

# FCC RF Test Report

APPLICANT : Sony Mobile Communications Inc.  
EQUIPMENT : GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII  
a/b/g/n/ac, ANT+, and NFC  
BRAND NAME : Sony  
FCC ID : PY7-PM0900  
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jul. 16, 2015 and testing was completed on Aug. 18, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



---

Reviewed by: Joseph Lin / Supervisor



---

Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.



## TABLE OF CONTENTS

|                                                                                       |           |
|---------------------------------------------------------------------------------------|-----------|
| <b>REVISION HISTORY.....</b>                                                          | <b>3</b>  |
| <b>SUMMARY OF TEST RESULT .....</b>                                                   | <b>4</b>  |
| <b>1 GENERAL DESCRIPTION .....</b>                                                    | <b>5</b>  |
| 1.1 Applicant.....                                                                    | 5         |
| 1.2 Manufacturer .....                                                                | 5         |
| 1.3 Product Feature of Equipment Under Test .....                                     | 5         |
| 1.4 Modification of EUT .....                                                         | 6         |
| 1.5 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator .....        | 6         |
| 1.6 Testing Location .....                                                            | 7         |
| 1.7 Applicable Standards .....                                                        | 7         |
| <b>2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST .....</b>                             | <b>8</b>  |
| 2.1 Test Mode.....                                                                    | 8         |
| 2.2 Connection Diagram of Test System .....                                           | 9         |
| 2.3 Support Unit used in test configuration .....                                     | 10        |
| 2.4 Measurement Results Explanation Example .....                                     | 10        |
| <b>3 CONDUCTED TEST RESULT.....</b>                                                   | <b>11</b> |
| 3.1 Measuring Instruments.....                                                        | 11        |
| 3.2 Test Setup .....                                                                  | 11        |
| 3.3 Test Result of Conducted Test.....                                                | 11        |
| 3.4 Conducted Output Power .....                                                      | 12        |
| 3.5 Peak-to-Average Ratio .....                                                       | 12        |
| 3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement.....                        | 13        |
| 3.7 Conducted Band Edge .....                                                         | 14        |
| 3.8 Conducted Spurious Emission .....                                                 | 15        |
| 3.9 Frequency Stability .....                                                         | 16        |
| <b>4 RADIATED TEST ITEMS .....</b>                                                    | <b>17</b> |
| 4.1 Measuring Instruments.....                                                        | 17        |
| 4.2 Test Setup .....                                                                  | 17        |
| 4.3 Test Result of Radiated Test.....                                                 | 17        |
| 4.4 Effective Radiated Power and Effective Isotropic Radiated Power Measurement ..... | 18        |
| 4.5 Field Strength of Spurious Radiation Measurement .....                            | 20        |
| <b>5 LIST OF MEASURING EQUIPMENT .....</b>                                            | <b>21</b> |
| <b>6 UNCERTAINTY OF EVALUATION .....</b>                                              | <b>23</b> |
| <b>APPENDIX A. TEST RESULTS OF CONDUCTED TEST</b>                                     |           |
| <b>APPENDIX B. TEST RESULTS OF RADIATED TEST</b>                                      |           |



## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG571610A  | Rev. 01 | Initial issue of report | Aug. 31, 2015 |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                            | Description                                   | Limit                  | Result | Remark                                     |
|----------------|-------------------------------------|-----------------------------------------------|------------------------|--------|--------------------------------------------|
| 3.4            | §2.1046                             | Conducted Output Power                        | Reporting Only         | PASS   | -                                          |
| 3.5            | §24.232(d)                          | Peak-to-Average Ratio                         | < 13 dB                | PASS   | -                                          |
| 3.6            | §2.1049<br>§22.917(b)<br>§24.238(b) | Occupied Bandwidth                            | Reporting Only         | PASS   | -                                          |
| 3.7            | §2.1051<br>§22.917(a)<br>§24.238(a) | Band Edge Measurement                         | < 43+10log10(P[Watts]) | PASS   | -                                          |
| 3.8            | §2.1051<br>§22.917(a)<br>§24.238(a) | Conducted Emission                            | < 43+10log10(P[Watts]) | PASS   | -                                          |
| 3.9            | §2.1055<br>§22.355                  | Frequency Stability for Temperature & Voltage | < 2.5 ppm for Part 22  | PASS   | -                                          |
|                | §2.1055<br>§24.235                  |                                               | Within Authorized Band |        |                                            |
| 4.4            | §22.913(a)(2)                       | Effective Radiated Power                      | < 7 Watts              | PASS   | -                                          |
|                | §24.232(c)                          | Equivalent Isotropic Radiated Power           | < 2 Watts              | PASS   | -                                          |
| 4.5            | §2.1053<br>§22.917(a)<br>§24.238(a) | Field Strength of Spurious Radiation          | < 43+10log10(P[Watts]) | PASS   | Under limit<br>34.56 dB at<br>7627.000 MHz |



# 1 General Description

## 1.1 Applicant

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

## 1.2 Manufacturer

Sony Mobile Communications Inc.  
1-8-15 Konan, Minato-ku, Tokyo, 108-0075, Japan

## 1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, ANT+, NFC and GPS

| Product Specification subjective to this standard |                  |
|---------------------------------------------------|------------------|
| Antenna Type                                      | Monopole Antenna |

| EUT Information List |            |              |            |                                             |
|----------------------|------------|--------------|------------|---------------------------------------------|
| IMEI                 | HW Version | SW Version   | S/N        | Performed Test Item                         |
| 004402455306161      | A          | 32.0.A.0.323 | CB5A273T51 | RF conducted measurement                    |
| 004402455306435      |            |              | CB5A273T8B | Radiated Spurious Emission<br>ERP/EIRP Test |

| Accessory List |                       |
|----------------|-----------------------|
| AC Adapter     | Model No. : UCH20     |
|                | Type No. : AC-0061-US |
|                | S/N : 5815W22500089   |
| Earphone       | Model No. : MDR-NC31E |
|                | Type No. : AG-1110    |
| USB Cable      | Model No. : UCB11     |
|                | Type No. : AI-0120    |
|                | S/N : 1522A733000210  |

### Note:

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



## 1.4 Modification of EUT

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

## 1.5 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

| FCC Rule | System                     | Type of Modulation | Maximum ERP/EIRP (W) | Frequency Tolerance (ppm) | Emission Designator |
|----------|----------------------------|--------------------|----------------------|---------------------------|---------------------|
| Part 22  | GSM850 GPRS class 8        | GMSK               | 0.4909               | 0.0096 ppm                | 247KGXW             |
| Part 22  | GSM850 EDGE class 8        | 8PSK               | 0.1671               | 0.0060 ppm                | 244KG7W             |
| Part 22  | WCDMA Band V RMC 12.2Kbps  | QPSK               | 0.0824               | 0.0120 ppm                | 4M16F9W             |
| Part 24  | GSM1900 GPRS class 8       | GMSK               | 0.3767               | 0.0080 ppm                | 245KGXW             |
| Part 24  | GSM1900 EDGE class 8       | 8PSK               | 0.2089               | 0.0144 ppm                | 248KG7W             |
| Part 24  | WCDMA Band II RMC 12.2Kbps | QPSK               | 0.0718               | 0.0085 ppm                | 4M16F9W             |

## 1.6 Testing Location

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

|                    |                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC.                                                                                                                                       |
| Test Site Location | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| Test Site No.      | Sporton Site No.                                                                                                                                                 |
|                    | TH03-HY                                                                                                                                                          |

|                    |                                                                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC.                                                                                                             |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| Test Site No.      | Sporton Site No.                                                                                                                       |
|                    | 03CH10-HY                                                                                                                              |

