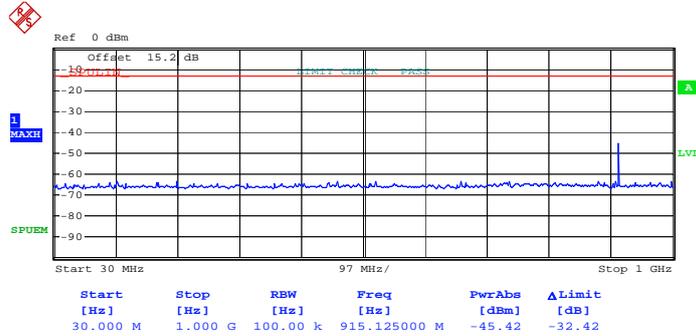


Date: 15.JAN.2013 11:57:49



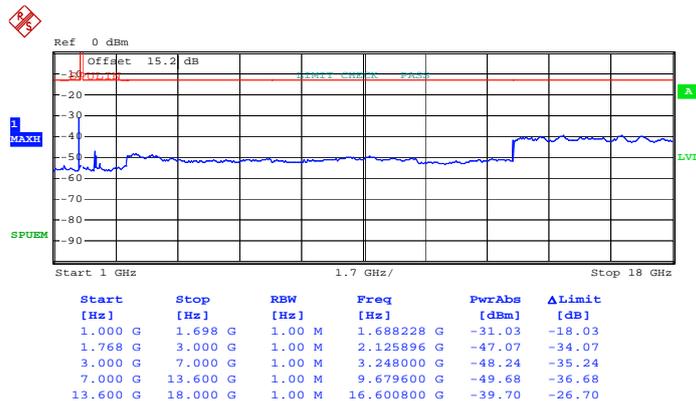
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
Frequency :	1732.5	Channel :	20175

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



Date: 22.JAN.2013 15:50:41

Conducted Emission Plot (1GHz ~ 18GHz) for 16-QAM (RB Size 1, RB Offset 0)

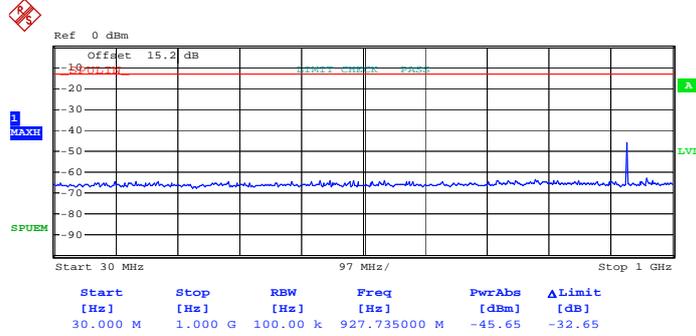


Date: 22.JAN.2013 15:49:54



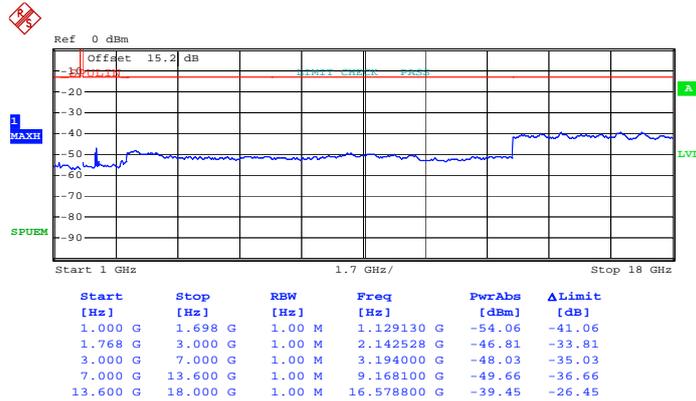
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	20MHz / 16QAM
<b>Frequency :</b>	1745	<b>Channel :</b>	20300

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



Date: 22.JAN.2013 15:54:28

**Conducted Emission Plot (1GHz ~ 18GHz) for  
16-QAM (RB Size 1, RB Offset 0)**

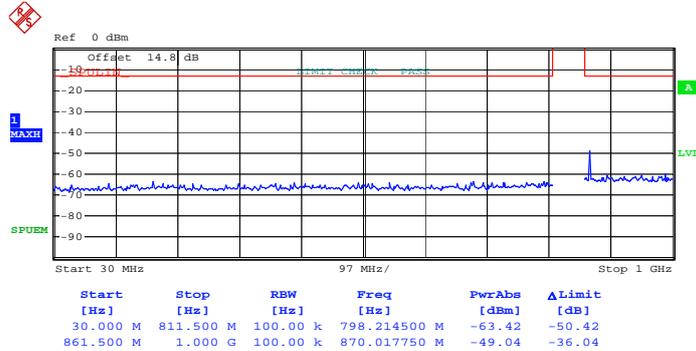


Date: 22.JAN.2013 15:54:00



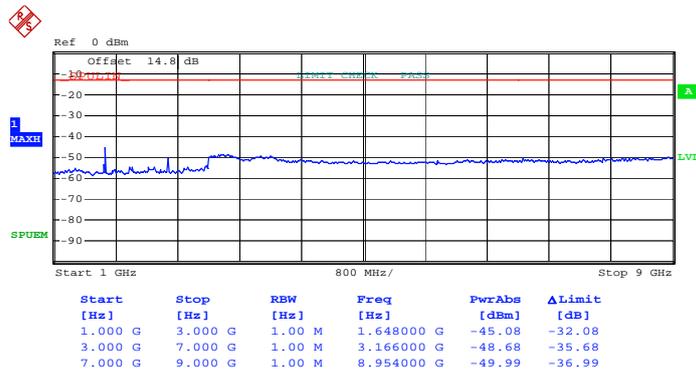
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
Frequency :	824.7	Channel :	20407

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



Date: 22.JAN.2013 09:31:06

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

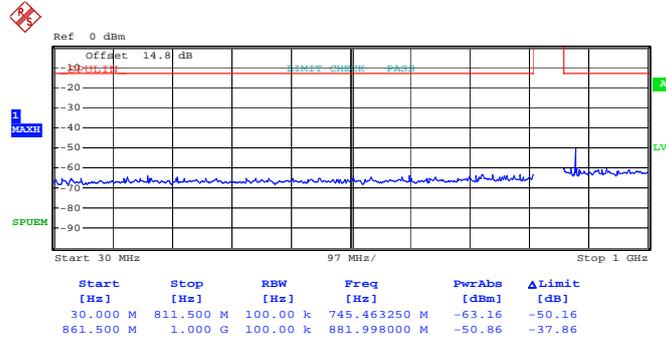


Date: 22.JAN.2013 09:30:35



<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	1.4MHz / QPSK
<b>Frequency :</b>	836.5	<b>Channel :</b>	20525

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



Date: 22.JAN.2013 09:53:41

**Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)**

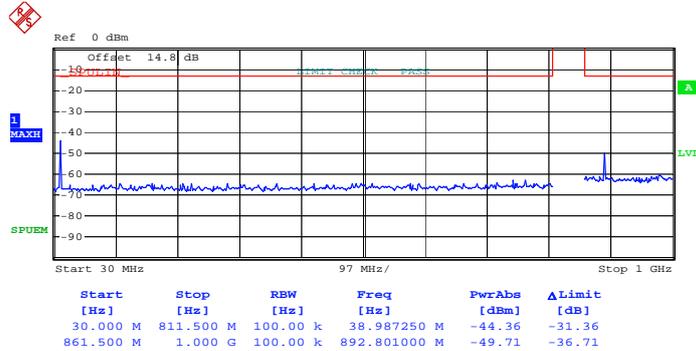


Date: 22.JAN.2013 09:52:01



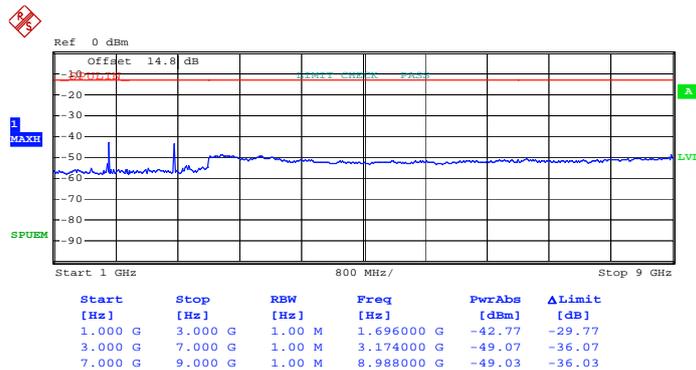
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
Frequency :	848.3	Channel :	20643

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



Date: 22.JAN.2013 09:34:44

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

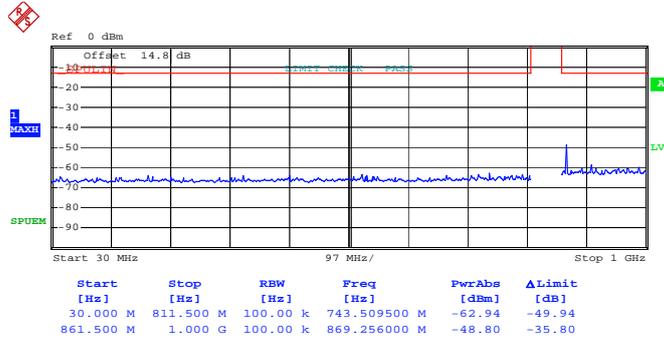


Date: 22.JAN.2013 09:35:05



<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	824.7	<b>Channel :</b>	20407

**Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 5)**



Date: 22.JAN.2013 09:31:39

**Conducted Emission Plot (1GHz ~ 9GHz) for  
16-QAM (RB Size 1, RB Offset 5)**

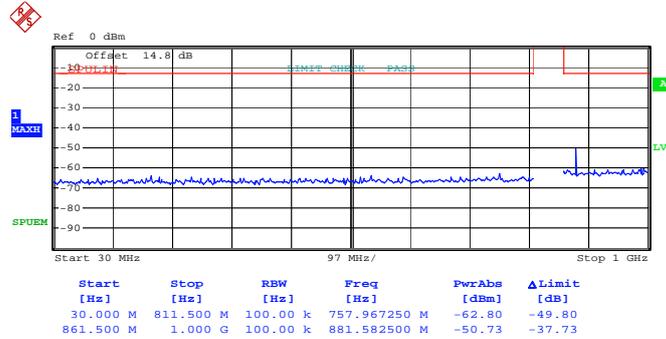


Date: 22.JAN.2013 09:32:11



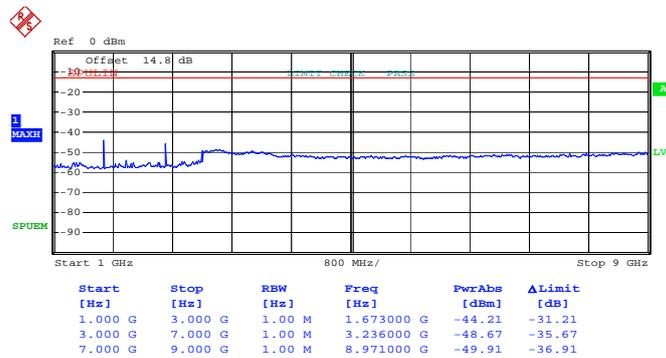
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	1.4MHz / 16QAM
<b>Frequency :</b>	836.5	<b>Channel :</b>	20525

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



Date: 22.JAN.2013 09:54:01

**Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)**

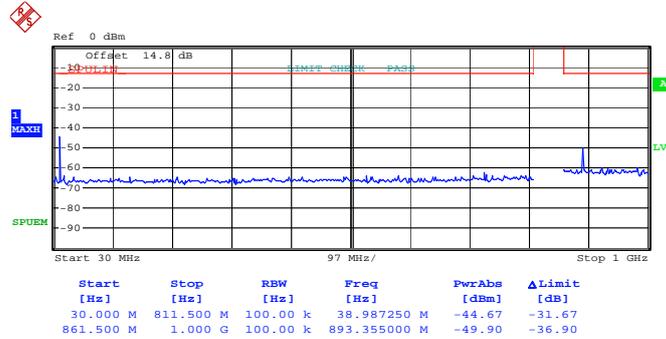


Date: 22.JAN.2013 09:52:26



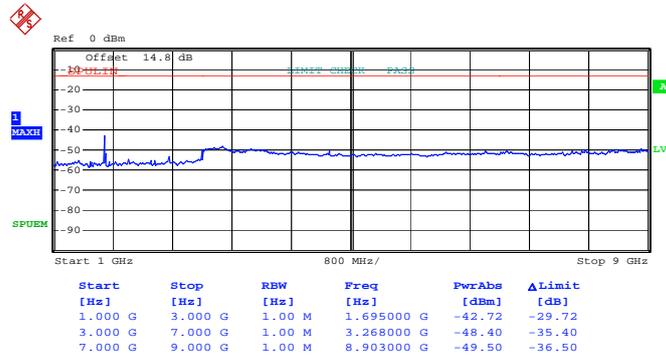
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
Frequency :	848.3	Channel :	20643

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



Date: 22.JAN.2013 09:34:24

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

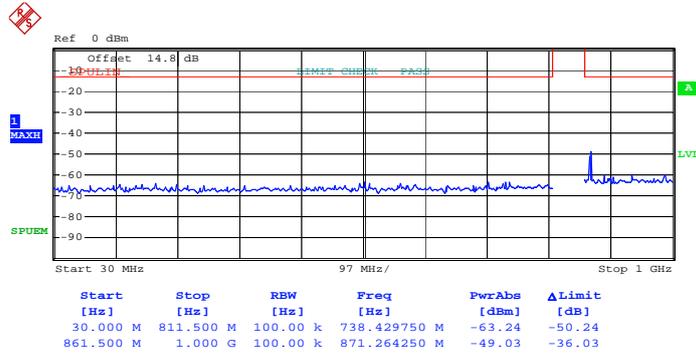


Date: 22.JAN.2013 09:34:05



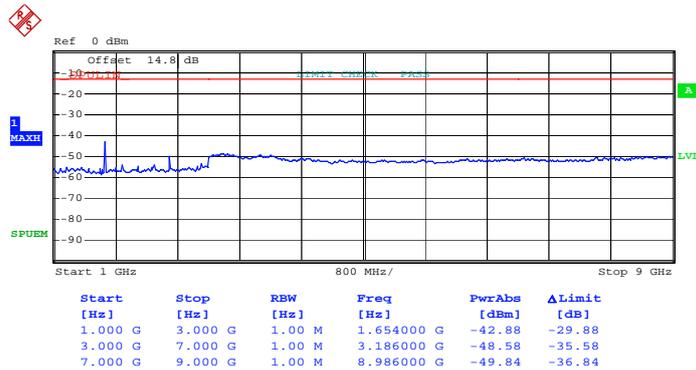
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
Frequency :	825.5	Channel :	20415

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 14)



Date: 22.JAN.2013 09:29:28

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 14)

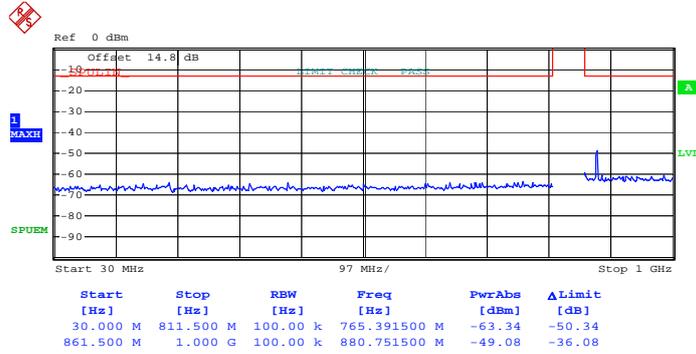


Date: 22.JAN.2013 09:29:52



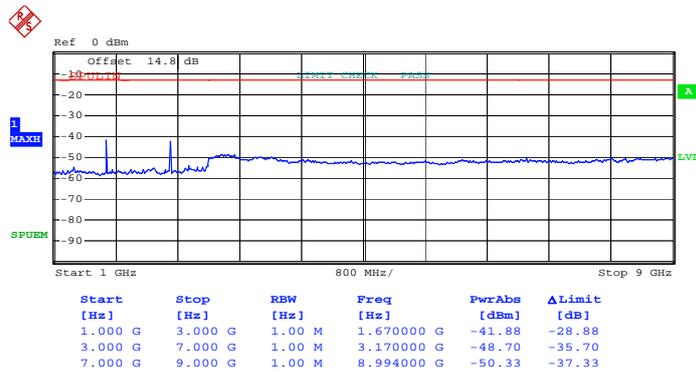
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
Frequency :	836.5	Channel :	20525

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



Date: 22.JAN.2013 09:46:48

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

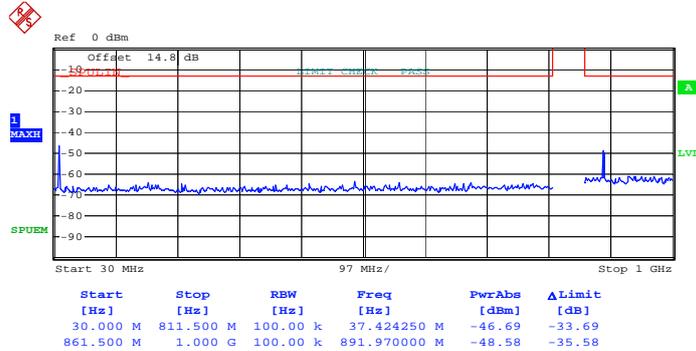


Date: 22.JAN.2013 09:50:10



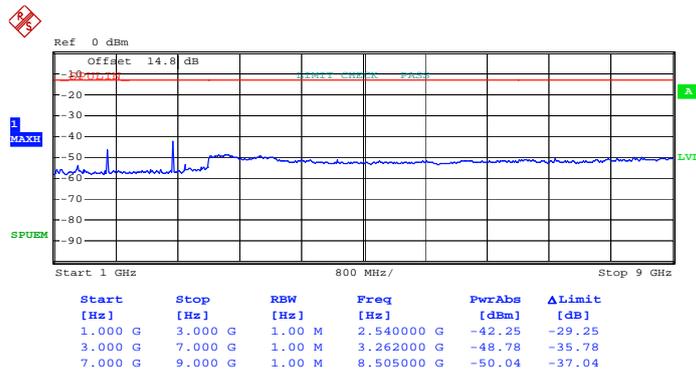
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
Frequency :	847.5	Channel :	20635

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



Date: 22.JAN.2013 09:36:00

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

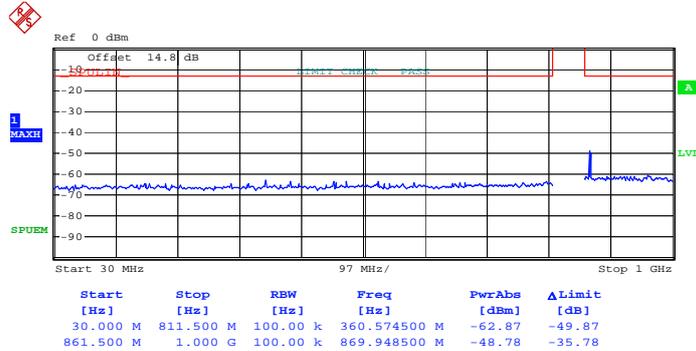


Date: 22.JAN.2013 09:35:41



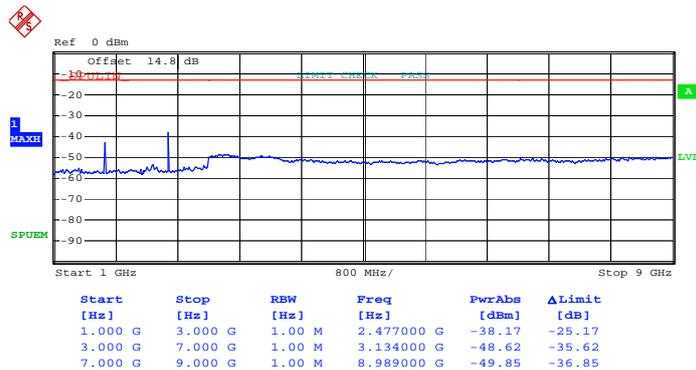
Band :	LTE Band 5	BW / Mod. :	3MHz / 16QAM
Frequency :	825.5	Channel :	20415

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 7)



Date: 22.JAN.2013 09:29:00

Conducted Emission Plot (1GHz ~ 9GHz) for  
16-QAM (RB Size 1, RB Offset 7)

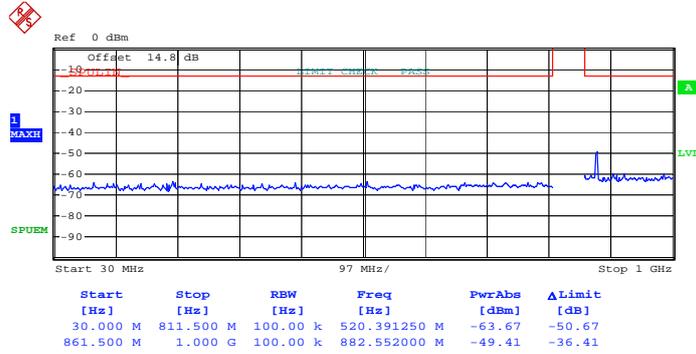


Date: 22.JAN.2013 09:28:27



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: 22.JAN.2013 09:46:23

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

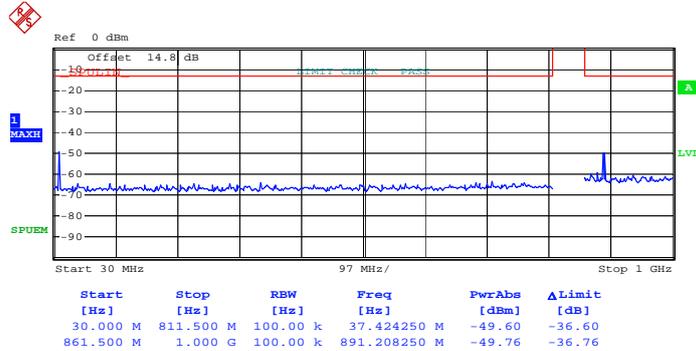


Date: 22.JAN.2013 09:45:59



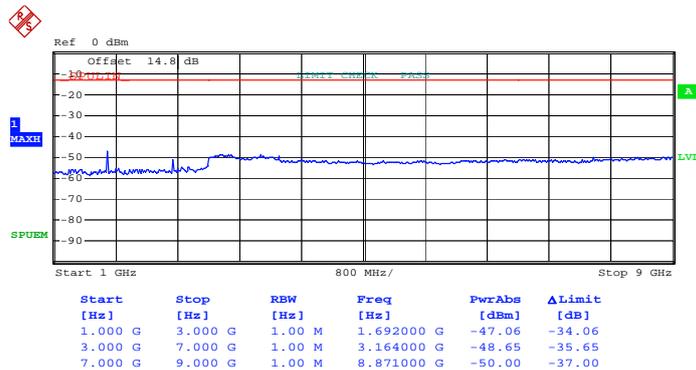
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	3MHz / 16QAM
<b>Frequency :</b>	847.5	<b>Channel :</b>	20635

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



Date: 22.JAN.2013 09:36:19

**Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)**

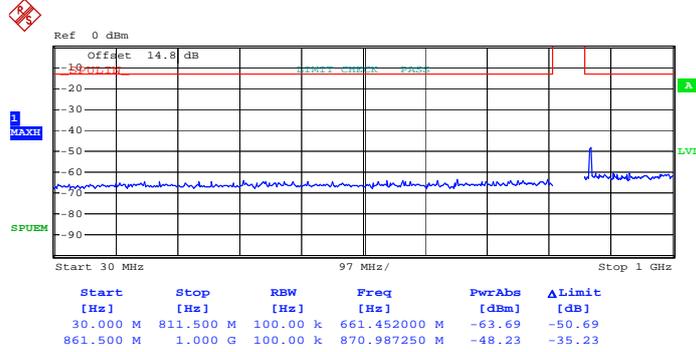


Date: 22.JAN.2013 09:36:36



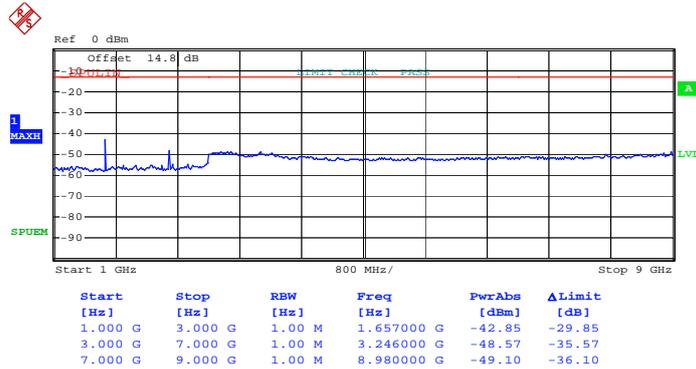
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
Frequency :	826.5	Channel :	20425

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 24)



Date: 22.JAN.2013 09:26:44

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 24)