## 1.7 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

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

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

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

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

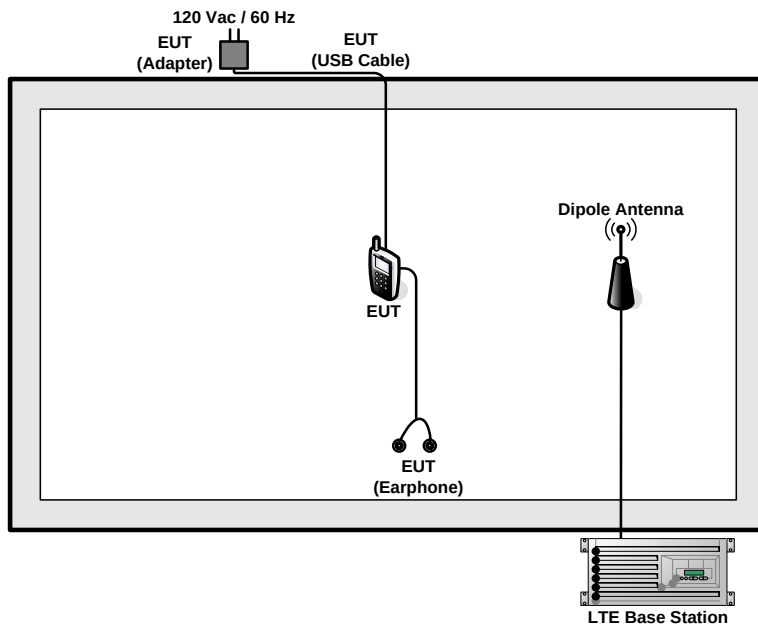
All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

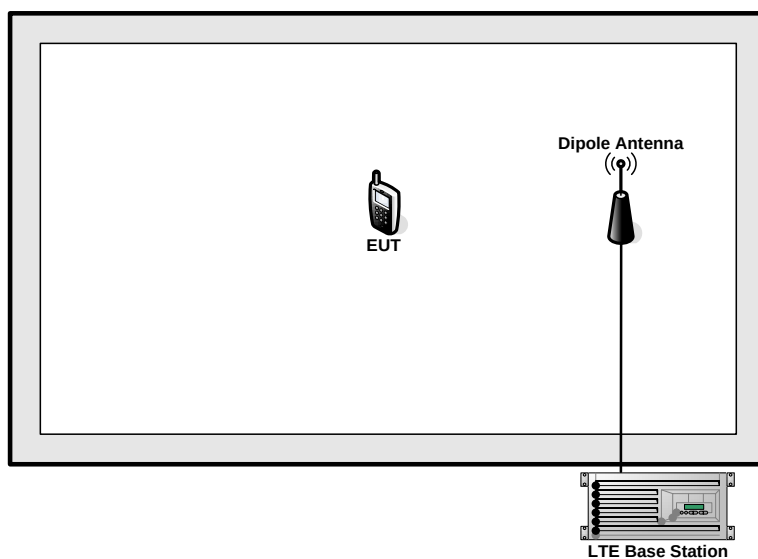
| Test Modes    |                     |                     |
|---------------|---------------------|---------------------|
| Band          | Radiated TCs        | Conducted TCs       |
| GSM 850       | ■ GPRS class 8 Link | ■ GPRS class 8 Link |
|               | ■ EDGE class 8 Link | ■ EDGE class 8 Link |
| GSM 1900      | ■ GPRS class 8 Link | ■ GPRS class 8 Link |
|               | ■ EDGE class 8 Link | ■ EDGE class 8 Link |
| WCDMA Band V  | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |
| WCDMA Band II | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |

## 2.2 Connection Diagram of Test System

### <EUT with Adapter and Earphone>



### <EUT without Adapter and Earphone>



## 2.3 Support Unit used in test configuration

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator | R&S        | CMU 200   | N/A    | N/A        | Unshielded, 1.8 m |

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

Example :