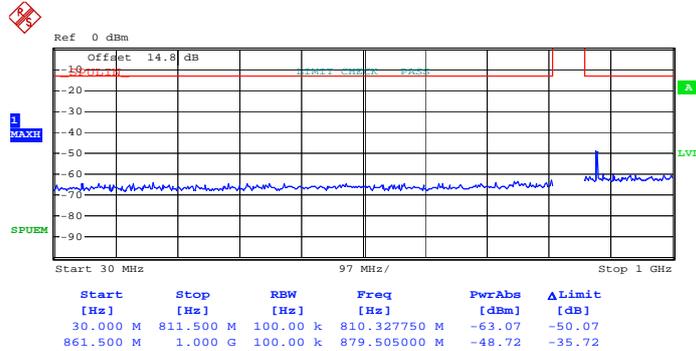


Date: 22.JAN.2013 09:26:13



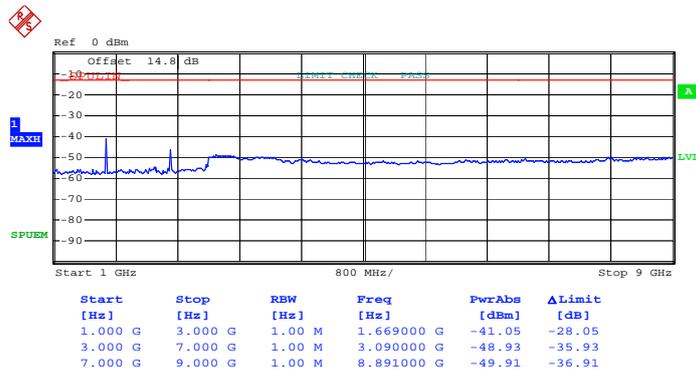
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
Frequency :	836.5	Channel :	20525

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



Date: 22.JAN.2013 09:44:51

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

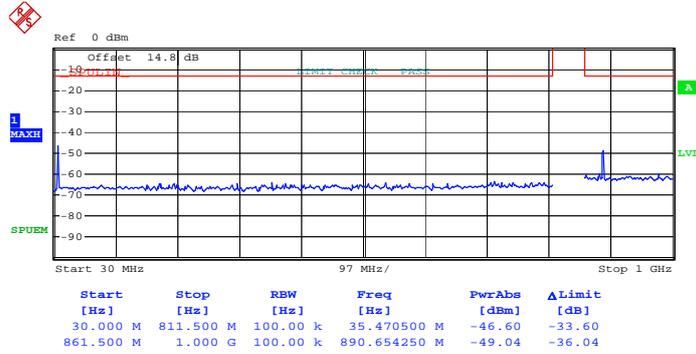


Date: 22.JAN.2013 09:44:27



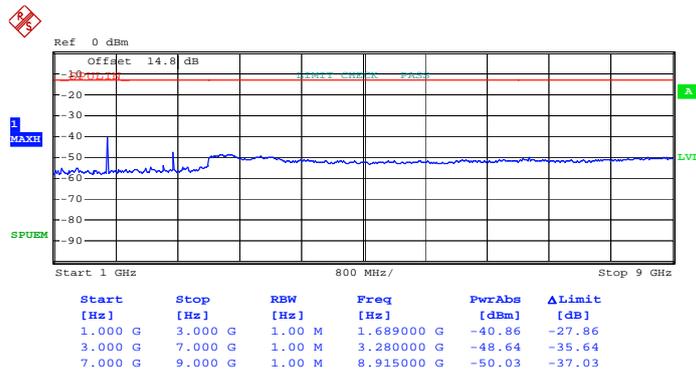
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	5MHz / QPSK
<b>Frequency :</b>	846.5	<b>Channel :</b>	20625

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



Date: 22.JAN.2013 09:38:08

**Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)**

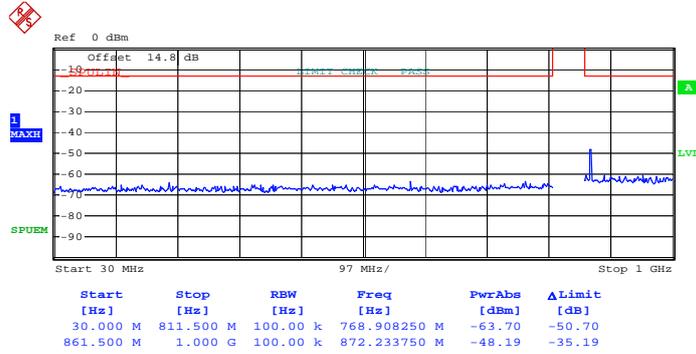


Date: 22.JAN.2013 09:38:32



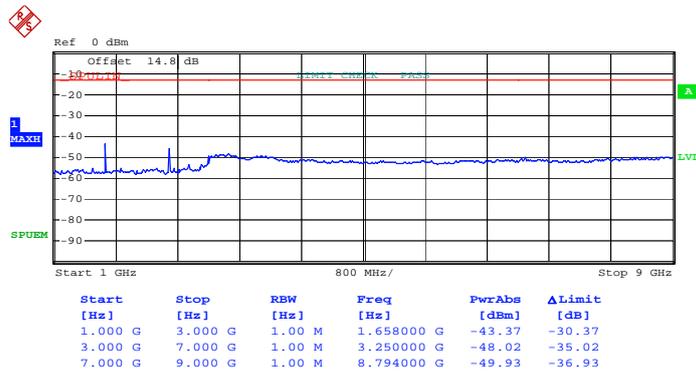
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
Frequency :	826.5	Channel :	20425

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 24)



Date: 22.JAN.2013 09:27:12

Conducted Emission Plot (1GHz ~ 9GHz) for  
16-QAM (RB Size 1, RB Offset 24)

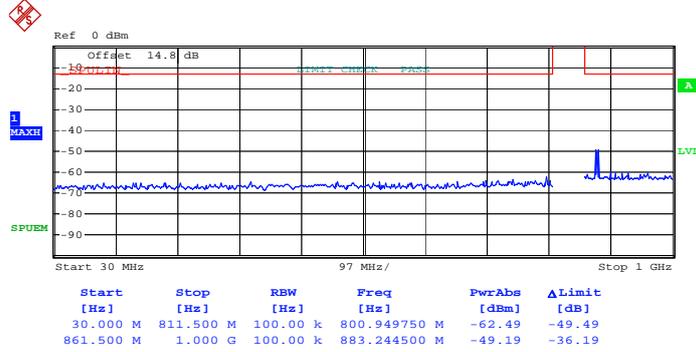


Date: 22.JAN.2013 09:27:34



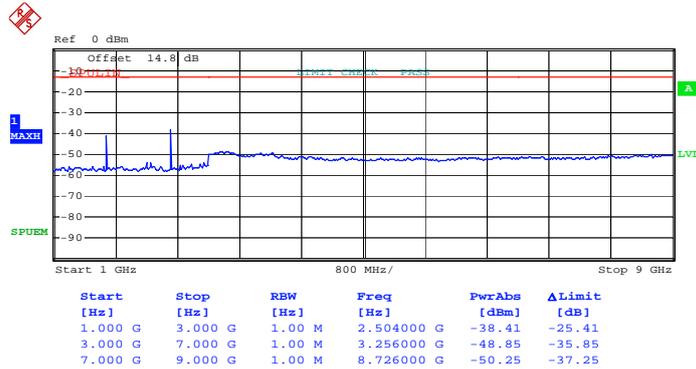
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
Frequency :	836.5	Channel :	20525

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



Date: 22.JAN.2013 09:45:13

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

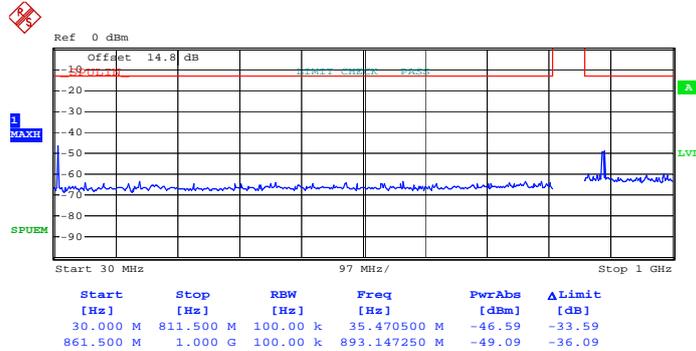


Date: 22.JAN.2013 09:45:34



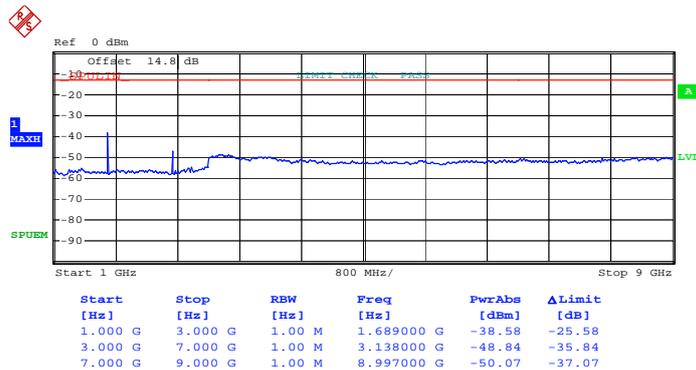
Band :	LTE Band 5	BW / Mod. :	5MHz / 16QAM
Frequency :	846.5	Channel :	20625

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



Date: 22.JAN.2013 09:37:41

Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)

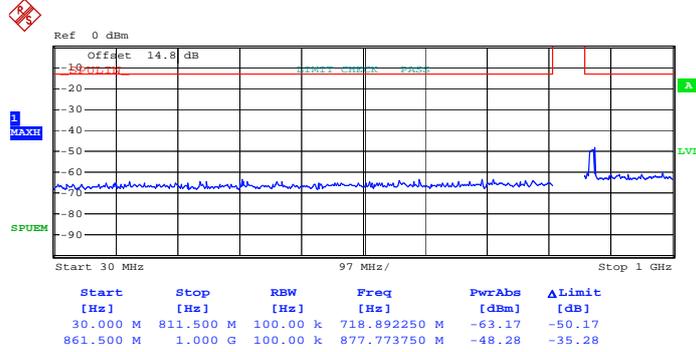


Date: 22.JAN.2013 09:37:17



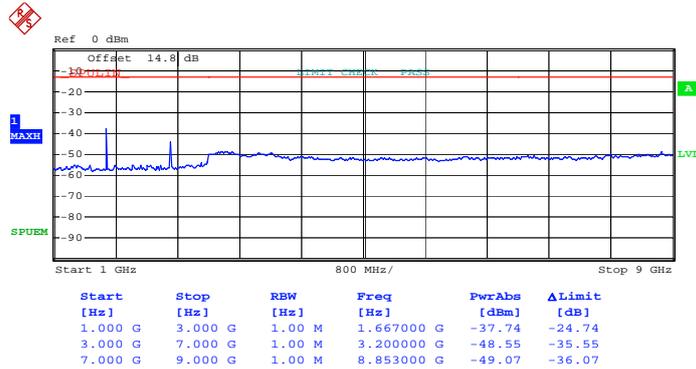
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
Frequency :	829	Channel :	20450

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 49)



Date: 22.JAN.2013 09:24:48

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 49)

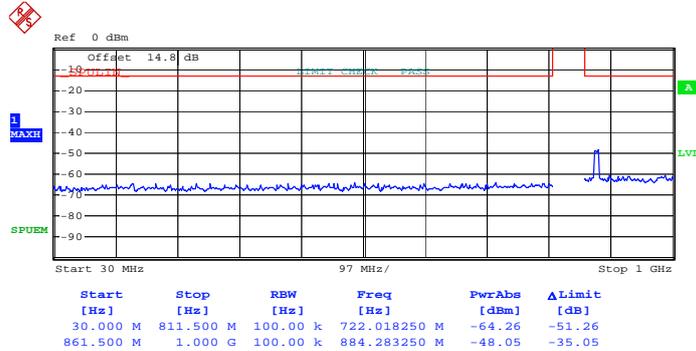


Date: 22.JAN.2013 09:25:17



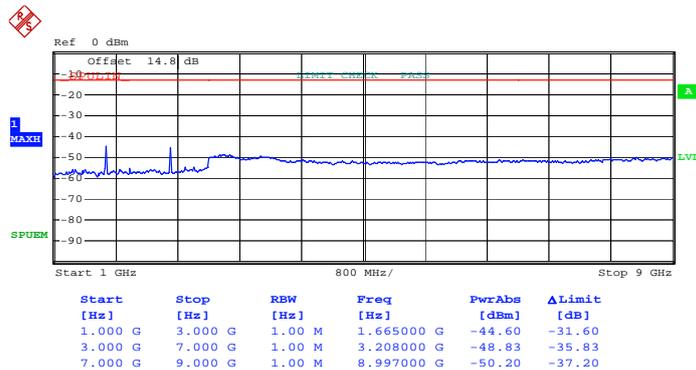
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
Frequency :	836.5	Channel :	20525

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



Date: 22.JAN.2013 09:43:42

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

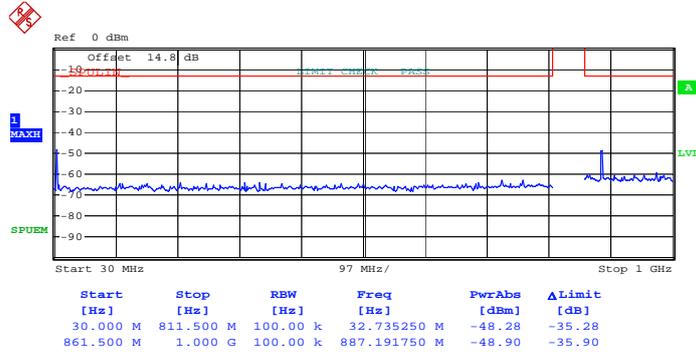


Date: 22.JAN.2013 09:43:59



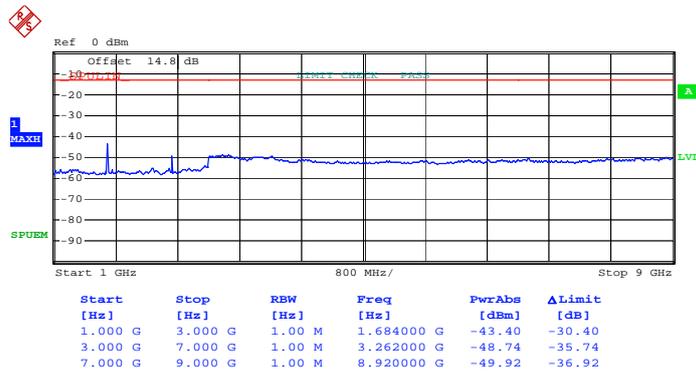
Band :	LTE Band 5	BW / Mod. :	10MHz / QPSK
Frequency :	844	Channel :	20600

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



Date: 22.JAN.2013 09:39:25

Conducted Emission Plot (1GHz ~ 9GHz) for QPSK (RB Size 1, RB Offset 0)

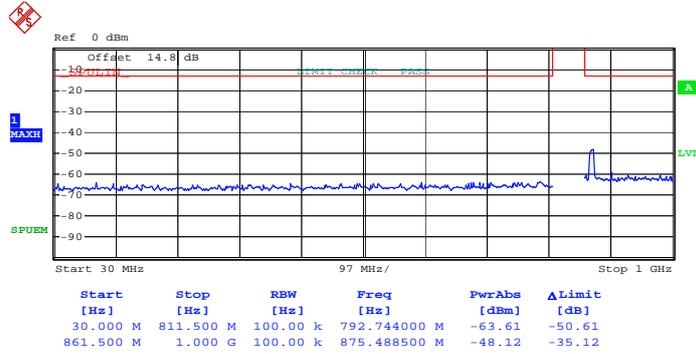


Date: 22.JAN.2013 09:39:02



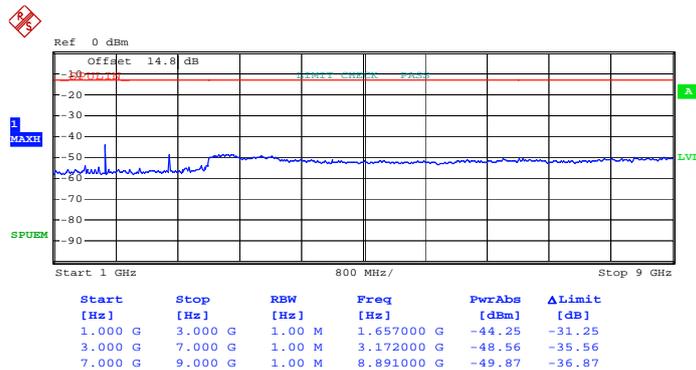
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
Frequency :	829	Channel :	20450

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 24)



Date: 22.JAN.2013 09:24:13

Conducted Emission Plot (1GHz ~ 9GHz) for  
16-QAM (RB Size 1, RB Offset 24)

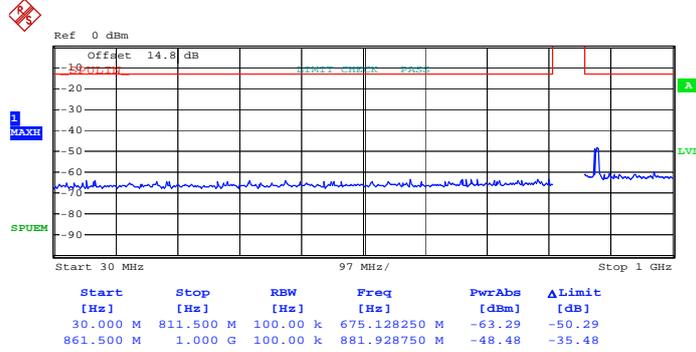


Date: 22.JAN.2013 09:23:54



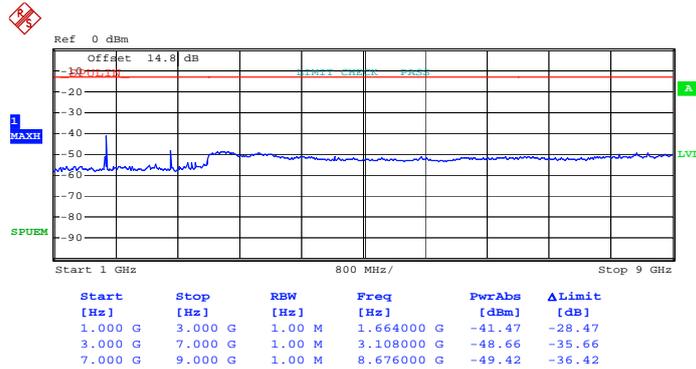
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	836.5	<b>Channel :</b>	20525

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



Date: 22.JAN.2013 09:43:09

**Conducted Emission Plot (1GHz ~ 9GHz) for 16-QAM (RB Size 1, RB Offset 0)**

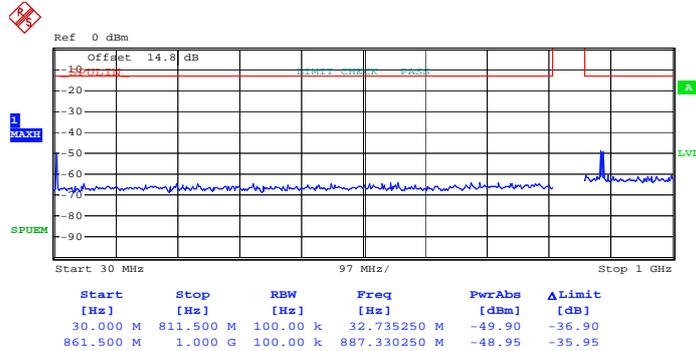


Date: 22.JAN.2013 09:42:47



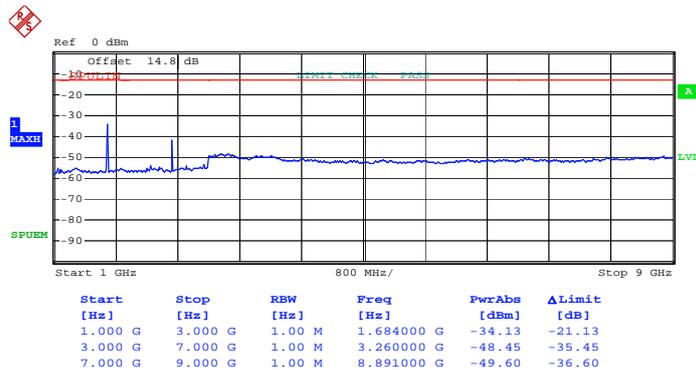
Band :	LTE Band 5	BW / Mod. :	10MHz / 16QAM
Frequency :	844	Channel :	20350

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



Date: 22.JAN.2013 09:39:46

Conducted Emission Plot (1GHz ~ 9GHz) for  
16-QAM (RB Size 1, RB Offset 0)

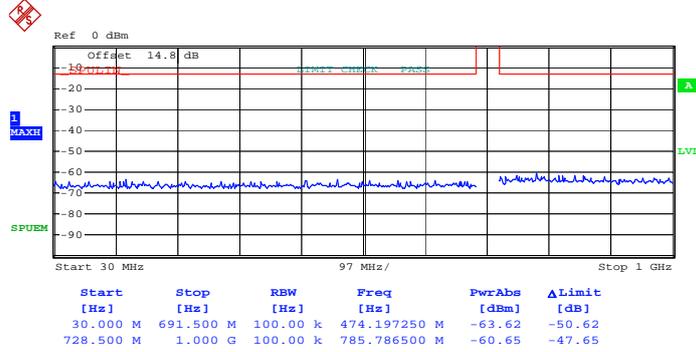


Date: 22.JAN.2013 09:40:18



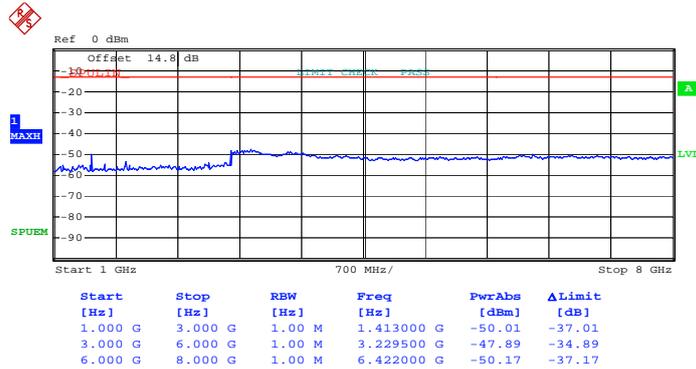
<b>Band :</b>	LTE Band 17	<b>BW / Mod. :</b>	5MHz / QPSK
<b>Frequency :</b>	706.5	<b>Channel :</b>	23755

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 12)**



Date: 26.JAN.2013 15:52:14

**Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 12)**

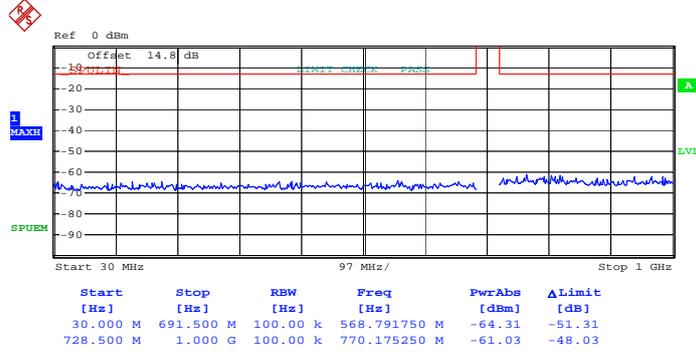


Date: 26.JAN.2013 15:51:42



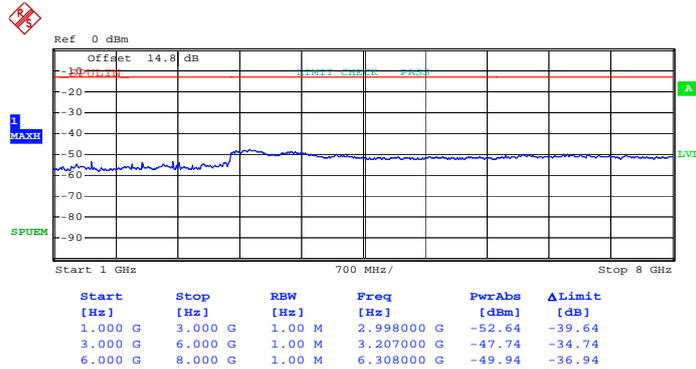
<b>Band :</b>	LTE Band 17	<b>BW / Mod. :</b>	5MHz / QPSK
<b>Frequency :</b>	710	<b>Channel :</b>	23790

**Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 24)**



Date: 26.JAN.2013 15:42:35

**Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 24)**

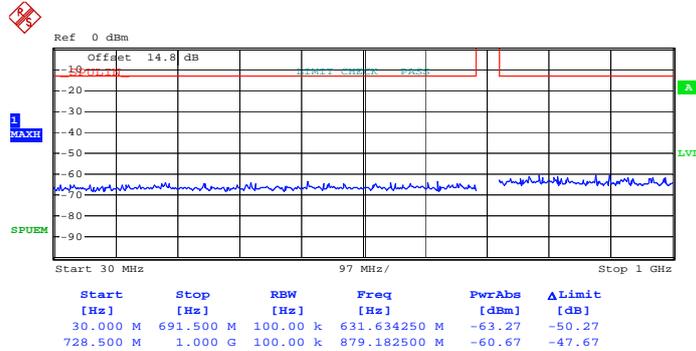


Date: 26.JAN.2013 15:41:07



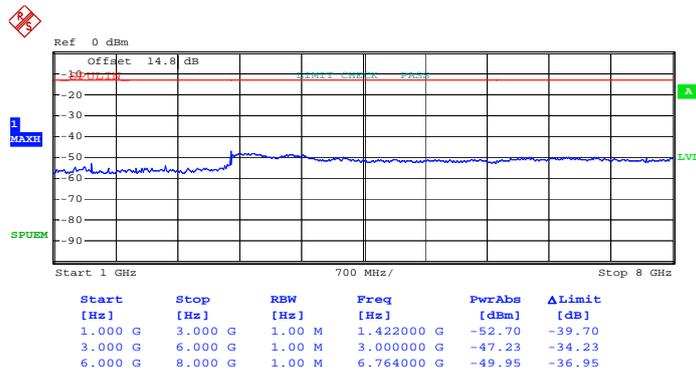
Band :	LTE Band 17	BW / Mod. :	5MHz / QPSK
Frequency :	713.5	Channel :	23825

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



Date: 26.JAN.2013 15:43:58

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)

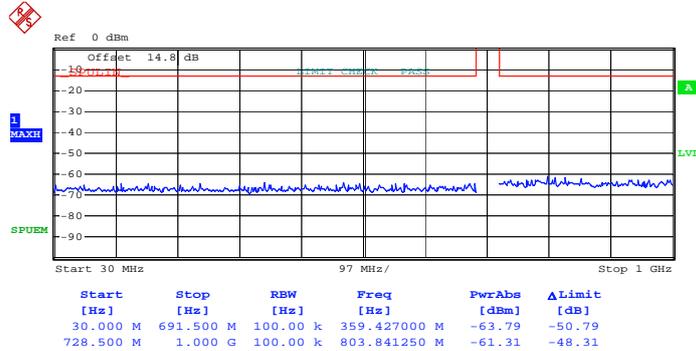


Date: 26.JAN.2013 15:45:09



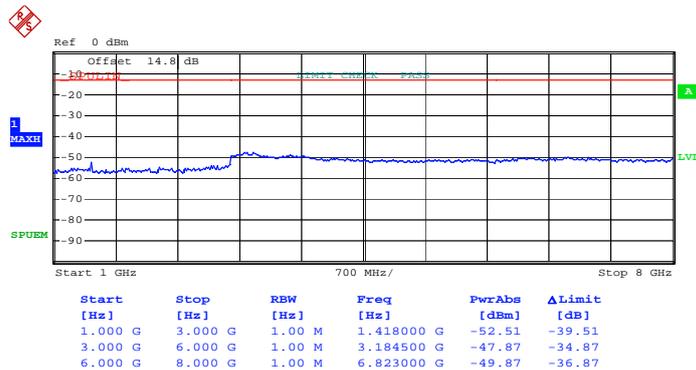
<b>Band :</b>	LTE Band 17	<b>BW / Mod. :</b>	5MHz / 16QAM
<b>Frequency :</b>	706.5	<b>Channel :</b>	23755

**Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 24)**



Date: 26.JAN.2013 15:50:52

**Conducted Emission Plot (1GHz ~ 8GHz) for  
16-QAM (RB Size 1, RB Offset 24)**

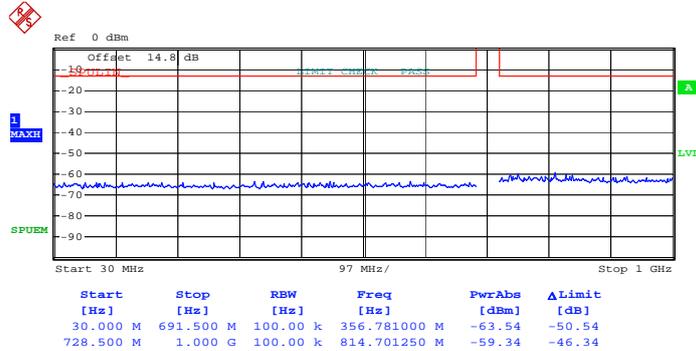


Date: 26.JAN.2013 15:51:19



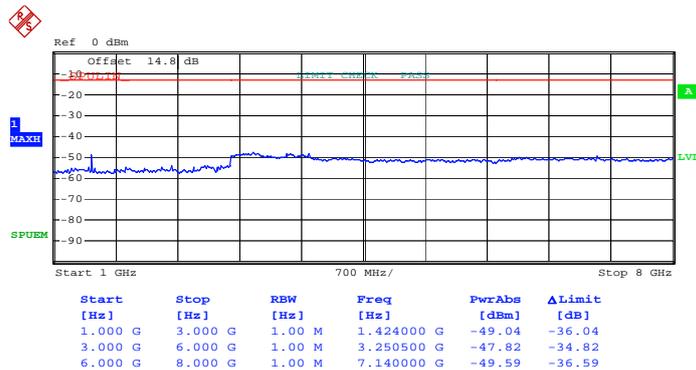
Band :	LTE Band 17	BW / Mod. :	5MHz / 16QAM
Frequency :	710	Channel :	23790

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 24)



Date: 26.JAN.2013 15:42:14

Conducted Emission Plot (1GHz ~ 8GHz) for  
16-QAM (RB Size 1, RB Offset 24)

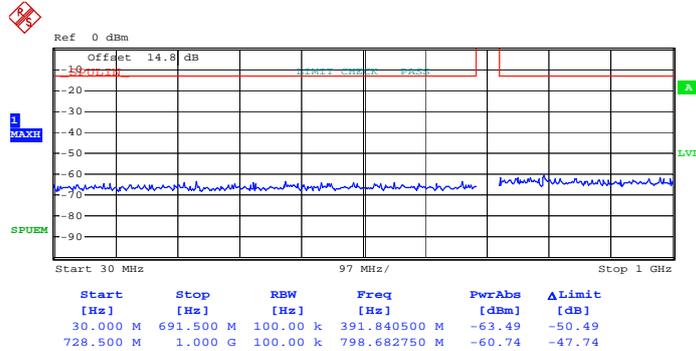


Date: 26.JAN.2013 15:41:35



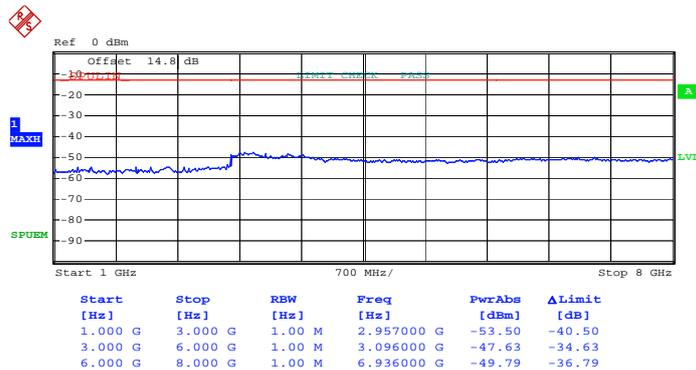
Band :	LTE Band 17	BW / Mod. :	5MHz / 16QAM
Frequency :	713.5	Channel :	23825

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



Date: 26.JAN.2013 15:44:25

Conducted Emission Plot (1GHz ~ 8GHz) for 16-QAM (RB Size 1, RB Offset 0)

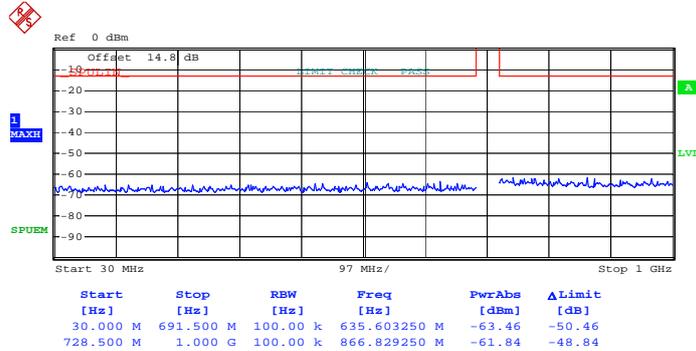


Date: 26.JAN.2013 15:44:47



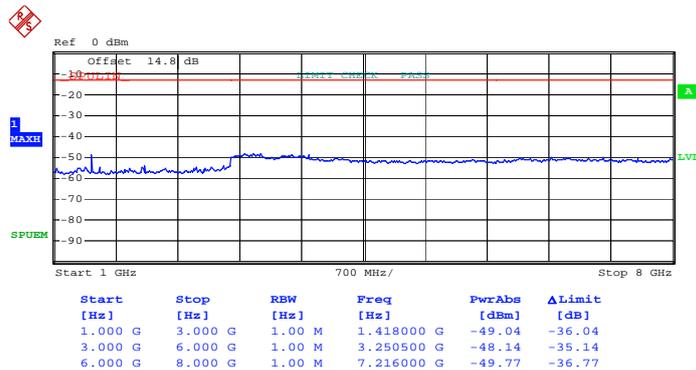
Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
Frequency :	709	Channel :	23780

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 24)



Date: 26.JAN.2013 15:49:32

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 24)

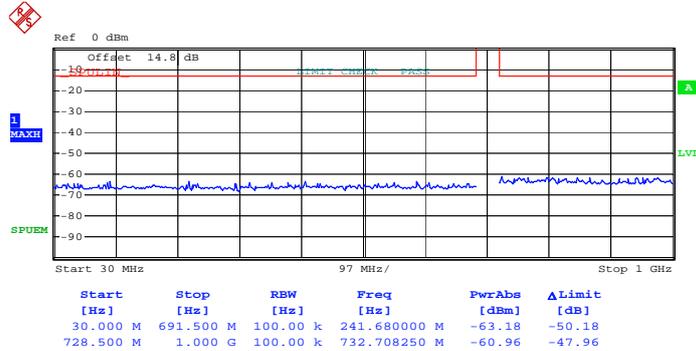


Date: 26.JAN.2013 15:48:46



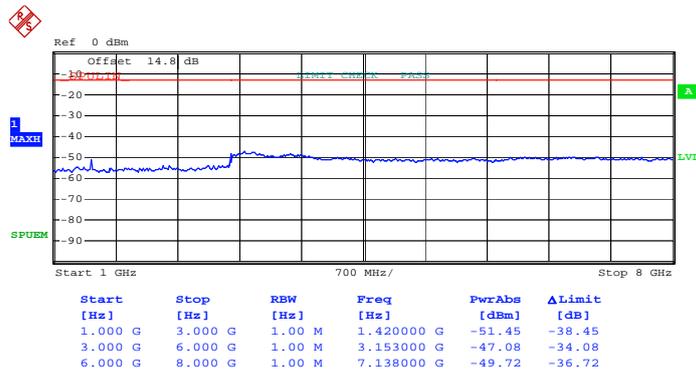
Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
Frequency :	710	Channel :	23790

Conducted Emission Plot (30MHz ~ 1GHz) for QPSK (RB Size 1, RB Offset 24)



Date: 26.JAN.2013 15:38:11

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 24)

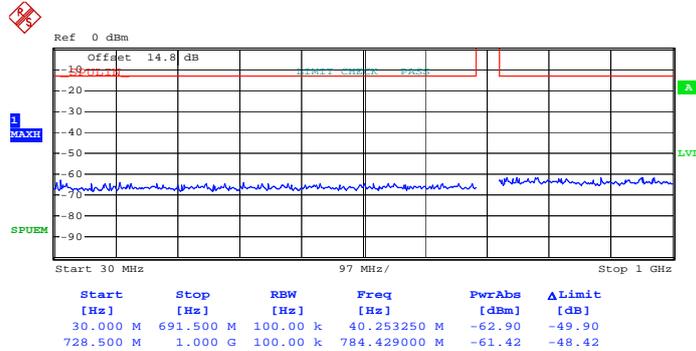


Date: 26.JAN.2013 15:40:27



Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
Frequency :	711	Channel :	23800

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



Date: 26.JAN.2013 15:46:24

Conducted Emission Plot (1GHz ~ 8GHz) for QPSK (RB Size 1, RB Offset 0)

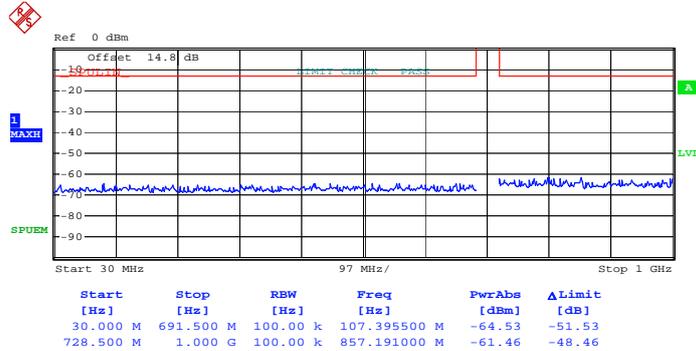


Date: 26.JAN.2013 15:45:57



<b>Band :</b>	LTE Band 17	<b>BW / Mod. :</b>	10MHz / 16QAM
<b>Frequency :</b>	709	<b>Channel :</b>	23780

**Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 24)**



Date: 26.JAN.2013 15:49:59

**Conducted Emission Plot (1GHz ~ 8GHz) for  
16-QAM (RB Size 1, RB Offset 24)**

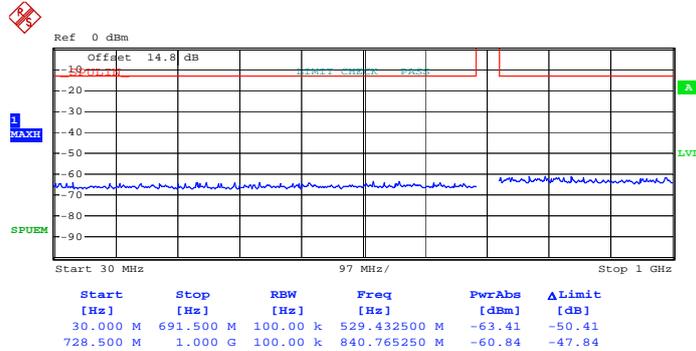


Date: 26.JAN.2013 15:48:21



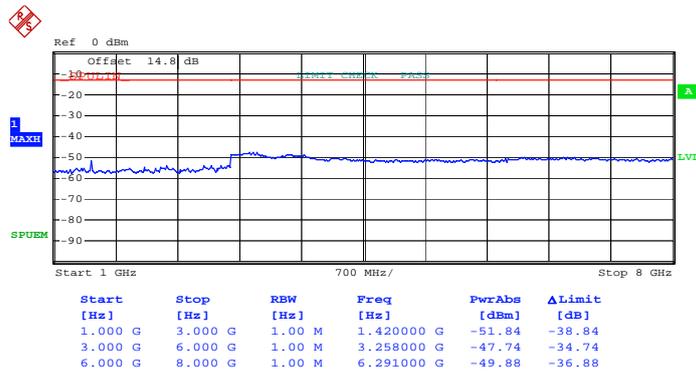
Band :	LTE Band 17	BW / Mod. :	10MHz / 16QAM
Frequency :	710	Channel :	23790

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 24)



Date: 26.JAN.2013 15:38:38

Conducted Emission Plot (1GHz ~ 8GHz) for  
16-QAM (RB Size 1, RB Offset 24)

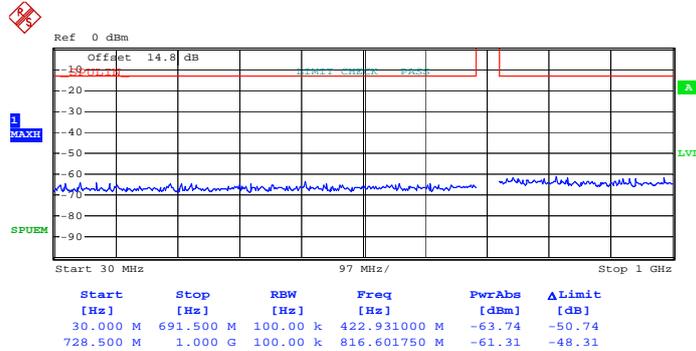


Date: 26.JAN.2013 15:40:03



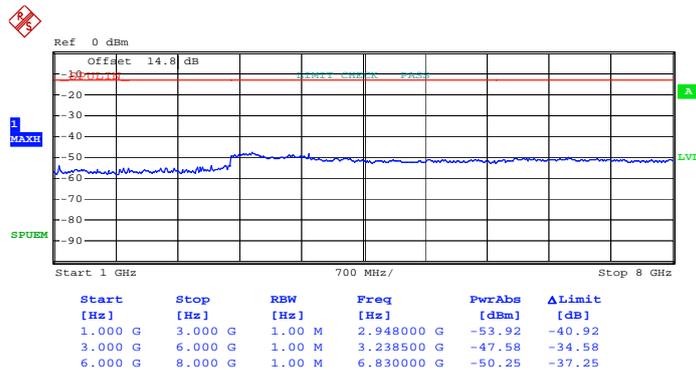
Band :	LTE Band 17	BW / Mod. :	10MHz / 16QAM
Frequency :	711	Channel :	23800

Conducted Emission Plot (30MHz ~ 1GHz) for  
16-QAM (RB Size 1, RB Offset 24)



Date: 26.JAN.2013 15:46:50

Conducted Emission Plot (1GHz ~ 8GHz) for  
16-QAM (RB Size 1, RB Offset 24)



Date: 26.JAN.2013 15:47:25

## 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

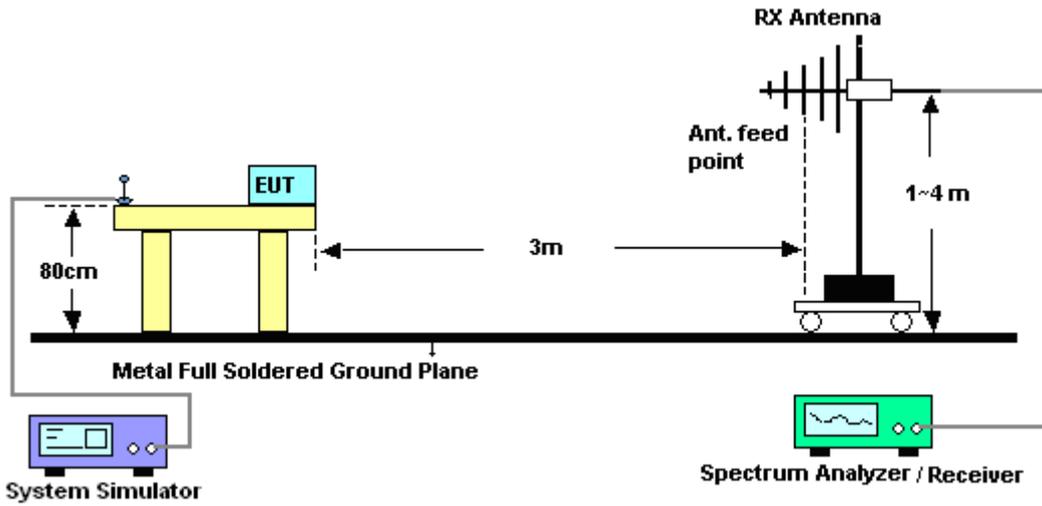
See list of measuring instruments of this test report.

### 3.6.3 Test Procedures

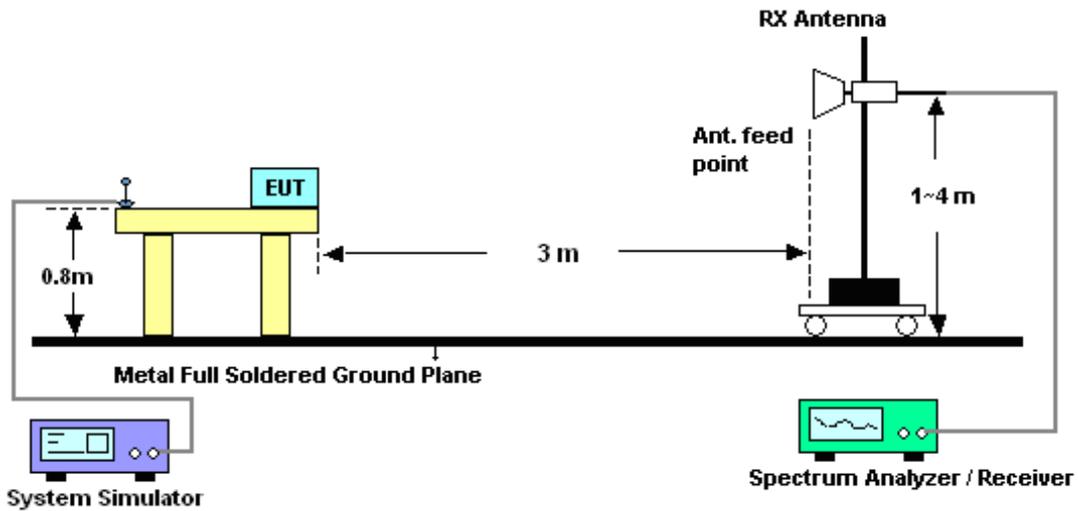
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving 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



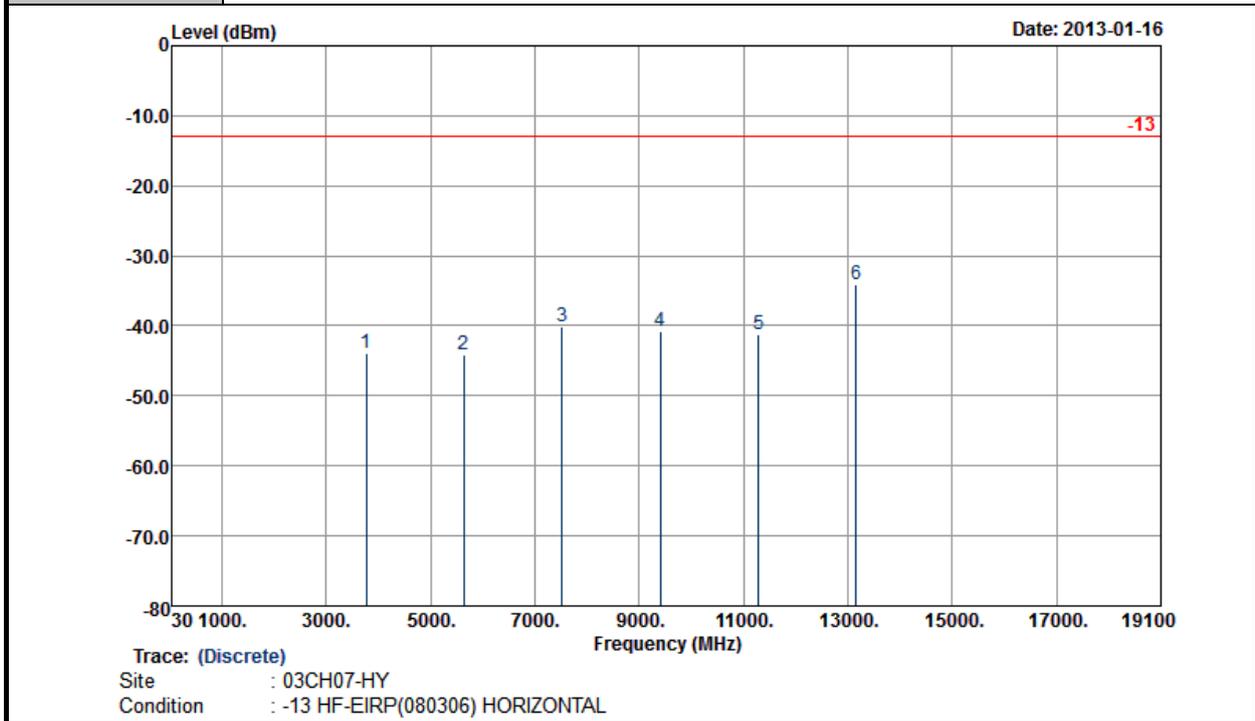
### 3.6.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