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

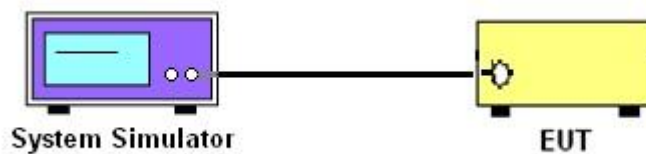
### 3 Conducted Test Result

#### 3.1 Measuring Instruments

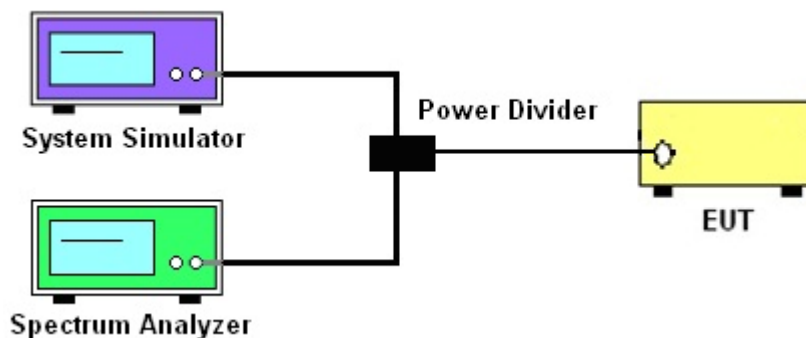
See list of measuring instruments of this test report.

#### 3.2 Test Setup

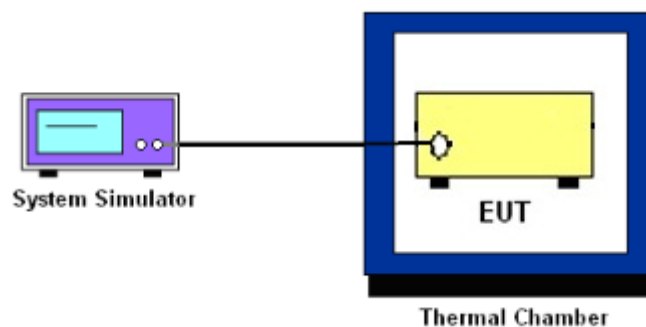
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

### 3.4 Conducted Output Power

#### 3.4.1 Description of the Conducted Output Power

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

#### 3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

### 3.5 Peak-to-Average Ratio

#### 3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### 3.5.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. Set EUT to transmit at maximum output power.
4. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.

## 3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 99% 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 two sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

### 3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 4.2.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3\*RBW, sample detector, trace maximum hold.
5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3\*RBW, peak detector, trace maximum hold.



## **3.7 Conducted Band Edge**

### **3.7.1 Description of Conducted Band Edge 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.

### **3.7.2 Test Procedures**

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
4. The band edges of low and high channels for the highest RF powers were measured.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
=  $P(W) - [43 + 10\log(P)]$  (dB)  
=  $[30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
= -13dBm.

## 3.8 Conducted Spurious Emission

### 3.8.1 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 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

### 3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
=  $P(W) - [43 + 10\log(P)]$  (dB)  
=  $[30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
= -13dBm.

### 3.9 Frequency Stability

#### 3.9.1 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.

#### 3.9.2 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  steps 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.

#### 3.9.3 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at  $25\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

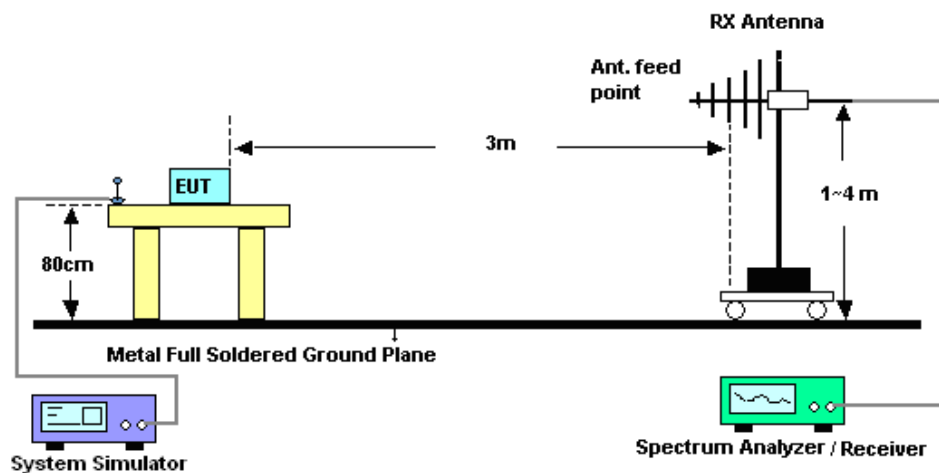
## 4 Radiated Test Items

### 4.1 Measuring Instruments

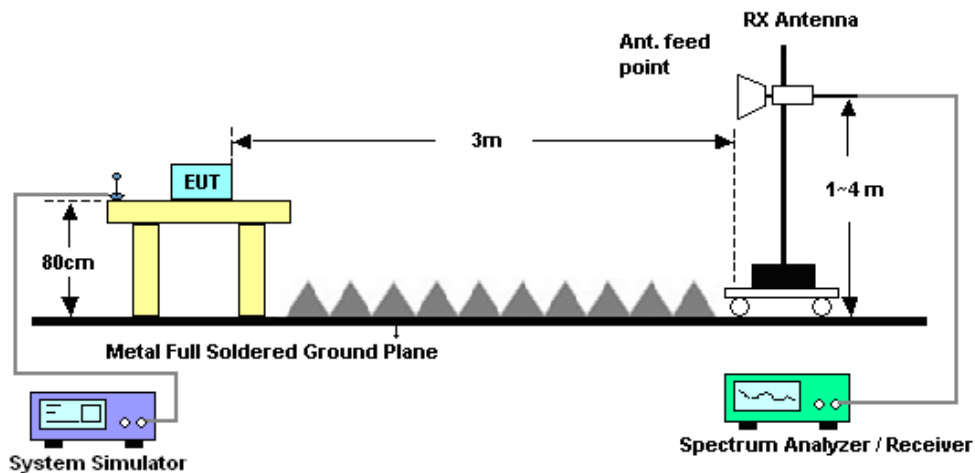
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

## 4.4 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

### 4.4.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

### 4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-C-2004 Section 2.2.17.
2. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by the 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  $ERP = EIRP - 2.15$ . Take the record of the output power at substitution antenna.



|              | GSM/GPRS/EDGE | WCDMA/HSPA |
|--------------|---------------|------------|
| SPAN         | 500kHz        | 10MHz      |
| RBW          | 10kHz         | 100kHz     |
| VBW          | 30kHz         | 300kHz     |
| Detector     | RMS           | RMS        |
| Trace        | Average       | Average    |
| Average Type | Power         | Power      |
| Sweep Count  | 100           | 100        |

## 4.5 Field Strength of Spurious Radiation Measurement

### 4.5.1 Description of Field Strength of Spurious Radiated Measurement

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.

### 4.5.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12.  $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$