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

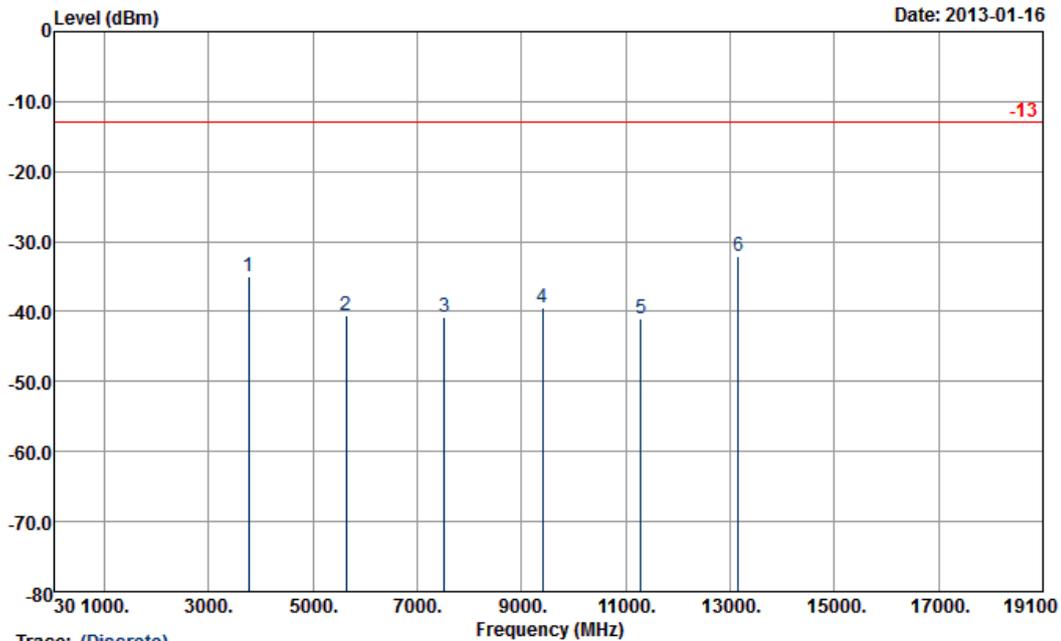
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-43.94	-13	-30.94	-59.6	-50.24	2.51	8.81	H	Pass
5636	-44.06	-13	-31.06	-65.16	-51.77	2.99	10.70	H	Pass
7520	-40.12	-13	-27.12	-67.97	-48.65	3.59	12.12	H	Pass
9400	-40.86	-13	-27.86	-67.8	-49.96	4.1	13.20	H	Pass
11280	-41.22	-13	-28.22	-70.65	-50.26	4.27	13.31	H	Pass
13160	-33.99	-13	-20.99	-67.86	-43.51	4.27	13.79	H	Pass



<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

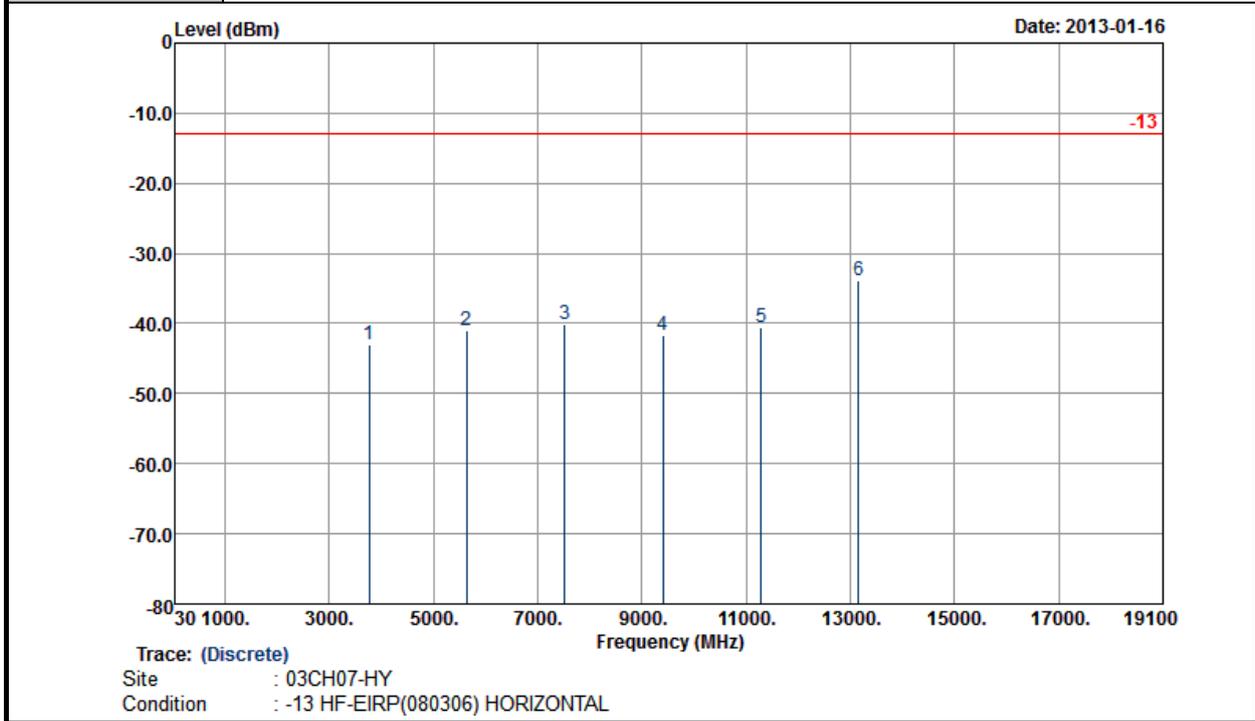


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) VERTICAL

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
3760	-34.96	-13	-21.96	-51.29	-41.26	2.51	8.81	V	Pass
5636	-40.51	-13	-27.51	-61.09	-48.22	2.99	10.70	V	Pass
7520	-40.73	-13	-27.73	-68.18	-49.26	3.59	12.12	V	Pass
9400	-39.41	-13	-26.41	-65.84	-48.51	4.1	13.20	V	Pass
11280	-41.10	-13	-28.10	-70.06	-50.14	4.27	13.31	V	Pass
13160	-31.99	-13	-18.99	-63.58	-41.51	4.27	13.79	V	Pass



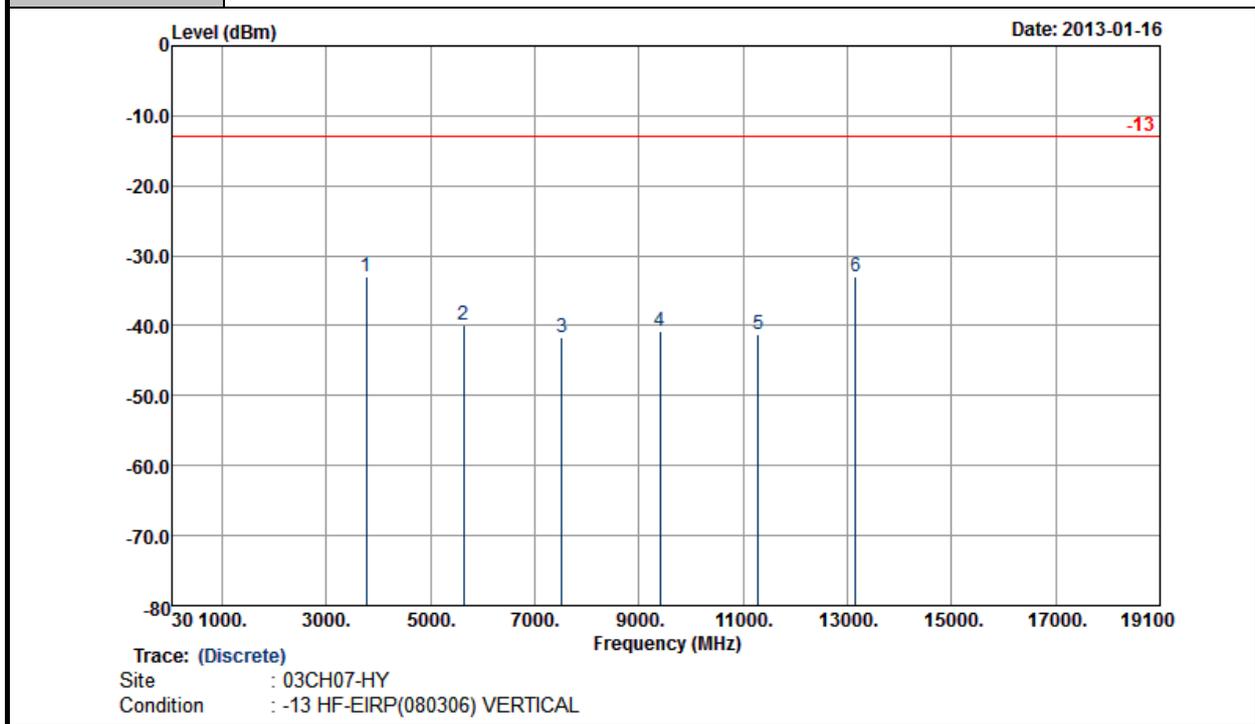
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-42.96	-13	-29.96	-58.72	-49.26	2.51	8.81	H	Pass
5636	-41.06	-13	-28.06	-62.77	-48.77	2.99	10.70	H	Pass
7520	-40.16	-13	-27.16	-68.15	-48.69	3.59	12.12	H	Pass
9400	-41.62	-13	-28.62	-68.38	-50.72	4.1	13.20	H	Pass
11280	-40.48	-13	-27.48	-70.61	-49.52	4.27	13.31	H	Pass
13160	-33.95	-13	-20.95	-67.07	-43.47	4.27	13.79	H	Pass



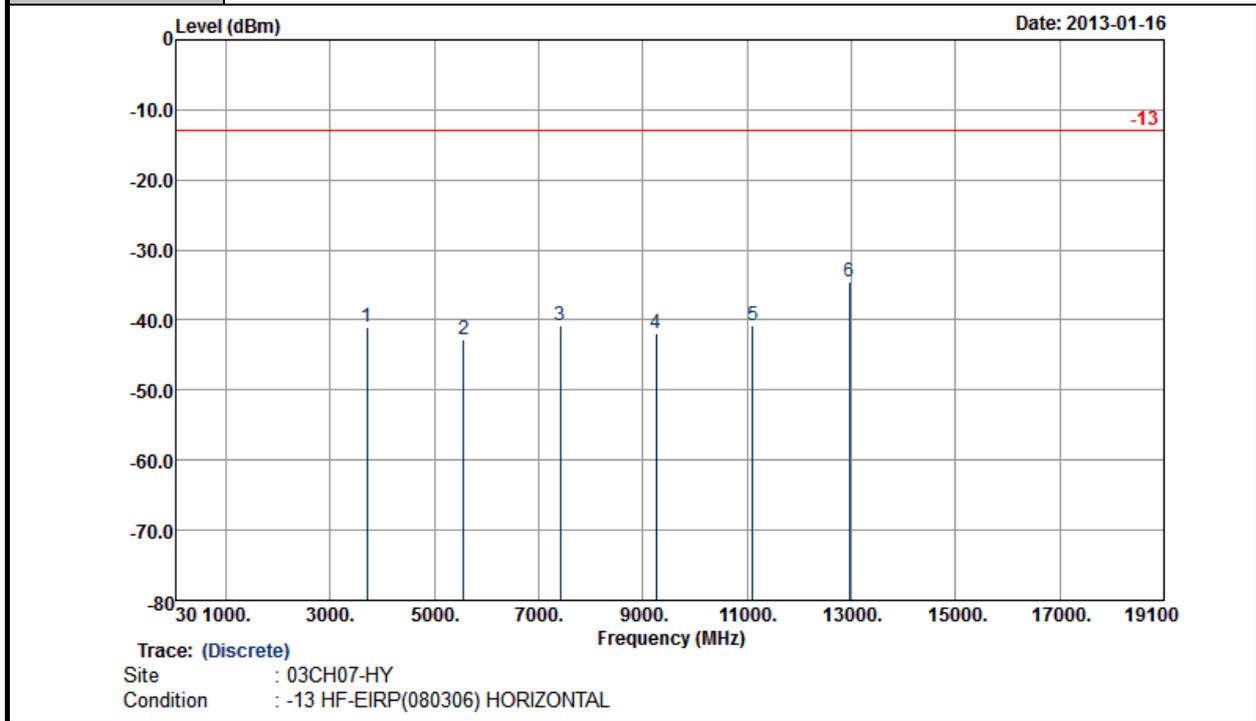
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-32.96	-13	-19.96	-50.91	-39.26	2.51	8.81	V	Pass
5636	-39.80	-13	-26.80	-60.25	-47.51	2.99	10.70	V	Pass
7520	-41.73	-13	-28.73	-68.8	-50.26	3.59	12.12	V	Pass
9400	-40.77	-13	-27.77	-67.64	-49.87	4.1	13.20	V	Pass
11280	-41.22	-13	-28.22	-70.64	-50.26	4.27	13.31	V	Pass
13160	-32.96	-13	-19.96	-63.74	-42.48	4.27	13.79	V	Pass



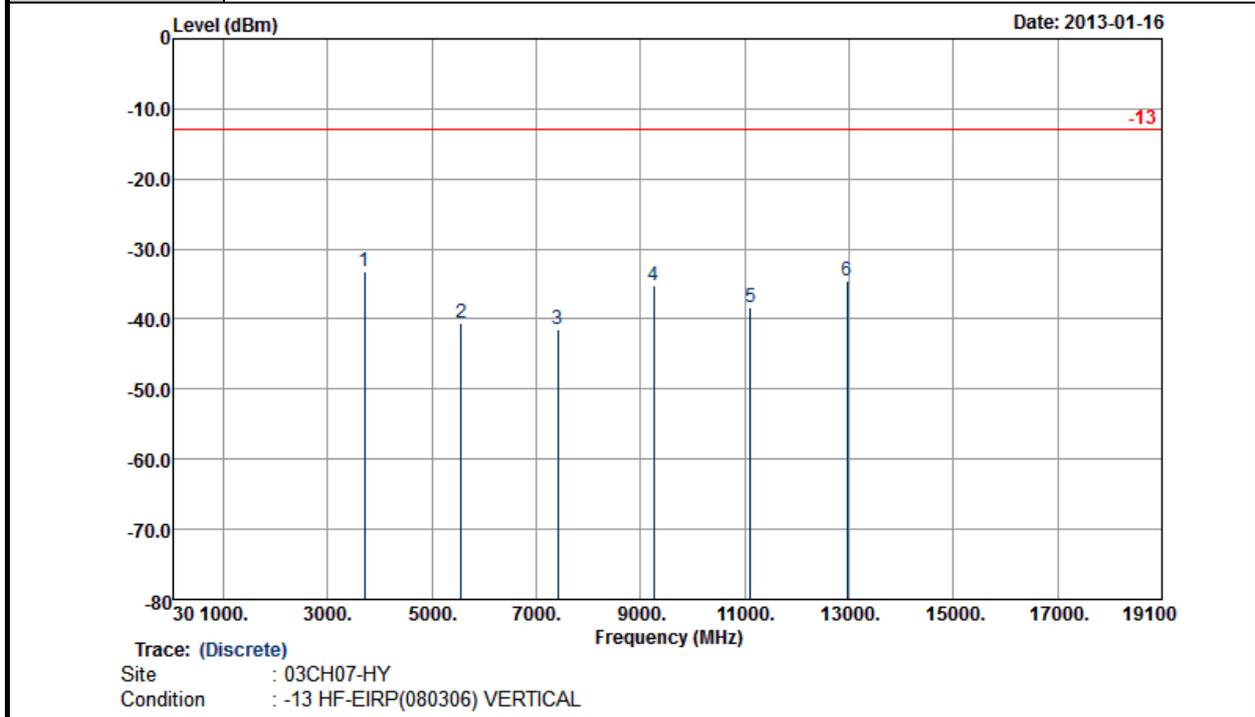
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-41.11	-13	-28.11	-57.98	-47.26	2.59	8.74	H	Pass
5553	-42.75	-13	-29.75	-63.93	-50.41	3.04	10.70	H	Pass
7405	-40.77	-13	-27.77	-69.18	-49.51	3.28	12.02	H	Pass
9256	-41.91	-13	-28.91	-68.33	-51.21	3.9	13.20	H	Pass
11107	-40.69	-13	-27.69	-70.09	-49.51	4.42	13.24	H	Pass
12958	-34.49	-13	-21.49	-68.33	-43.15	4.89	13.55	H	Pass



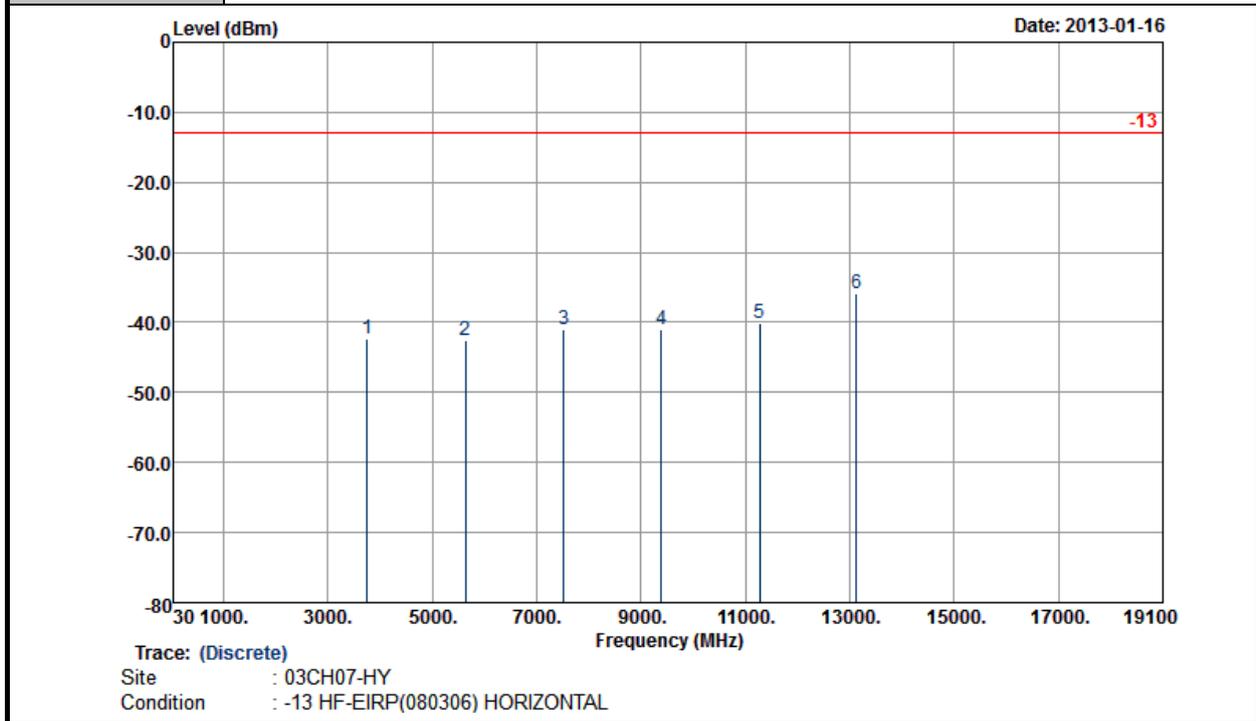
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-33.11	-13	-20.11	-51.6	-39.26	2.59	8.74	V	Pass
5553	-40.45	-13	-27.45	-62.24	-48.11	3.04	10.70	V	Pass
7405	-41.50	-13	-28.50	-68.33	-50.24	3.28	12.02	V	Pass
9256	-35.21	-13	-22.21	-62.83	-44.51	3.9	13.20	V	Pass
11107	-38.44	-13	-25.44	-67.9	-47.26	4.42	13.24	V	Pass
12958	-34.55	-13	-21.55	-65.9	-43.21	4.89	13.55	V	Pass



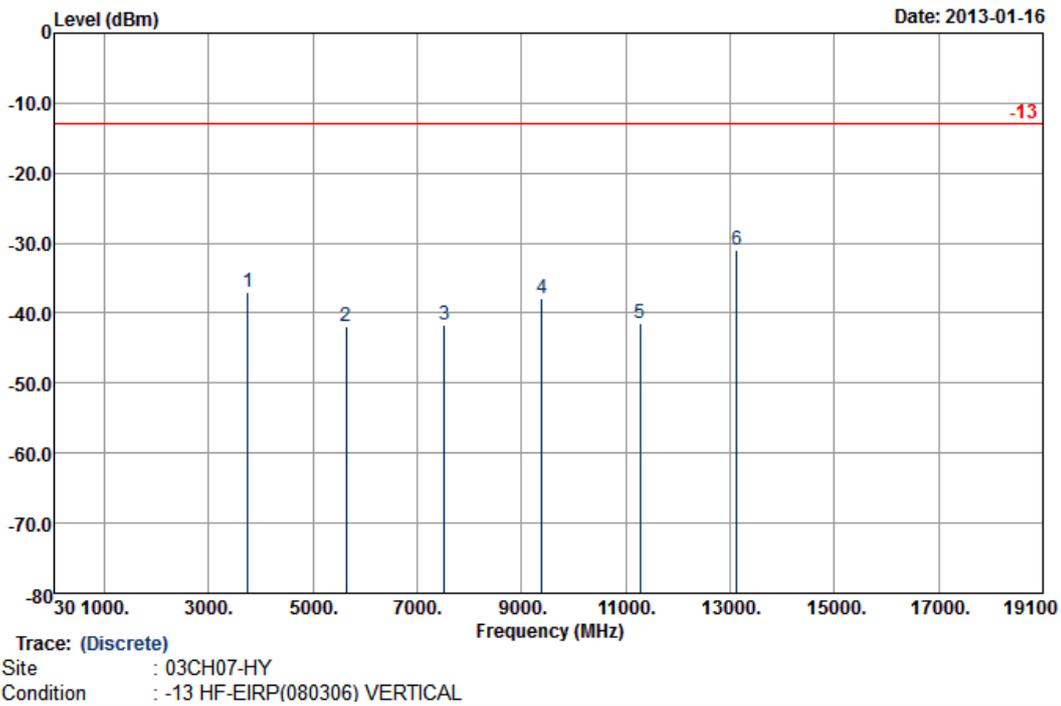
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3752	-42.30	-13	-29.30	-58.03	-48.6	2.51	8.81	H	Pass
5628	-42.53	-13	-29.53	-63.06	-50.24	2.99	10.70	H	Pass
7512	-40.98	-13	-27.98	-67.87	-49.51	3.59	12.12	H	Pass
9380	-41.01	-13	-28.01	-67.78	-50.11	4.1	13.20	H	Pass
11272	-40.08	-13	-27.08	-69.71	-49.12	4.27	13.31	H	Pass
13128	-35.95	-13	-22.95	-69.02	-45.47	4.27	13.79	H	Pass



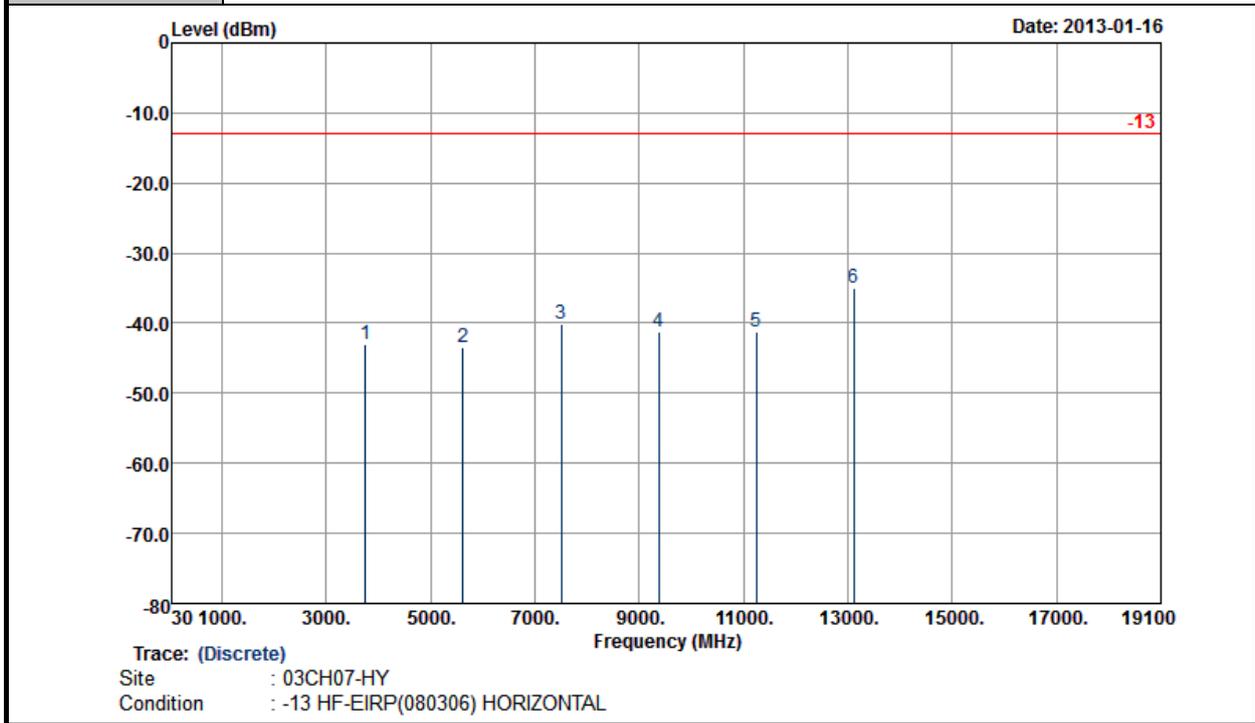
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-36.96	-13	-23.96	-52.91	-43.26	2.51	8.81	V	Pass
5628	-41.86	-13	-28.86	-62.42	-49.57	2.99	10.70	V	Pass
7512	-41.73	-13	-28.73	-68.71	-50.26	3.59	12.12	V	Pass
9380	-37.86	-13	-24.86	-65.16	-46.96	4.1	13.20	V	Pass
11272	-41.52	-13	-28.52	-69.75	-50.56	4.27	13.31	V	Pass
13128	-31.00	-13	-18.00	-62.7	-40.52	4.27	13.79	V	Pass



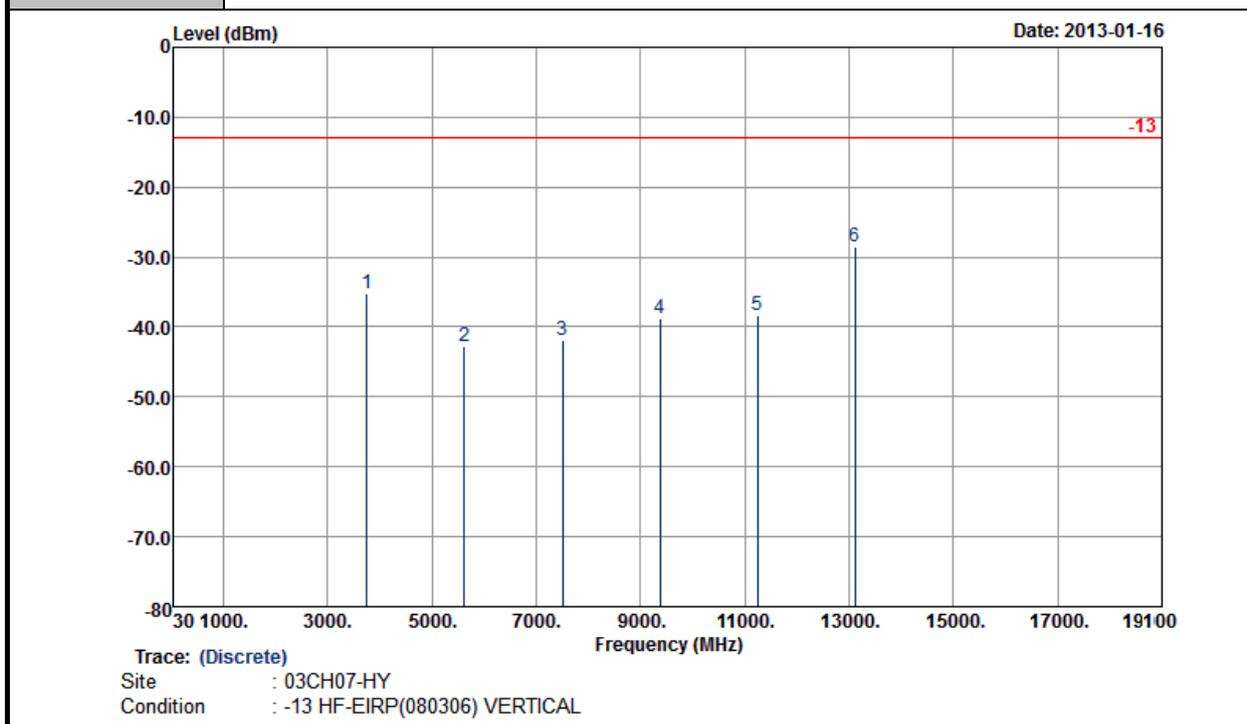
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	15MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-42.96	-13	-29.96	-58.79	-49.26	2.51	8.81	H	Pass
5620	-43.43	-13	-30.43	-65.68	-51.14	2.99	10.70	H	Pass
7504	-40.07	-13	-27.07	-67.98	-48.6	3.59	12.12	H	Pass
9368	-41.16	-13	-28.16	-67.8	-50.26	4.1	13.20	H	Pass
11240	-41.22	-13	-28.22	-70.52	-50.26	4.27	13.31	H	Pass
13112	-34.95	-13	-21.95	-69.11	-44.47	4.27	13.79	H	Pass



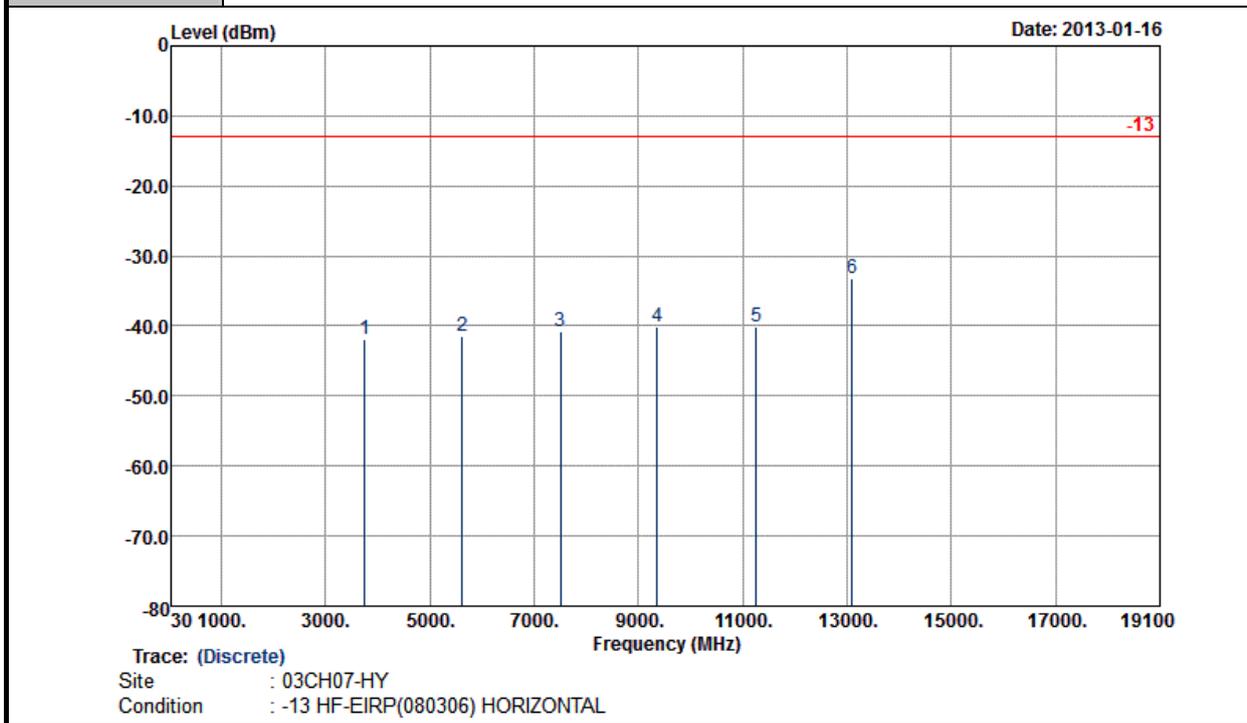
Band :	LTE Band 2	Temperature :	22~24°C
Test Mode :	15MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Gavin Wu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-35.26	-13	-22.26	-52.29	-41.56	2.51	8.81	V	Pass
5620	-42.73	-13	-29.73	-62.63	-50.44	2.99	10.70	V	Pass
7504	-41.99	-13	-28.99	-68.44	-50.52	3.59	12.12	V	Pass
9368	-38.67	-13	-25.67	-64.48	-47.77	4.1	13.20	V	Pass
11240	-38.22	-13	-25.22	-68.09	-47.26	4.27	13.31	V	Pass
13112	-28.59	-13	-15.59	-60.35	-38.11	4.27	13.79	V	Pass



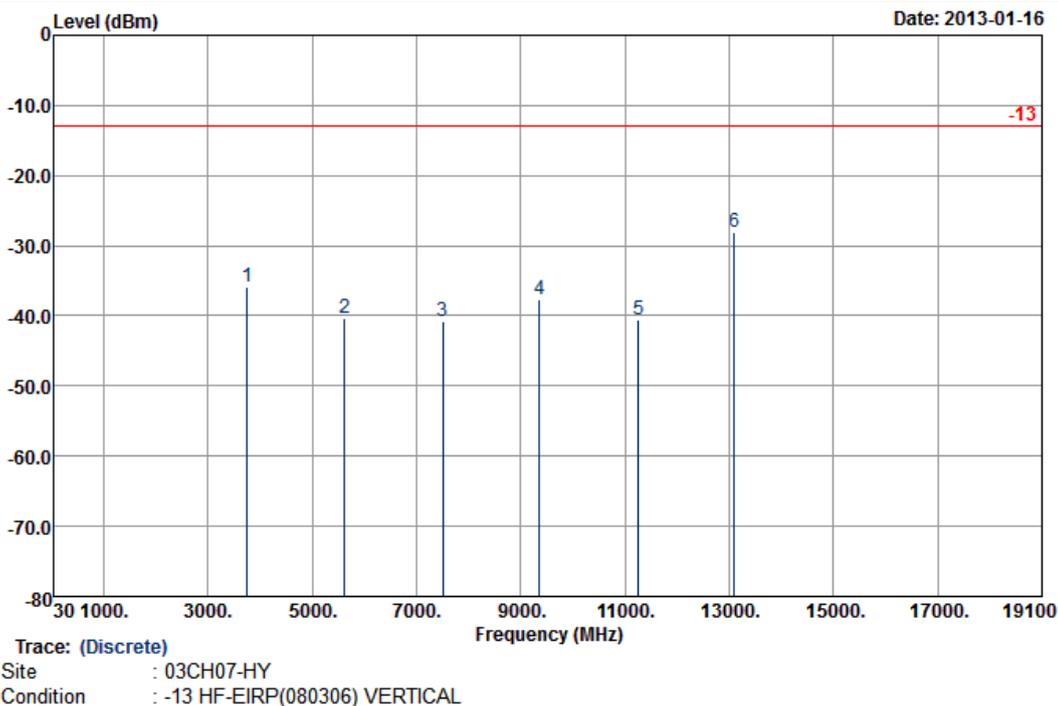
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	20MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-41.92	-13	-28.92	-58.09	-48.22	2.51	8.81	H	Pass
5612	-41.83	-13	-28.83	-62.23	-49.54	2.99	10.70	H	Pass
7500	-40.73	-13	-27.73	-68.4	-49.26	3.59	12.12	H	Pass
9356	-40.16	-13	-27.16	-67.44	-49.26	4.1	13.20	H	Pass
11260	-40.22	-13	-27.22	-70.68	-49.26	4.27	13.31	H	Pass
13096	-33.25	-13	-20.25	-66.44	-42.77	4.27	13.79	H	Pass



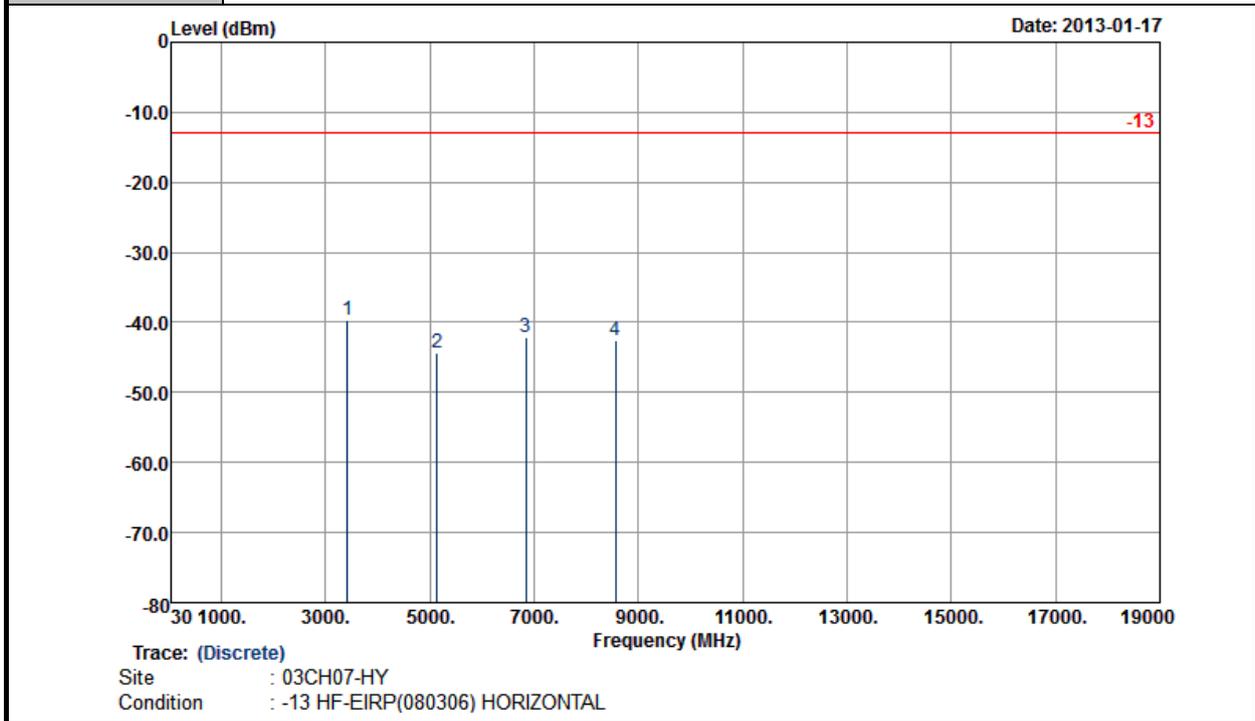
<b>Band :</b>	LTE Band 2	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	20MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-35.96	-13	-22.96	-52.35	-42.26	2.51	8.81	V	Pass
5612	-40.40	-13	-27.40	-62.24	-48.11	2.99	10.70	V	Pass
7500	-40.68	-13	-27.68	-67.19	-49.21	3.59	12.12	V	Pass
9356	-37.67	-13	-24.67	-63.64	-46.77	4.1	13.20	V	Pass
11260	-40.48	-13	-27.48	-69.85	-49.52	4.27	13.31	V	Pass
13096	-28.06	-13	-15.06	-61.3	-37.58	4.27	13.79	V	Pass



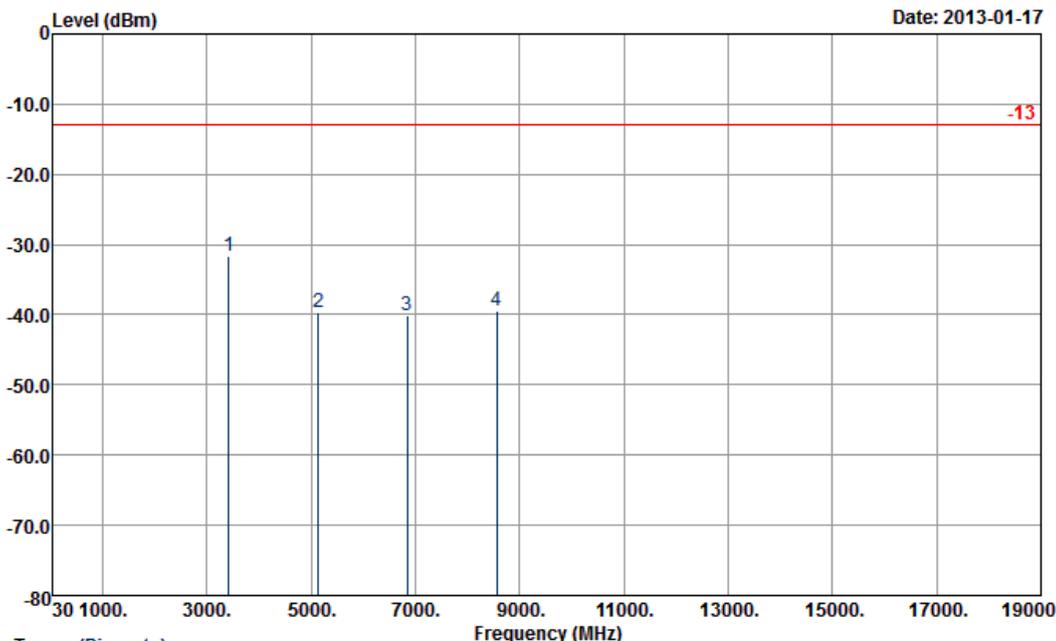
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 5	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-39.58	-13	-26.58	-54.21	-41.26	4.48	8.31	H	Pass
5130	-44.29	-13	-31.29	-63.77	-46.78	5.332	9.98	H	Pass
6840	-42.02	-13	-29.02	-68.64	-45.11	6.1	11.34	H	Pass
8556	-42.49	-13	-29.49	-69.15	-45.26	8.25	13.17	H	Pass



<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 5	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

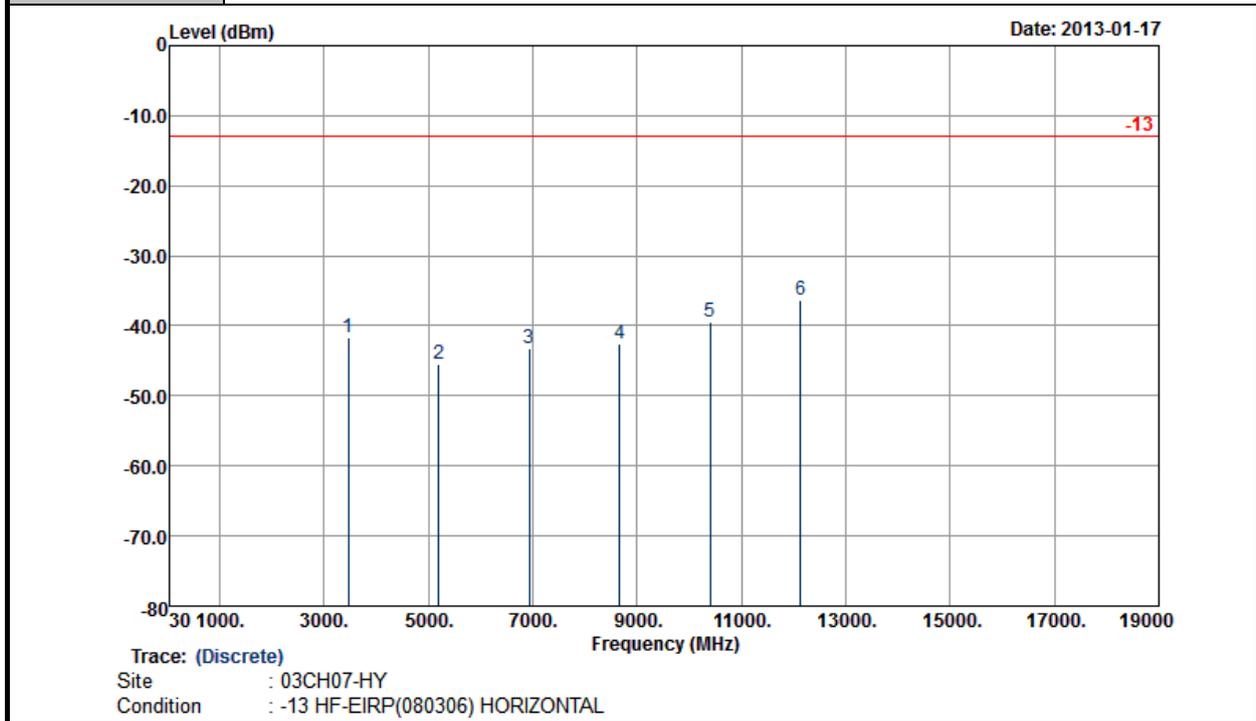


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) VERTICAL

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
3420	-31.58	-13	-18.58	-48.43	-33.26	4.48	8.31	V	Pass
5130	-39.62	-13	-26.62	-59.05	-42.11	5.332	9.98	V	Pass
6840	-40.06	-13	-27.06	-66.64	-43.15	6.1	11.34	V	Pass
8550	-39.49	-13	-26.49	-65.99	-42.26	8.25	13.17	V	Pass



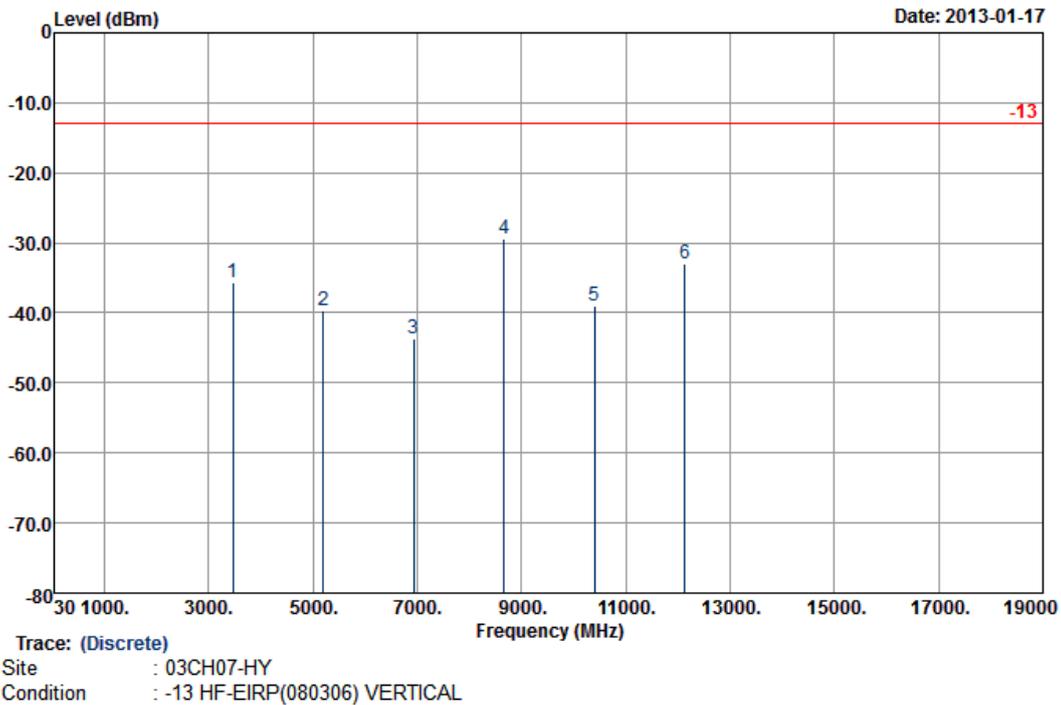
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 14	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3465	-41.58	-13	-28.58	-57.02	-43.26	4.48	8.31	H	Pass
5197	-45.39	-13	-32.39	-64.09	-47.88	5.332	9.98	H	Pass
6929	-43.16	-13	-30.16	-69.56	-46.25	6.1	11.34	H	Pass
8661	-42.47	-13	-29.47	-68.75	-45.24	8.25	13.17	H	Pass
10393	-39.41	-13	-26.41	-68.92	-41.55	8.65	12.94	H	Pass
12125	-36.35	-13	-23.35	-68.46	-38.51	8.59	12.90	H	Pass



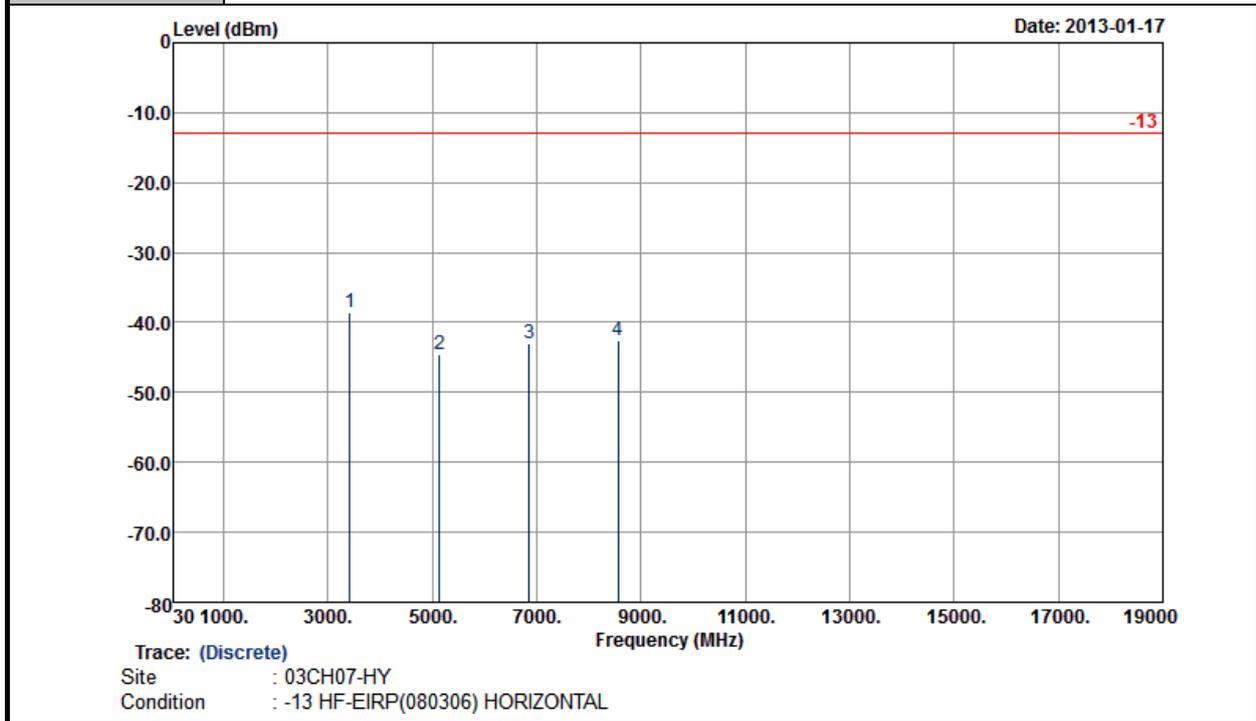
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 14	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3465	-35.58	-13	-22.58	-52.31	-37.26	4.48	8.31	V	Pass
5197	-39.65	-13	-26.65	-58.77	-42.14	5.332	9.98	V	Pass
6929	-43.76	-13	-30.76	-70.05	-46.85	6.1	11.34	V	Pass
8661	-29.49	-13	-16.49	-55.47	-32.26	8.25	13.17	V	Pass
10393	-38.97	-13	-25.97	-67.86	-41.11	8.65	12.94	V	Pass
12125	-33.08	-13	-20.08	-64.18	-35.24	8.59	12.90	V	Pass