## 5 List of Measuring Equipment

| Instrument          | Manufacturer    | Model No.           | Serial No.                          | Characteristics               | Calibration Date | Test Date                     | Due Date      | Remark                |
|---------------------|-----------------|---------------------|-------------------------------------|-------------------------------|------------------|-------------------------------|---------------|-----------------------|
| Spectrum Analyzer   | Rohde & Schwarz | FSP30               | 101329                              | 9kHz~30GHz                    | Jun. 24, 2015    | Jul. 23, 2015                 | Jun. 23, 2016 | Conducted (TH03-HY)   |
| Hygrometer          | Testo           | 608-H1              | 34893241                            | N/A                           | May 04, 2015     | Jul. 23, 2015                 | May 03, 2016  | Conduction (TH03-HY)  |
| Temperature Chamber | ESPEC           | SU-641              | 92013721                            | -30 ~70 degree                | Dec. 01, 2014    | Jul. 23, 2015                 | Nov. 30, 2015 | Conducted (TH03-HY)   |
| RF cable            | WOKEN           | S05                 | S05-130708-22                       | N/A                           | Jan. 21, 2015    | Jul. 23, 2015                 | Jan. 20, 2016 | Conducted (TH03-HY)   |
| Preamplifier        | MITEQ           | JS44-18004000-33-8P | 1840917                             | 18GHz ~ 40GHz                 | Jun. 02, 2015    | Aug. 06, 2015 ~ Aug. 18, 2015 | Jun. 01, 2016 | Radiation (03CH10-HY) |
| Horn Antenna        | SCHWARZBECK     | BBHA 9170           | BBHA9170584                         | 18GHz- 40GHz                  | Nov. 03, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Nov. 02, 2015 | Radiation (03CH10-HY) |
| Amplifier           | SONOMA          | 310N                | 187311                              | 9kHz~1GHz                     | Nov. 24, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Nov. 23, 2015 | Radiation (03CH10-HY) |
| Bilog Antenna       | TESEQ           | CBL 6111D           | 35413                               | 30MHz~1GHz                    | Oct. 24, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Oct. 23, 2015 | Radiation (03CH10-HY) |
| EMI Test Receiver   | Keysight        | N9038A              | MY54130085                          | 20Hz ~ 8.4GHz                 | Nov. 05, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Nov. 04, 2015 | Radiation (03CH10-HY) |
| Horn Antenna        | SCHWARZBECK     | BBHA 9120 D         | 9120D-1325                          | 1GHz ~ 18GHz                  | Oct. 03, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Oct. 02, 2015 | Radiation (03CH10-HY) |
| Preamplifier        | Keysight        | 83017A              | MY53270078                          | 1GHz~26.5GHz                  | Nov. 20, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Nov. 19, 2015 | Radiation (03CH10-HY) |
| Spectrum Analyzer   | Keysight        | N9010A              | MY54200485                          | 10Hz ~ 44GHZ                  | Oct. 14, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Oct. 13, 2015 | Radiation (03CH10-HY) |
| Controller          | EMEC            | EM 1000             | N/A                                 | Control Turn table & Ant Mast | N/A              | Aug. 06, 2015 ~ Aug. 18, 2015 | N/A           | Radiation (03CH10-HY) |
| Antenna Mast        | EMEC            | AM-BS-4500-B        | N/A                                 | 1~4m                          | N/A              | Aug. 06, 2015 ~ Aug. 18, 2015 | N/A           | Radiation (03CH10-HY) |
| Turn Table          | EMEC            | TT 2200             | N/A                                 | 0-360 degree                  | N/A              | Aug. 06, 2015 ~ Aug. 18, 2015 | N/A           | Radiation (03CH10-HY) |
| Hygrometer          | TECPEL          | DTM-303B            | TP140320                            | N/A                           | Nov. 17, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Nov. 16, 2015 | Radiation (03CH10-HY) |
| RF Cable            | HUBER + SUHNER  | SUCOFLEX 104        | MY24956/4<br>MY24952/4<br>MY28386/4 | 25GHz~40GHz                   | Nov. 06, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Nov. 05, 2015 | Radiation (03CH10-HY) |
| RF Cable            | HUBER + SUHNER  | SUCOFLEX 104        | MY24956/4<br>MY24952/4<br>MY28386/4 | 30MHz~1GHz                    | Nov. 06, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Nov. 05, 2015 | Radiation (03CH10-HY) |
| RF Cable            | HUBER + SUHNER  | SUCOFLEX 104        | MY249564<br>MY249524<br>MY283864    | 1GHz~25GHz                    | Nov. 06, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Nov. 05, 2015 | Radiation (03CH10-HY) |
| Test Software       | N/A             | E3                  | 6.2009-8-24                         | N/A                           | N/A              | Aug. 06, 2015 ~ Aug. 18, 2015 | N/A           | Radiation (03CH10-HY) |