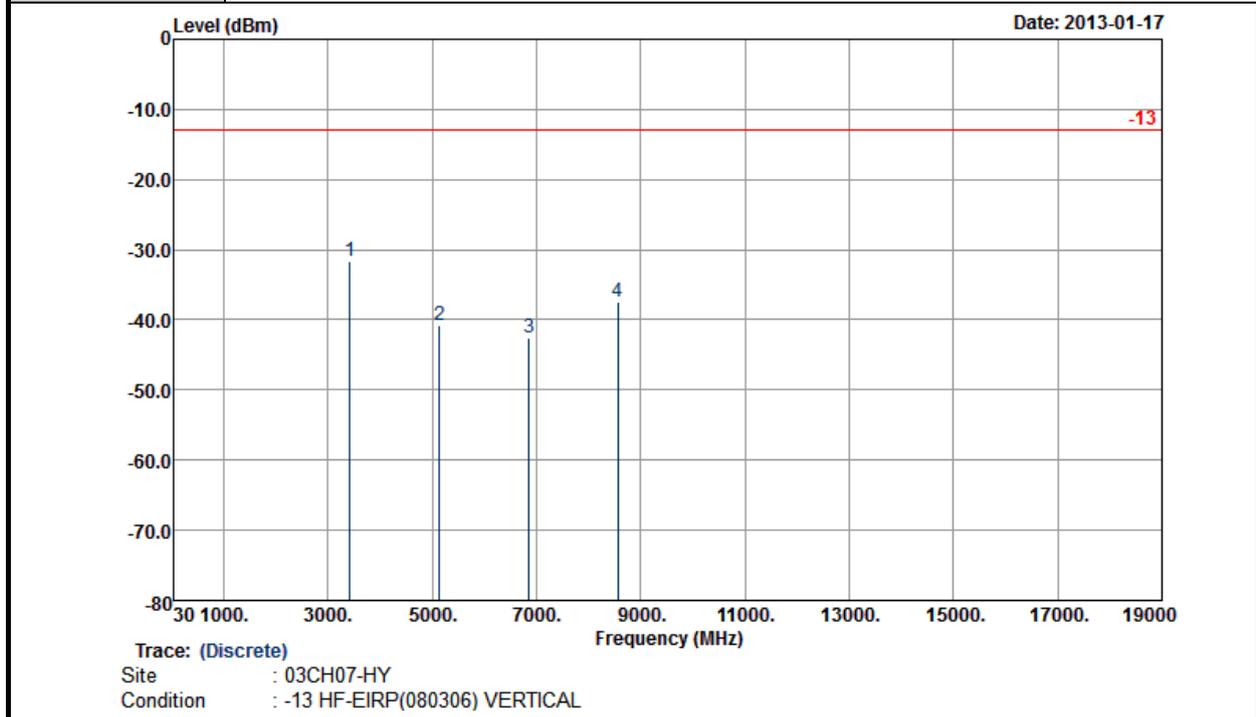
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-38.58	-13	-25.58	-54.15	-40.26	4.48	8.31	H	Pass
5137	-44.62	-13	-31.62	-63.3	-47.11	5.332	9.98	H	Pass
6849	-43.02	-13	-30.02	-68.87	-46.11	6.1	11.34	H	Pass
8561	-42.49	-13	-29.49	-69.09	-45.26	8.25	13.17	H	Pass



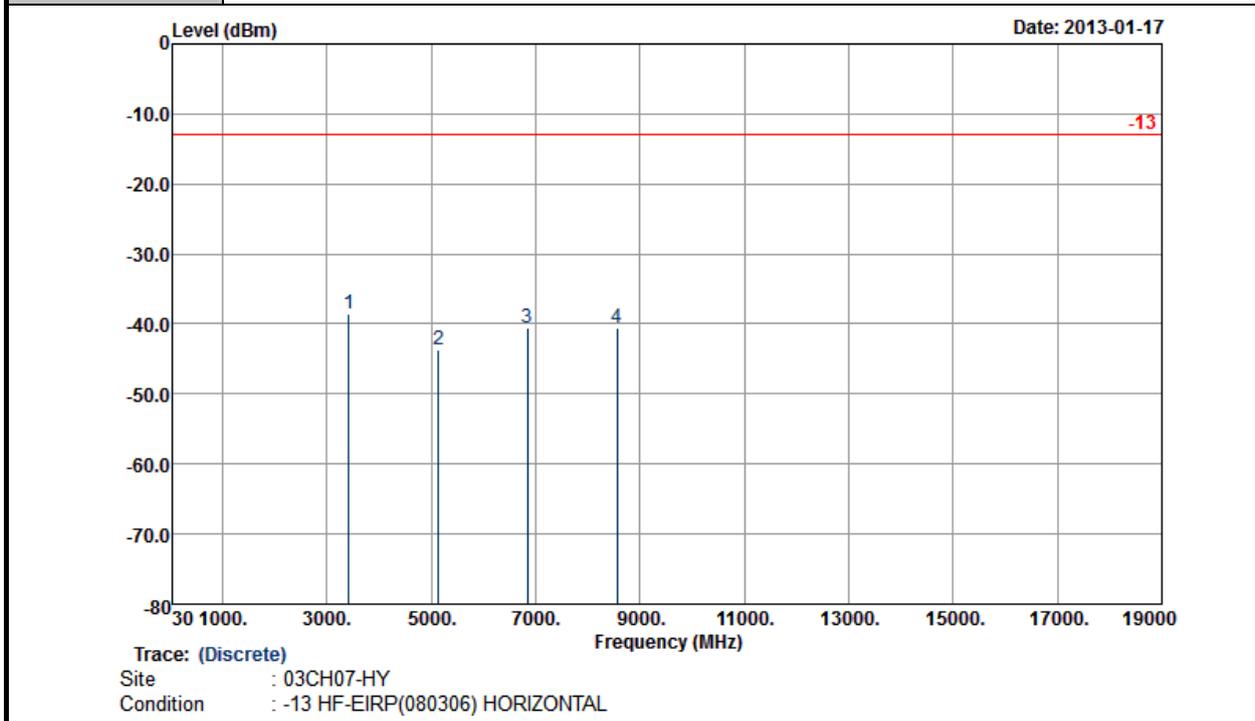
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-31.58	-13	-18.58	-48.48	-33.26	4.48	8.31	V	Pass
5137	-40.75	-13	-27.75	-58.61	-43.24	5.332	9.98	V	Pass
6849	-42.47	-13	-29.47	-68.5	-45.56	6.1	11.34	V	Pass
8561	-37.49	-13	-24.49	-64.06	-40.26	8.25	13.17	V	Pass



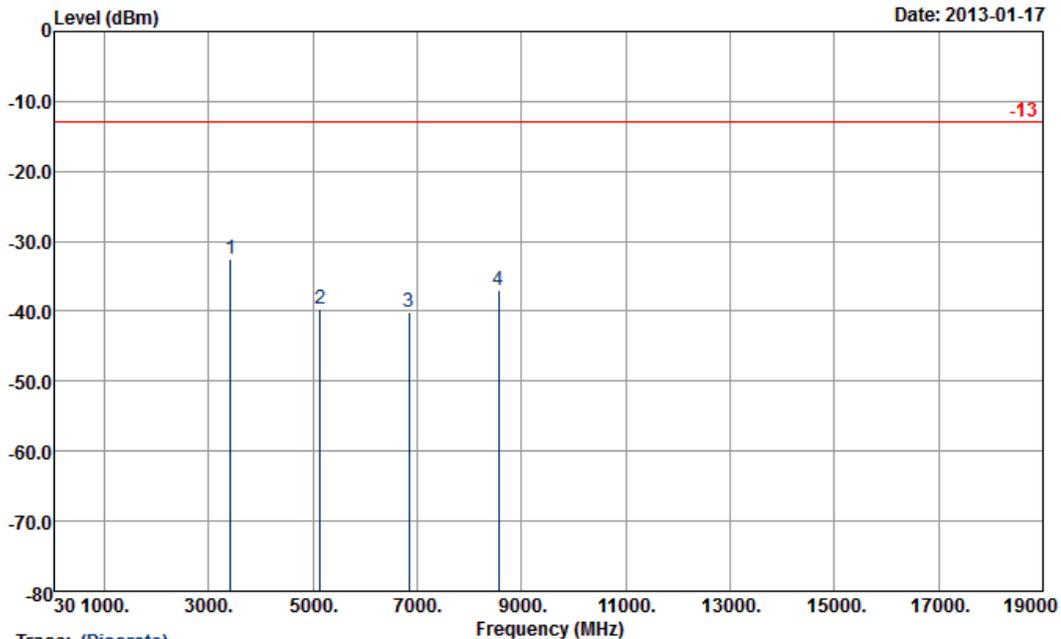
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-38.47	-13	-25.47	-53.99	-40.15	4.48	8.31	H	Pass
5132	-43.76	-13	-30.76	-63.12	-46.25	5.332	9.98	H	Pass
6844	-40.57	-13	-27.57	-67.34	-43.66	6.1	11.34	H	Pass
8552	-40.49	-13	-27.49	-66.89	-43.26	8.25	13.17	H	Pass



<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

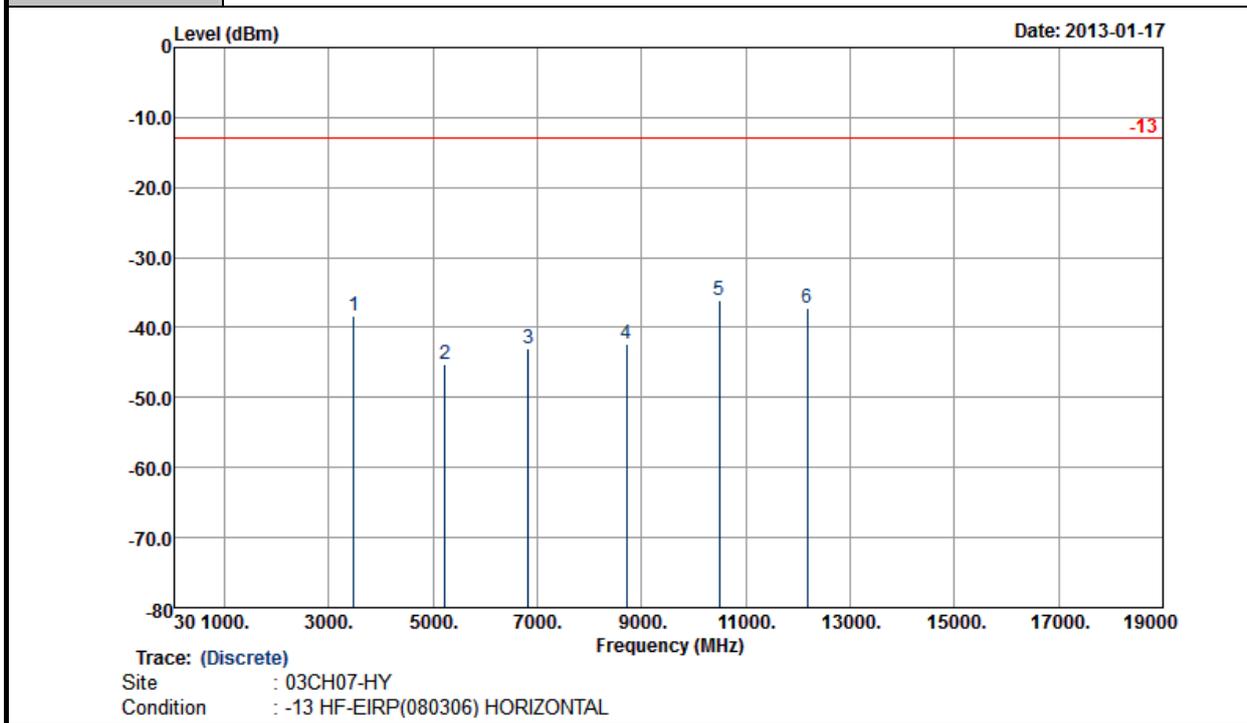


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) VERTICAL

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
3420	-32.58	-13	-19.58	-48.4	-34.26	4.48	8.31	V	Pass
5132	-39.62	-13	-26.62	-58.72	-42.11	5.332	9.98	V	Pass
6844	-40.13	-13	-27.13	-66.48	-43.22	6.1	11.34	V	Pass
8552	-36.92	-13	-23.92	-61.56	-39.69	8.25	13.17	V	Pass



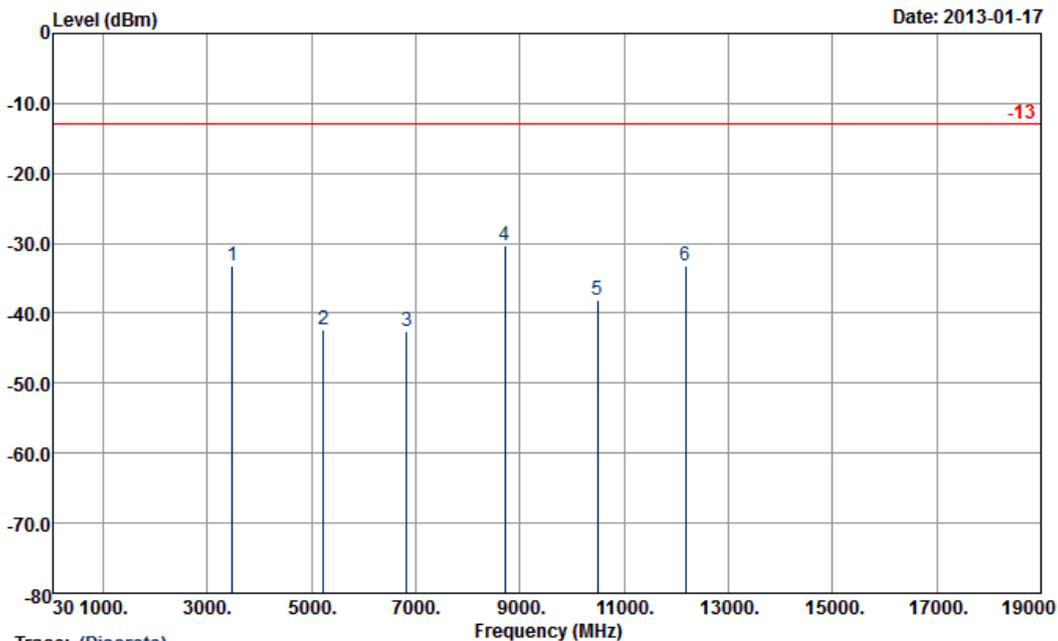
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	15MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3480	-38.38	-13	-25.38	-53.16	-42.52	4.24	8.38	H	Pass
5224	-45.27	-13	-32.27	-65.72	-50.14	5.18	10.05	H	Pass
6824	-43.06	-13	-30.06	-69.13	-48.25	6.19	11.38	H	Pass
8704	-42.27	-13	-29.27	-67.64	-47.26	8.1	13.09	H	Pass
10484	-36.06	-13	-23.06	-66.84	-41.51	7.43	12.88	H	Pass
12184	-37.31	-13	-24.31	-66.99	-40.26	9.89	12.84	H	Pass



Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	15MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Gavin Wu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

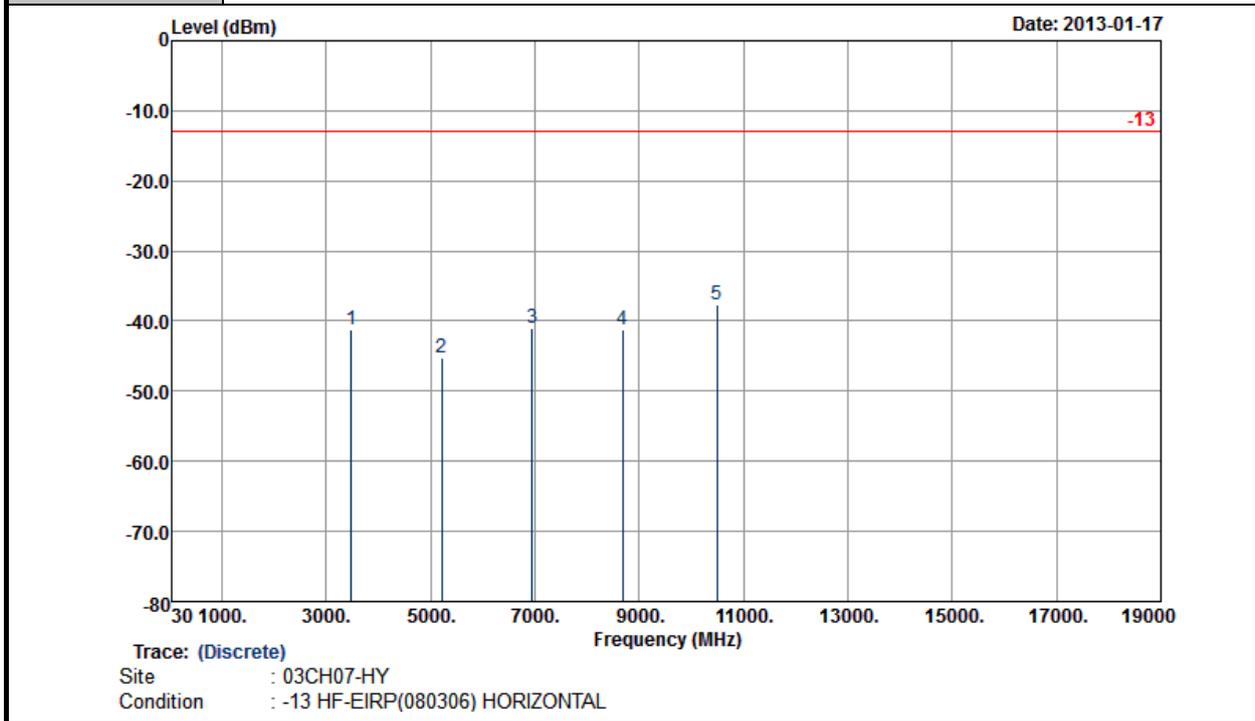


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) VERTICAL

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
3480	-33.12	-13	-20.12	-50.17	-37.26	4.24	8.38	V	Pass
5224	-42.27	-13	-29.27	-61.07	-47.14	5.18	10.05	V	Pass
6824	-42.58	-13	-29.58	-67.85	-47.77	6.19	11.38	V	Pass
8704	-30.26	-13	-17.26	-56.31	-35.25	8.1	13.09	V	Pass
10484	-38.13	-13	-25.13	-67.83	-43.58	7.43	12.88	V	Pass
12184	-33.31	-13	-20.31	-64.95	-36.26	9.89	12.84	V	Pass



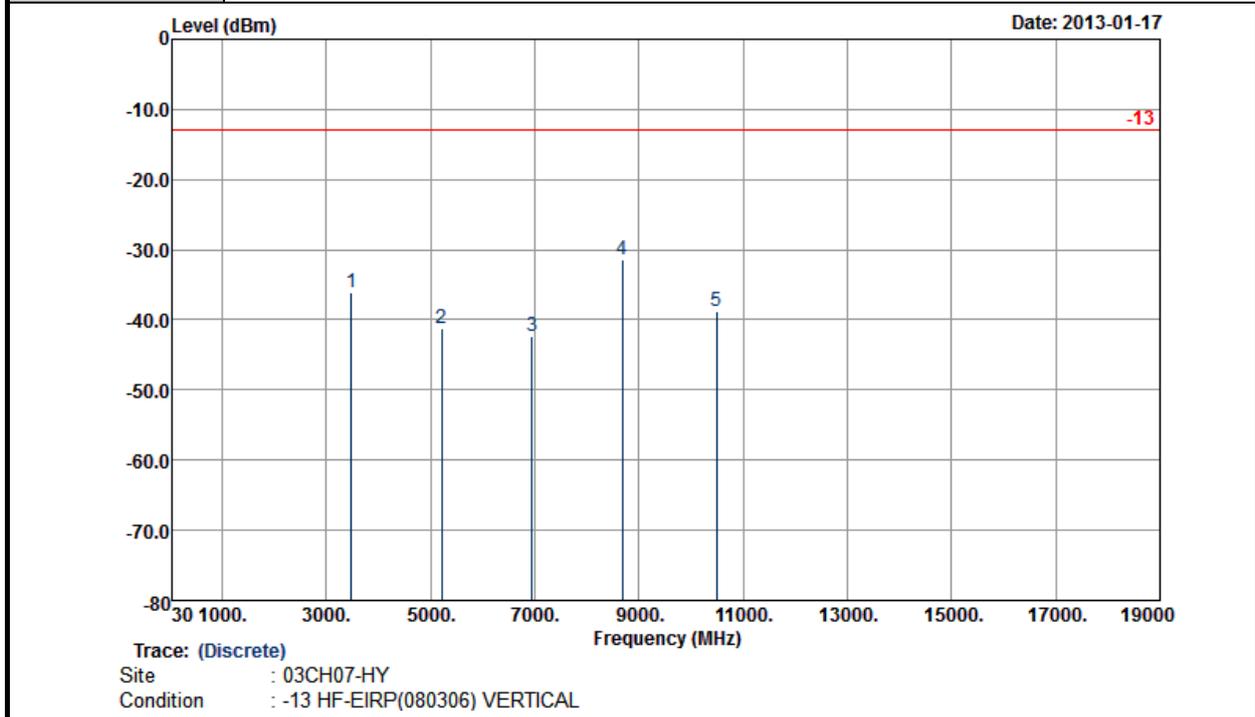
<b>Band :</b>	LTE Band 4	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	20MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3472	-41.17	-13	-28.17	-56.43	-45.26	4.28	8.37	H	Pass
5208	-45.30	-13	-32.30	-64.35	-50.11	5.22	10.03	H	Pass
6948	-41.01	-13	-28.01	-69.04	-46.14	6.23	11.36	H	Pass
8680	-41.33	-13	-28.33	-67.33	-46.26	8.15	13.08	H	Pass
10488	-37.71	-13	-24.71	-66.95	-43.13	7.47	12.89	H	Pass



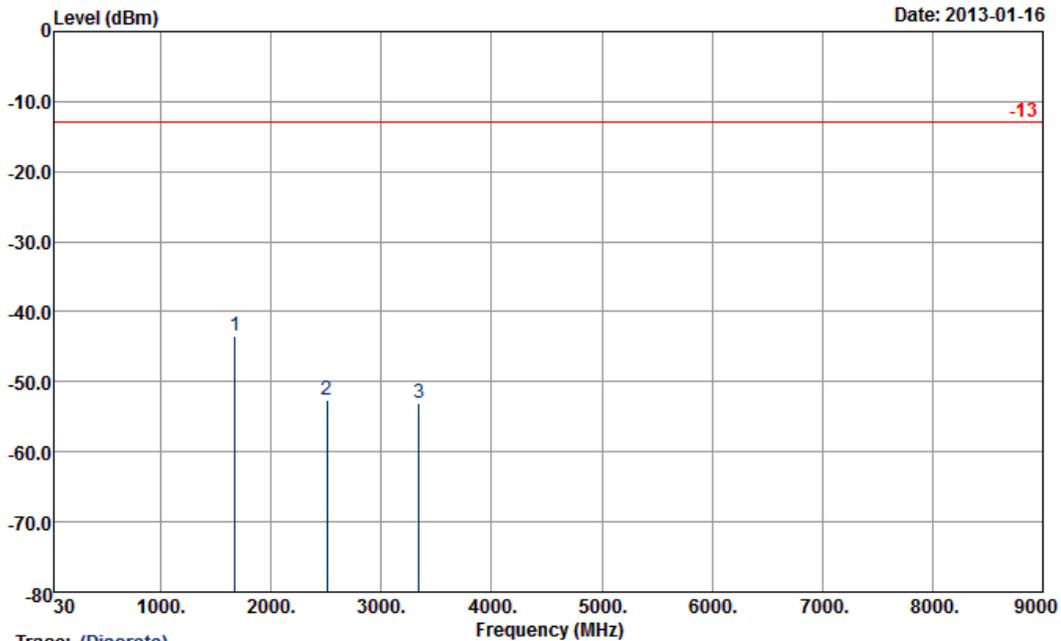
Band :	LTE Band 4	Temperature :	22~24°C
Test Mode :	20MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	51~53%
Test Engineer :	Gavin Wu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3472	-36.17	-13	-23.17	-51.66	-40.26	4.28	8.37	V	Pass
5208	-41.30	-13	-28.30	-60.86	-46.11	5.22	10.03	V	Pass
6948	-42.38	-13	-29.38	-68.49	-47.51	6.23	11.36	V	Pass
8680	-31.33	-13	-18.33	-57.65	-36.26	8.15	13.08	V	Pass
10488	-38.76	-13	-25.76	-68.99	-44.18	7.47	12.89	V	Pass



<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

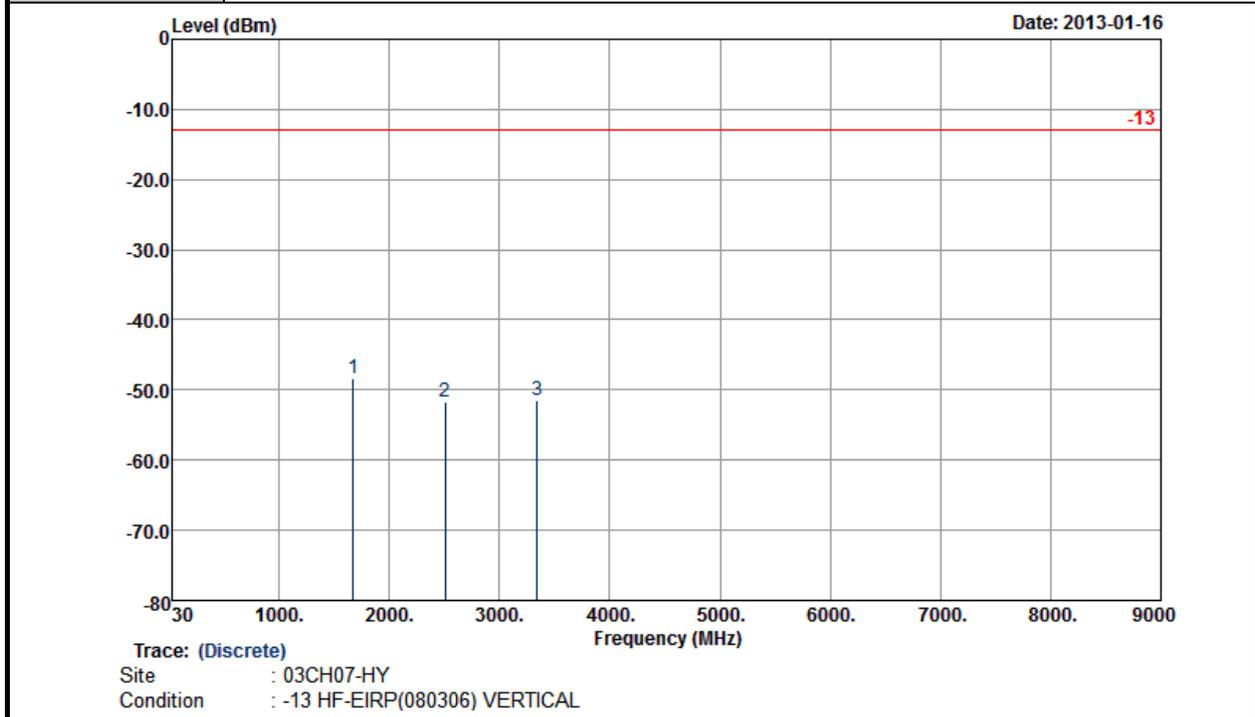


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

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
1672	-43.52	-13	-30.52	-52.61	-45.24	1.62	5.49	H	Pass
2509	-52.69	-13	-39.69	-66.23	-54.66	2.1	6.22	H	Pass
3345	-52.99	-13	-39.99	-67.37	-55.88	3.03	8.07	H	Pass



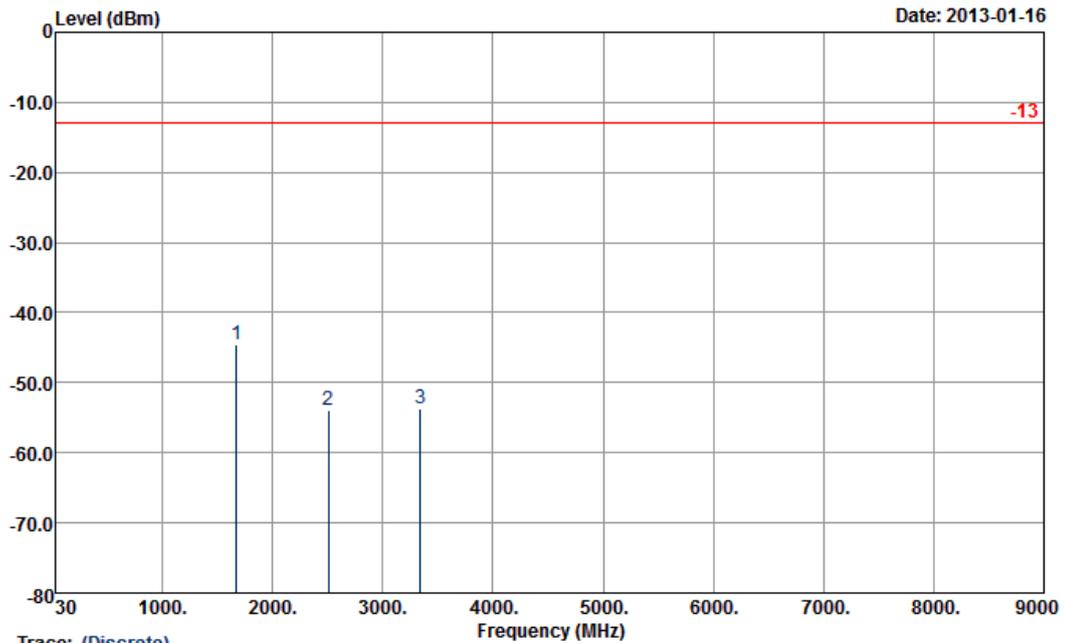
<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	1.4MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1672	-48.39	-13	-35.39	-60.45	-50.11	1.62	5.49	V	Pass
2509	-51.80	-13	-38.80	-66.03	-53.77	2.1	6.22	V	Pass
3345	-51.52	-13	-38.52	-67.31	-54.41	3.03	8.07	V	Pass



<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

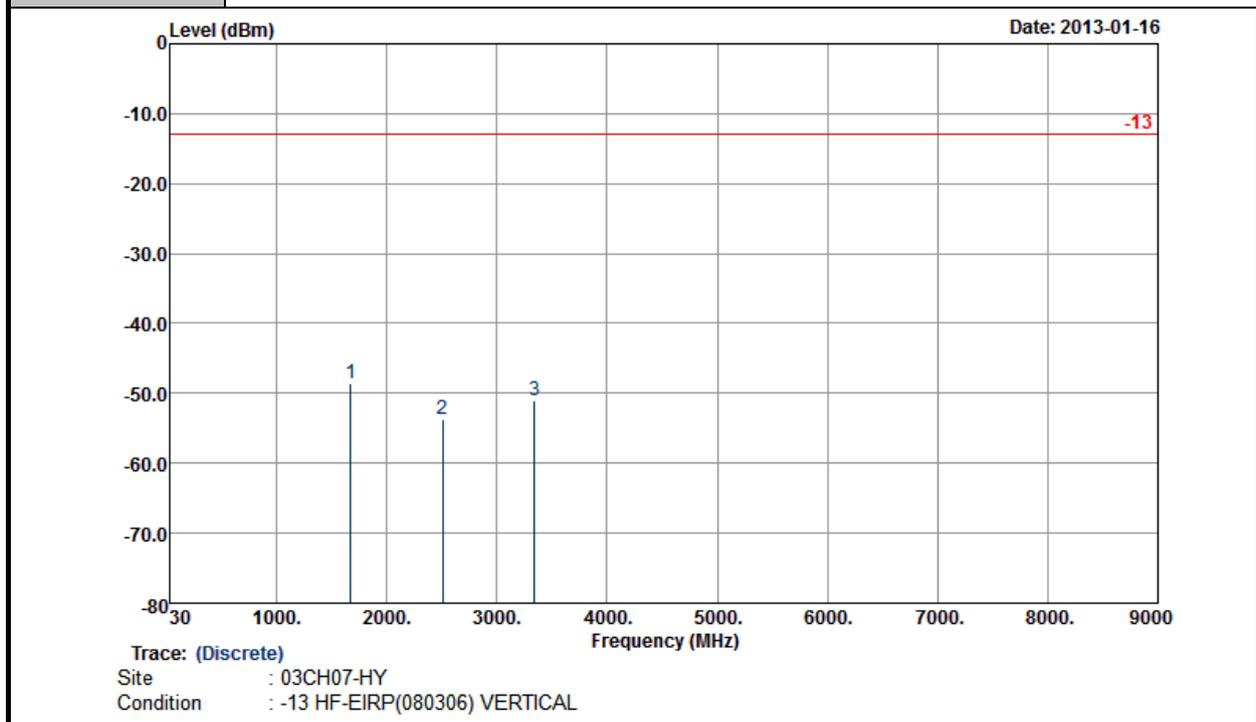


Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

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
1672	-44.54	-13	-31.54	-53.15	-46.26	1.62	5.49	H	Pass
2509	-53.91	-13	-40.91	-67.62	-55.88	2.1	6.22	H	Pass
3345	-53.80	-13	-40.80	-67.54	-56.69	3.03	8.07	H	Pass



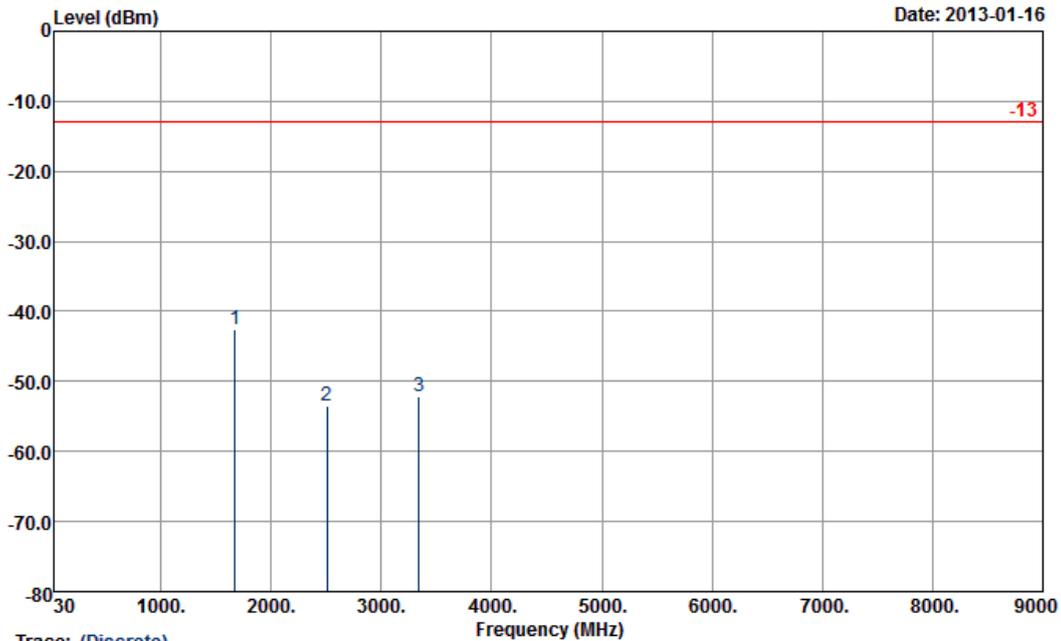
<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	3MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1672	-48.54	-13	-35.54	-59.16	-50.26	1.62	5.49	V	Pass
2509	-53.80	-13	-40.80	-67.7	-55.77	2.1	6.22	V	Pass
3345	-50.99	-13	-37.99	-67.42	-53.88	3.03	8.07	V	Pass



<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

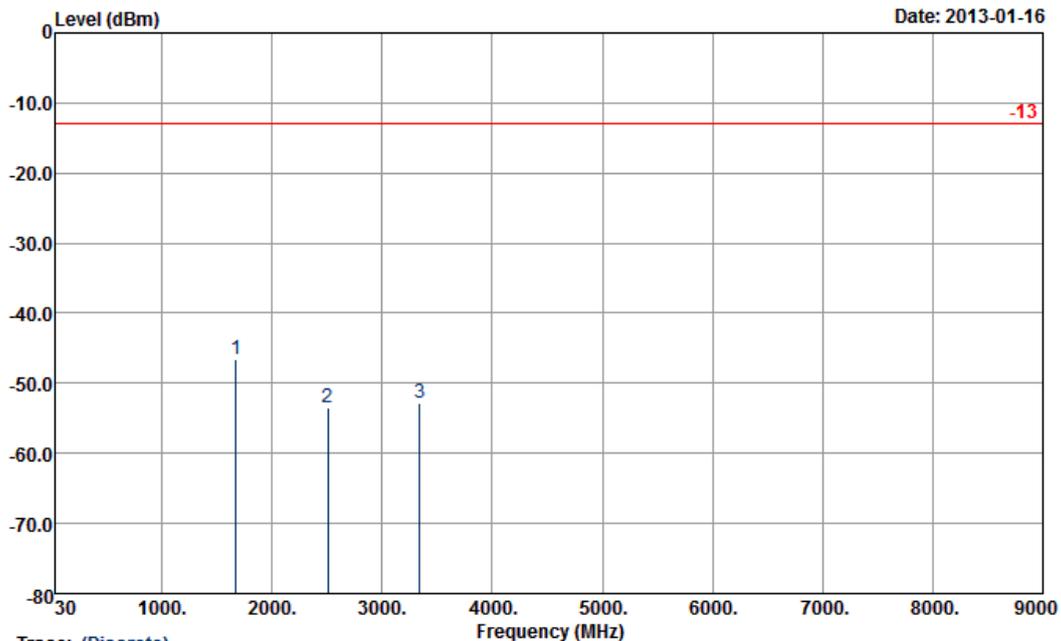


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

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
1672	-42.52	-13	-29.52	-52.1	-44.24	1.62	5.49	H	Pass
2509	-53.59	-13	-40.59	-67.46	-55.56	2.1	6.22	H	Pass
3345	-52.25	-13	-39.25	-67.14	-55.14	3.03	8.07	H	Pass



<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 0	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

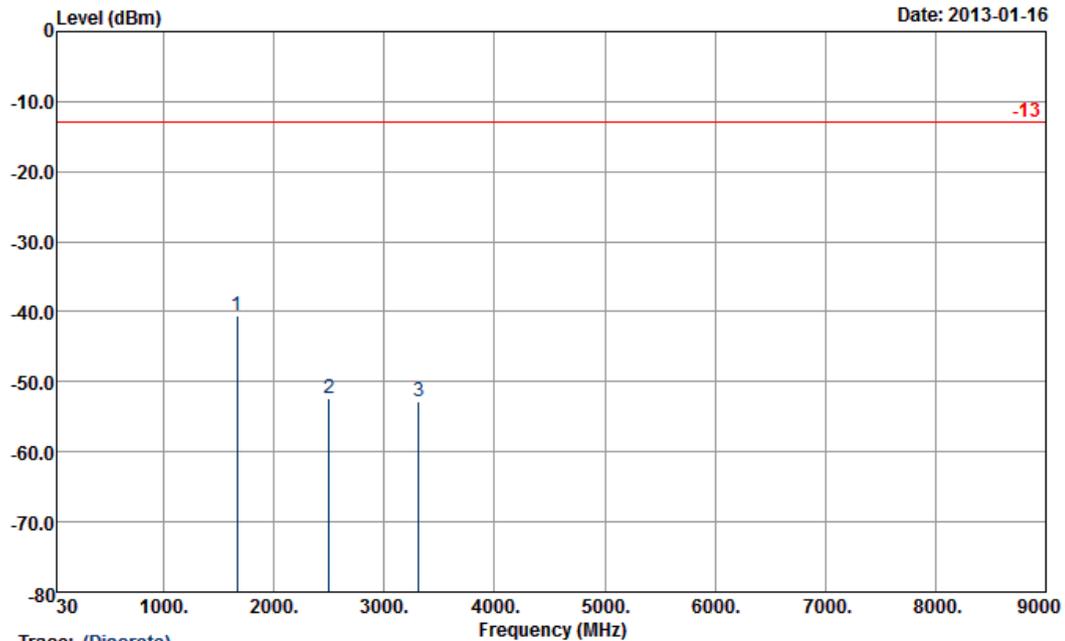


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) VERTICAL

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
1672	-46.52	-13	-33.52	-58.37	-48.24	1.62	5.49	V	Pass
2509	-53.54	-13	-40.54	-67.65	-55.51	2.1	6.22	V	Pass
3345	-52.77	-13	-39.77	-67.59	-55.66	3.03	8.07	V	Pass



<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 49	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

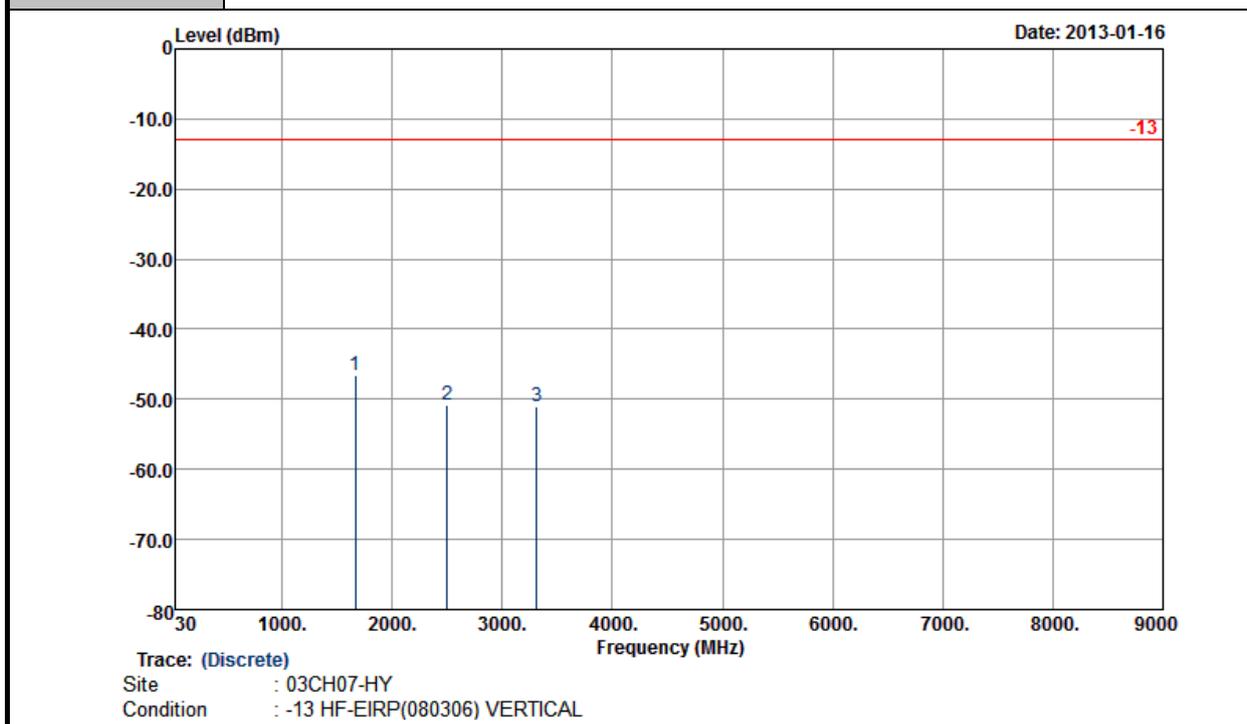


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

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
1666	-40.52	-13	-27.52	-50.27	-42.24	1.62	5.49	H	Pass
2500	-52.29	-13	-39.29	-65.55	-54.26	2.1	6.22	H	Pass
3316	-52.85	-13	-39.85	-67.22	-55.74	3.03	8.07	H	Pass



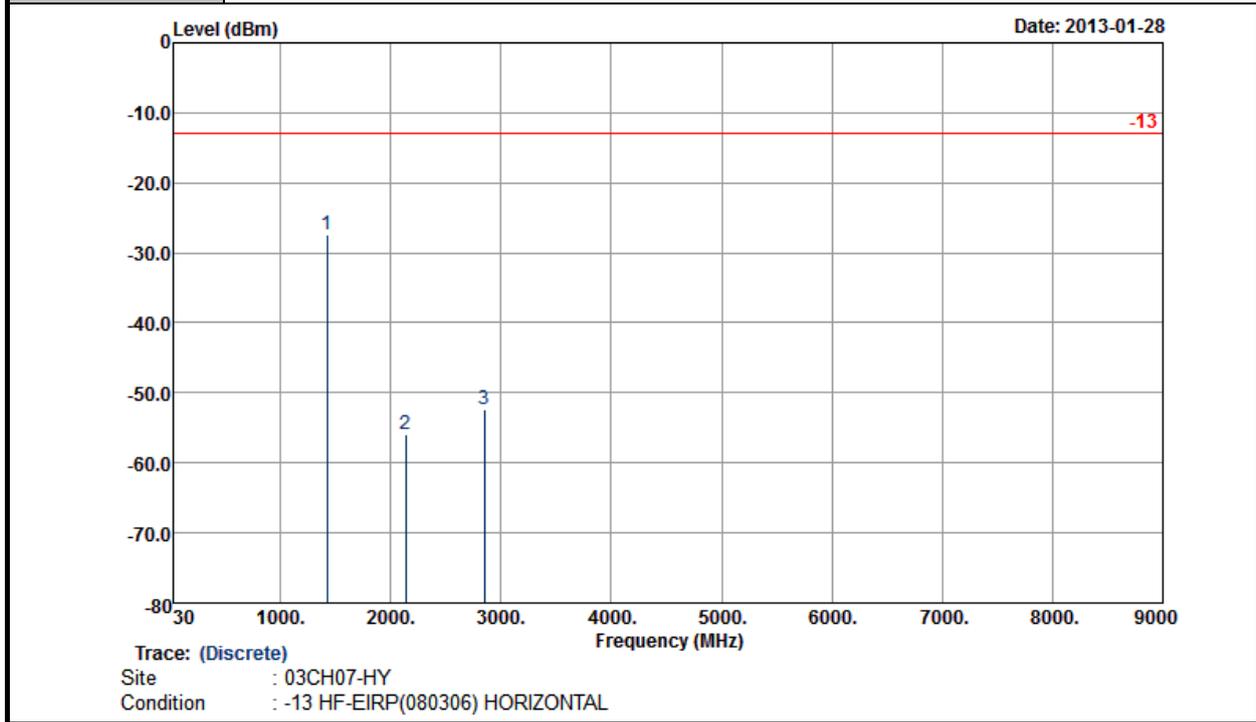
<b>Band :</b>	LTE Band 5	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 49	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1672	-46.54	-13	-33.54	-57.19	-48.26	1.62	5.49	V	Pass
2509	-50.80	-13	-37.80	-65.57	-52.77	2.1	6.22	V	Pass
3316	-51.07	-13	-38.07	-67.16	-53.96	3.03	8.07	V	Pass



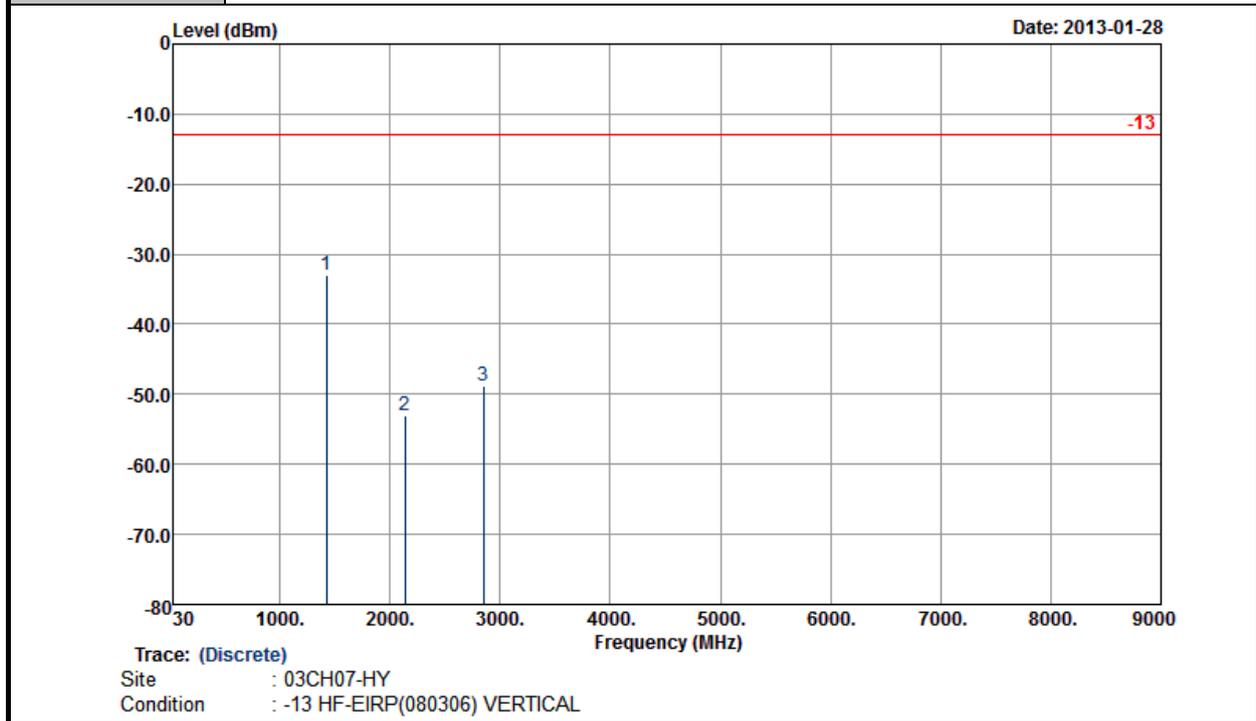
<b>Band :</b>	LTE Band 17	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 24	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1423	-27.42	-13	-14.42	-35.47	-29.35	1.53	5.61	H	Pass
2137	-55.83	-13	-42.83	-67.18	-57.85	1.85	6.02	H	Pass
2848	-52.35	-13	-39.35	-65.8	-54.96	2.24	7.00	H	Pass



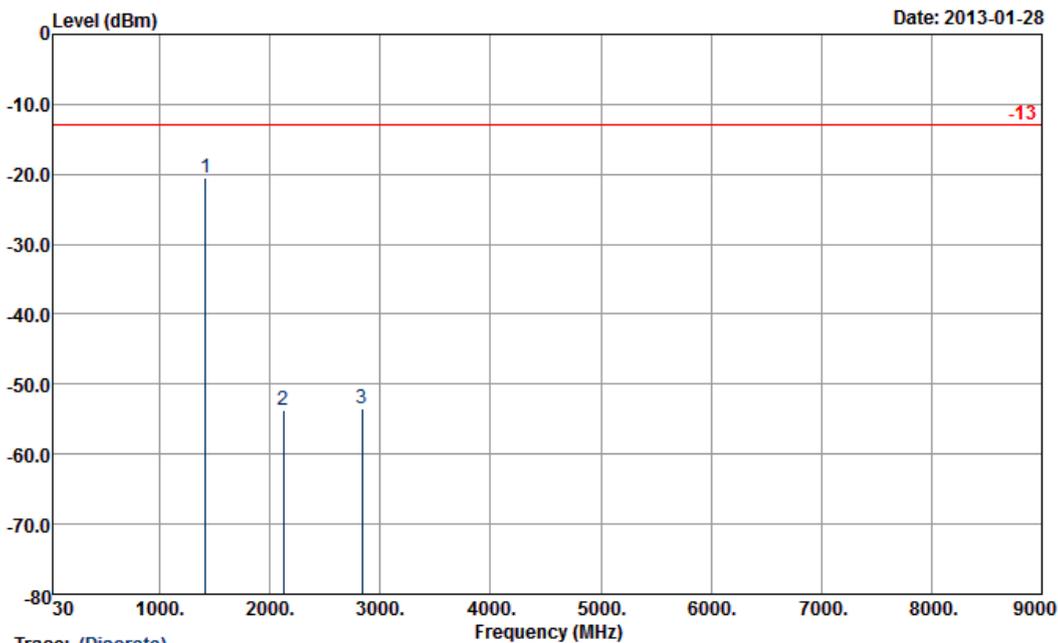
<b>Band :</b>	LTE Band 17	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	5MHz, QPSK, RB Size 1, RB Offset 24	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1423	-32.96	-13	-19.96	-43.27	-34.89	1.53	5.61	V	Pass
2137	-53.10	-13	-40.10	-66.29	-55.12	1.85	6.02	V	Pass
2848	-48.82	-13	-35.82	-63.91	-51.43	2.24	7.00	V	Pass



<b>Band :</b>	LTE Band 17	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 24	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

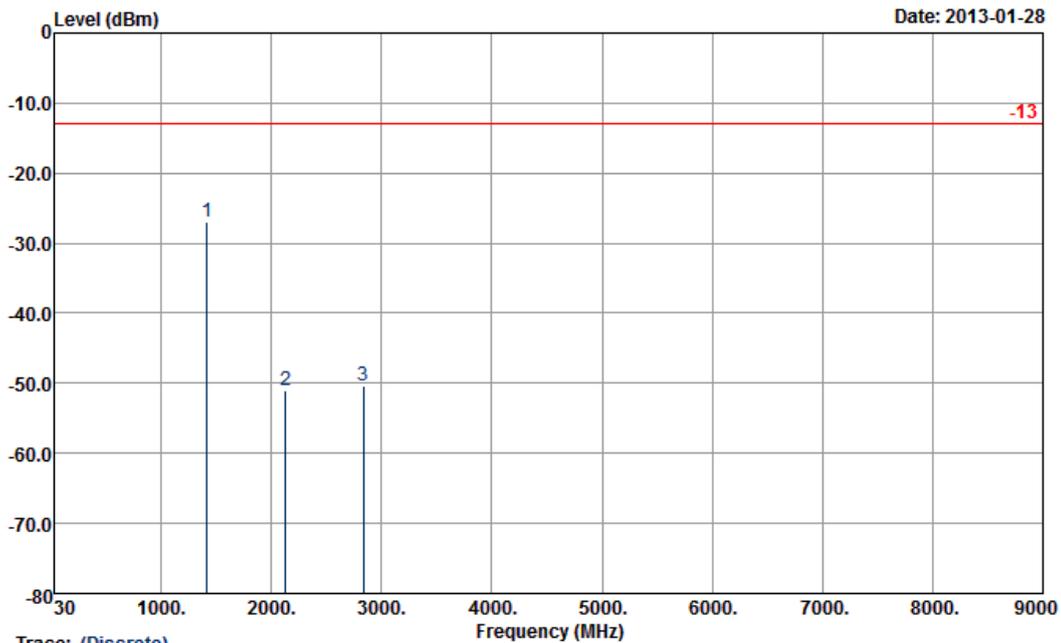


Trace: (Discrete)  
 Site : 03CH07-HY  
 Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-20.55	-13	-7.55	-28.67	-22.49	1.51	5.60	H	Pass
2125	-53.81	-13	-40.81	-65.05	-55.84	1.82	6.00	H	Pass
2833	-53.59	-13	-40.59	-67	-56.22	2.2	6.98	H	Pass



<b>Band :</b>	LTE Band 17	<b>Temperature :</b>	22~24°C
<b>Test Mode :</b>	10MHz, QPSK, RB Size 1, RB Offset 24	<b>Relative Humidity :</b>	51~53%
<b>Test Engineer :</b>	Gavin Wu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	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
1417	-27.04	-13	-14.04	-37.35	-28.98	1.51	5.60	V	Pass
2128	-51.08	-13	-38.08	-64.15	-53.11	1.82	6.00	V	Pass
2836	-50.39	-13	-37.39	-65.39	-53.02	2.2	6.98	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.

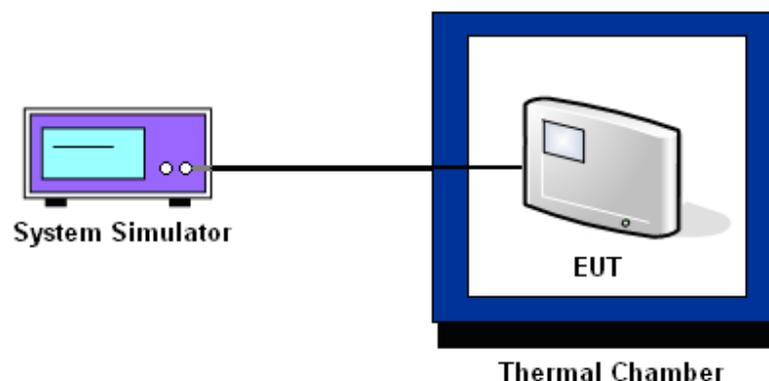
#### 3.7.3 Test Procedures for Temperature Variation

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  $-30^{\circ}\text{C}$  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  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT cannot be turned on at  $-30^{\circ}\text{C}$ , the testing lowest temperature will be raised in  $10^{\circ}\text{C}$  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 (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-11.1	-0.006	-5.4	-0.003	PASS
-20	-8.5	-0.005	-6.3	-0.003	
-10	-5.4	-0.003	12.0	0.006	
0	-5.6	-0.003	-3.2	-0.002	
10	-7.2	-0.004	-4.2	-0.002	
20	10.2	0.005	-6.7	-0.004	
30	7.1	0.004	-10.4	-0.006	
40	6.1	0.003	-8.2	-0.004	
50	-2.3	-0.001	-6.5	-0.003	
55	6.3	0.003	-2.4	-0.001	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.

<b>Band :</b>	LTE Band 2 (QPSK)	<b>Limit (ppm) :</b>	2.5
---------------	-------------------	----------------------	-----

Temperature (°C)	BW 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-5.9	-0.003	-2.5	-0.001	PASS
-20	-8.4	-0.004	-3.2	-0.002	
-10	-4.5	-0.002	-4.6	-0.002	
0	3.5	0.002	-1.5	-0.001	
10	4.6	0.002	-3.4	-0.002	
20	-5.1	-0.003	2.8	0.001	
30	-6.3	-0.003	5.6	0.003	
40	-4.8	-0.003	2.7	0.001	
50	5.6	0.003	-1.6	-0.001	
55	6.8	0.004	2.9	0.002	

**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	-1.7	-0.001	-2.3	-0.001	PASS
-20	-6.3	-0.003	6.3	0.003	
-10	-7.5	-0.004	4.2	0.002	
0	-4.3	-0.002	3.6	0.002	
10	-7.3	-0.004	4.8	0.003	
20	-4.7	-0.002	-3.6	-0.002	
30	-8.2	-0.004	-1.8	-0.001	
40	-9.3	-0.005	2.7	0.001	
50	-4.2	-0.002	-5.6	-0.003	
55	-7.1	-0.004	-7.1	-0.004	

**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	-12.1	-0.006	-9.8	-0.005	PASS
-20	-9.5	-0.005	-10.2	-0.005	
-10	-10.3	-0.005	9.8	0.005	
0	-9.4	-0.005	-8.9	-0.005	
10	-10.9	-0.006	-9.6	-0.005	
20	9.8	0.005	-11.2	-0.006	
30	6.9	0.004	-13.5	-0.007	
40	4.9	0.003	-12.1	-0.006	
50	-5.9	-0.003	-10.4	-0.006	
55	7.1	0.004	-9.7	-0.005	

**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	-5.9	-0.003	-6.9	-0.004	PASS
-20	-8.4	-0.004	-4.8	-0.003	
-10	-4.5	-0.002	-6.8	-0.004	
0	3.5	0.002	-4.2	-0.002	
10	4.6	0.002	-5.5	-0.003	
20	-5.1	-0.003	3.2	0.002	
30	-6.3	-0.003	4.1	0.002	
40	-4.8	-0.003	2.9	0.002	
50	5.6	0.003	-5.9	-0.003	
55	6.8	0.004	4.5	0.002	

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	-10.5	-0.006	-8.9	-0.005	PASS
-20	-9.5	-0.005	-7.4	-0.004	
-10	-11.1	-0.006	-9.5	-0.005	
0	-8.9	-0.005	8.4	0.004	
10	-9.9	-0.005	5.9	0.003	
20	-10.4	-0.006	-6.5	-0.003	
30	-12.6	-0.007	-4.8	-0.003	
40	-10.1	-0.005	9.4	0.005	
50	-9.1	-0.005	-6.9	-0.004	
55	-10.7	-0.006	-8.4	-0.004	

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	8.6	0.005	9.6	0.006	PASS
-20	-11.1	-0.006	-10.3	-0.006	
-10	-9.6	-0.006	-9.9	-0.006	
0	-10.1	-0.006	-9.8	-0.006	
10	-12.0	-0.007	8.6	0.005	
20	-9.8	-0.006	9.3	0.005	
30	10.6	0.006	-9.6	-0.006	
40	9.5	0.005	10.2	0.006	
50	-10.1	-0.006	9.6	0.006	
55	-11.8	-0.007	-8.3	-0.005	

**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	-10.6	-0.006	7.5	0.004	PASS
-20	-8.6	-0.005	-8.6	-0.005	
-10	-9.7	-0.006	-9.1	-0.005	
0	8.2	0.005	8.4	0.005	
10	-8.9	-0.005	-7.9	-0.005	
20	-12.0	-0.007	-11.0	-0.006	
30	-11.0	-0.006	-12.0	-0.007	
40	-10.8	-0.006	9.6	0.006	
50	7.6	0.004	8.7	0.005	
55	10.8	0.006	-8.3	-0.005	

**Note:** The manufacturer declared that the EUT could work properly between temperatures 55°C.



<b>Band :</b>	LTE Band 4 (QPSK)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 15MHz		BW 20MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-9.3	-0.005	7.2	0.004	PASS
-20	-10.6	-0.006	9.0	0.005	
-10	-9.6	-0.006	8.4	0.005	
0	-9.2	-0.005	-11.0	-0.006	
10	-8.9	-0.005	-10.6	-0.006	
20	7.8	0.005	-9.6	-0.006	
30	8.3	0.005	7.8	0.005	
40	-9.2	-0.005	6.9	0.004	
50	-10.6	-0.006	-11.1	-0.006	
55	-11.0	-0.006	-9.5	-0.005	

Note: The manufacturer declared that the EUT could work properly between temperatures 55°C.

<b>Band :</b>	LTE Band 4 (16QAM)		<b>Limit (ppm) :</b>	2.5	
Temperature (°C)	BW 1.4MHz		BW 3MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-12.1	-0.007	-11.2	-0.006	PASS
-20	-10.2	-0.006	10.0	0.006	
-10	-10.9	-0.006	11.2	0.006	
0	-10.1	-0.006	9.8	0.006	
10	-9.7	-0.006	-11.2	-0.006	
20	10.2	0.006	-10.4	-0.006	
30	11.3	0.007	-9.8	-0.006	
40	9.9	0.006	-10.7	-0.006	
50	10.2	0.006	-11.9	-0.007	
55	-11.7	-0.007	-9.9	-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 5MHz		BW 10MHz		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-10.2	-0.006	6.9	0.004	PASS
-20	-9.8	-0.006	-7.8	-0.005	
-10	-11.2	-0.006	-8.4	-0.005	
0	-10.5	-0.006	7.5	0.004	
10	-9.8	-0.006	6.1	0.004	
20	-11.1	-0.006	-8.4	-0.005	
30	-10.5	-0.006	-7.8	-0.005	
40	-12.9	-0.007	-9.1	-0.005	
50	-9.1	-0.005	-9.8	-0.006	
55	-11.8	-0.007	-7.8	-0.005	

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	-8.9	-0.005	-5.9	-0.003	PASS
-20	-10.2	-0.006	-6.8	-0.004	
-10	-9.8	-0.006	-4.8	-0.003	
0	-8.8	-0.005	-5.8	-0.003	
10	-10.8	-0.006	-7.8	-0.005	
20	-9.8	-0.006	-3.5	-0.002	
30	-9.1	-0.005	-4.5	-0.003	
40	-10.3	-0.006	-9.8	-0.006	
50	-11.2	-0.006	-10.2	-0.006	
55	-10.8	-0.006	8.9	0.005	

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	1.9	0.300	0.1	0.000	PASS
-20	4.3	0.006	4.4	0.006	
-10	3.3	0.005	1.6	0.002	
0	8.7	0.012	0.5	0.001	
10	5.6	0.008	1.1	0.002	
20	3.5	0.005	0.9	0.001	
30	4.7	0.007	1.3	0.002	
40	1.8	0.003	-2.3	-0.003	
50	-1.3	-0.002	3.3	0.005	
55	0.1	0.000	4.1	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	-0.9	-0.001	3.0	0.004	PASS
-20	6.6	0.009	0.8	0.001	
-10	0.4	0.001	-0.1	0.000	
0	0.1	0.000	4.9	0.007	
10	4.3	0.006	3.0	0.004	
20	3.9	0.005	3.9	0.005	
30	2.2	0.003	-2.9	-0.004	
40	0.9	0.001	0.8	0.001	
50	-1.0	-0.001	0.4	0.001	
55	8.7	0.012	-1.7	-0.002	

**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	-3.2	-0.005	-2.3	-0.003	PASS
-20	2.2	0.003	2.6	0.004	
-10	1.4	0.002	2.2	0.003	
0	-1.2	-0.002	-1.1	-0.002	
10	0.9	0.001	0.5	0.001	
20	0.8	0.001	1.5	0.002	
30	1.2	0.002	-2.1	-0.003	
40	-0.9	-0.001	1.9	0.003	
50	1.8	0.003	-2.0	-0.003	
55	1.5	0.002	-1.3	-0.002	

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	2.1	0.003	-3.2	-0.005	PASS
-20	-1.8	-0.003	-2.6	-0.004	
-10	-0.5	-0.001	3.8	0.005	
0	-1.5	-0.002	-3.5	-0.005	
10	0.9	0.001	-3.2	-0.005	
20	-2.2	-0.003	1.5	0.002	
30	-2.1	-0.003	1.9	0.003	
40	-1.1	-0.002	2.5	0.004	
50	2.5	0.004	-3.1	-0.004	
55	-2.3	-0.003	2.9	0.004	

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	-3.1	-0.004	-0.7	-0.001	PASS
-20	-2.5	-0.004	-1.4	-0.002	
-10	-0.7	-0.001	-0.9	-0.001	
0	-1.8	-0.003	-0.5	-0.001	
10	-2.4	-0.003	-1.3	-0.002	
20	-2.7	-0.004	-0.1	0.000	
30	-1.4	-0.002	1.5	0.002	
40	-0.8	-0.001	-0.5	-0.001	
50	-0.1	0.000	-1.6	-0.002	
55	-1.5	-0.002	-0.7	-0.001	

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	-4.0	-0.006	-1.2	-0.002	PASS
-20	-3.8	-0.005	-1.6	-0.002	
-10	2.9	0.004	0.8	0.001	
0	2.2	0.003	-1.2	-0.002	
10	2.3	0.003	2.3	0.003	
20	-2.0	-0.003	2.1	0.003	
30	-2.0	-0.003	1.9	0.003	
40	-2.6	-0.004	-1.2	-0.002	
50	-1.0	-0.001	-1.9	-0.003	
55	-1.6	-0.002	2.6	0.004	

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	Normal	-3.5	-0.002	2.5	PASS
		3.5	-6.4	-0.003		
		4.2	-10.2	-0.005		
	3M	Normal	-7.2	-0.004		
		3.5	-7.7	-0.004		
		4.2	-8.2	-0.004		
	5M	Normal	-3.0	-0.002		
		3.5	5.3	0.003		
		4.2	4.3	0.002		
	10M	Normal	-3.2	-0.002		
		3.5	-4.7	-0.003		
		4.2	2.8	0.001		
	15M	Normal	-9.3	-0.005		
		3.5	-10.1	-0.005		
		4.2	-6.1	-0.003		
	20M	Normal	-12.4	-0.007		
		3.5	-11.3	-0.006		
		4.2	-5.7	-0.003		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 2 (16QAM)	1.4M	Normal	-10.5	-0.006	2.5	PASS
		3.5	-9.7	-0.005		
		4.2	-11.5	-0.006		
	3M	Normal	-8.9	-0.005		
		3.5	-9.4	-0.005		
		4.2	-10.1	-0.005		
	5M	Normal	-4.5	-0.002		
		3.5	6.4	0.003		
		4.2	5.9	0.003		
	10M	Normal	-4.9	-0.003		
		3.5	-3.7	-0.002		
		4.2	5.4	0.003		
	15M	Normal	-10.5	-0.006		
		3.5	-11.2	-0.006		
		4.2	-9.8	-0.005		
	20M	Normal	-9.4	-0.005		
		3.5	-10.2	-0.005		
		4.2	-8.9	-0.005		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 4 (QPSK)	1.4M	Normal	-1.3	-0.001	2.5	PASS
		3.5	-5.7	-0.003		
		4.2	-0.9	-0.001		
	3M	Normal	-7.3	-0.004		
		3.5	-8.2	-0.005		
		4.2	-6.2	-0.004		
	5M	Normal	-2.6	-0.002		
		3.5	-1.9	-0.001		
		4.2	-0.5	0.000		
	10M	Normal	-3.7	-0.002		
		3.5	-8.4	-0.005		
		4.2	-3.4	-0.002		
	15M	Normal	1.3	0.001		
		3.5	-0.5	0.000		
		4.2	-4.2	-0.002		
	20M	Normal	-5.5	-0.003		
		3.5	-4.3	-0.002		
		4.2	-6.8	-0.004		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 4 (16QAM)	1.4M	Normal	-9.9	-0.006	2.5	PASS
		3.5	-9.1	-0.005		
		4.2	10.3	0.006		
	3M	Normal	-11.1	-0.006		
		3.5	-10.7	-0.006		
		4.2	-9.8	-0.006		
	5M	Normal	-9.9	-0.006		
		3.5	10.2	0.006		
		4.2	-11.6	-0.007		
	10M	Normal	8.1	0.005		
		3.5	6.5	0.004		
		4.2	-7.8	-0.005		
	15M	Normal	-10.3	-0.006		
		3.5	-9.8	-0.006		
		4.2	-12.3	-0.007		
	20M	Normal	-6.9	-0.004		
		3.5	-4.9	-0.003		
		4.2	7.8	0.005		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5 (QPSK)	1.4M	Normal	3.1	0.004	2.5	PASS
		3.5	2.6	0.004		
		4.2	3.0	0.004		
	3M	Normal	-5.2	-0.007		
		3.5	4.3	0.006		
		4.2	3.8	0.005		
	5M	Normal	2.9	0.004		
		3.5	2.5	0.004		
		4.2	-3.0	-0.004		
	10M	Normal	-2.8	-0.004		
		3.5	3.9	0.006		
		4.2	4.0	0.006		

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5 (16QAM)	1.4M	Normal	2.3	0.003	2.5	PASS
		3.5	-2.1	-0.003		
		4.2	2.7	0.004		
	3M	Normal	-2.1	-0.003		
		3.5	2.3	0.003		
		4.2	1.5	0.002		
	5M	Normal	-3.4	-0.005		
		3.5	-1.5	-0.002		
		4.2	-2.1	-0.003		
	10M	Normal	-2.6	-0.004		
		3.5	-1.5	-0.002		
		4.2	-2.9	-0.004		



Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 17 (QPSK)	5M	Normal	-1.9	-0.003	2.5	PASS
		3.5	-1.1	-0.002		
		4.2	-1.4	-0.002		
	10M	Normal	-1.8	-0.003		
		3.5	-0.2	0.000		
		4.2	-0.7	-0.001		

Band	Bandwidth	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 17 (16QAM)	5M	Normal	-2.3	-0.003	2.5	PASS
		3.5	-1.9	-0.003		
		4.2	-3.1	-0.004		
	10M	Normal	2.0	0.003		
		3.5	1.8	0.003		
		4.2	-2.7	-0.004		

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	Jan. 15, 2013~ Mar. 13, 2013	Dec. 28, 2013	Conducted (TH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Nov. 08, 2012	Jan. 15, 2013~ Mar. 13, 2013	Nov. 07, 2013	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Jan. 15, 2013~ Mar. 13, 2013	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 29, 2012	Jan. 15, 2013~ Mar. 13, 2013	Dec. 28, 2013	Conducted (TH01-KS)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 06, 2012	Jan. 16, 2013~ Jan. 28, 2013	Oct. 05, 2013	Radiation (03CH07-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9KHz ~ 30GHz	Nov. 30, 2012	Jan. 16, 2013~ Jan. 28, 2013	Nov. 29, 2013	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 22, 2012	Jan. 16, 2013~ Jan. 28, 2013	Aug. 21, 2013	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec. 01, 2012	Jan. 16, 2013~ Jan. 28, 2013	Nov. 30, 2013	Radiation (03CH07-HY)
Pre Amplifier	MITEQ	AMF-7D-001018 00-30-10P	159088	1GHz ~ 18GHz	Mar. 10, 2012	Jan. 16, 2013~ Jan. 28, 2013	Mar. 09, 2013	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz. 32dB.GAIN	Feb. 27, 2012	Jan. 16, 2013~ Jan. 28, 2013	Feb. 26, 2013	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Sep. 03, 2012	Jan. 16, 2013~ Jan. 28, 2013	Sep. 02, 2013	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Sep. 28, 2012	Jan. 16, 2013~ Jan. 28, 2013	Sep. 27, 2013	Radiation (03CH07-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	Jul. 03, 2012	Jan. 16, 2013~ Jan. 28, 2013	Jul. 02, 2013	Radiation (03CH07-HY)
LTE Base Station	R&S	CMW500	123471	70MHz~3.3GHz	May 29, 2012	Jan. 16, 2013~ Jan. 28, 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
---	------

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.72
---	------



## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP2D2804 as below.