| Instrument   | Manufacturer | Model No.             | Serial No. | Characteristics | Calibration Date | Test Date                     | Due Date      | Remark                |
|--------------|--------------|-----------------------|------------|-----------------|------------------|-------------------------------|---------------|-----------------------|
| Filter       | Wainwright   | WLKS1200-8 SS         | SN3        | 1.2G Low Pass   | Oct. 01, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Sep. 30, 2015 | Radiation (03CH10-HY) |
| Filter       | Wainwright   | WHK1.5/15G-10SS       | SN32       | 1.5G High Pass  | Oct. 01, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Sep. 30, 2015 | Radiation (03CH10-HY) |
| Filter       | Microwave    | H3G018G1              | SN477220   | 3.0G High Pass  | Oct. 01, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Sep. 30, 2015 | Radiation (03CH10-HY) |
| Notch Filter | Wainwright   | WRCG824/84 9-40/8SS   | SN35       | CDMA 850        | Oct. 01, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Sep. 30, 2015 | Radiation (03CH10-HY) |
| Notch Filter | Wainwright   | WRCT1850/1 910-40/8SS | SN21       | 1900            | Oct. 01, 2014    | Aug. 06, 2015 ~ Aug. 18, 2015 | Sep. 30, 2015 | Radiation (03CH10-HY) |



## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.9 |
|-------------------------------------------------------------------------|-----|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| Conducted Power (*Unit: dBm) |        |       |       |         |        |        |
|------------------------------|--------|-------|-------|---------|--------|--------|
| Band                         | GSM850 |       |       | GSM1900 |        |        |
| Channel                      | 128    | 189   | 251   | 512     | 661    | 810    |
| Frequency                    | 824.2  | 836.4 | 848.8 | 1850.2  | 1880.0 | 1909.8 |
| GSM                          | 31.52  | 31.53 | 31.56 | 28.21   | 28.28  | 28.19  |
| GPRS class 8                 | 31.60  | 31.59 | 31.61 | 28.24   | 28.30  | 28.27  |
| GPRS class 10                | 30.07  | 30.07 | 29.99 | 24.97   | 25.06  | 25.09  |
| GPRS class 11                | 28.01  | 28.00 | 28.02 | 23.02   | 23.11  | 23.04  |
| GPRS class 12                | 26.73  | 26.69 | 26.61 | 21.51   | 21.57  | 21.51  |
| EGPRS class 8                | 27.32  | 27.26 | 27.20 | 26.23   | 26.32  | 26.24  |
| EGPRS class 10               | 25.99  | 25.95 | 25.89 | 24.82   | 24.89  | 24.83  |
| EGPRS class 11               | 24.23  | 24.12 | 24.13 | 22.79   | 22.84  | 22.79  |
| EGPRS class 12               | 23.36  | 23.27 | 23.22 | 20.20   | 20.25  | 20.26  |

| Conducted Power (*Unit: dBm) |              |       |       |               |       |        |
|------------------------------|--------------|-------|-------|---------------|-------|--------|
| Band                         | WCDMA Band V |       |       | WCDMA Band II |       |        |
| Channel                      | 4132         | 4182  | 4233  | 9262          | 9400  | 9538   |
| Frequency                    | 826.4        | 836.4 | 846.6 | 1852.4        | 1880  | 1907.6 |
| RMC 12.2K                    | 24.21        | 24.30 | 24.32 | 20.95         | 21.07 | 21.03  |
| HSDPA Subtest-1              | 22.71        | 22.78 | 22.79 | 19.97         | 20.10 | 20.05  |
| HSDPA Subtest-2              | 22.73        | 22.83 | 22.84 | 20.01         | 20.13 | 20.09  |
| HSDPA Subtest-3              | 22.21        | 22.30 | 22.30 | 19.45         | 19.59 | 19.54  |
| HSDPA Subtest-4              | 22.21        | 22.29 | 22.28 | 19.44         | 19.55 | 19.54  |
| HSUPA Subtest-1              | 21.40        | 21.52 | 21.52 | 18.29         | 18.39 | 18.32  |
| HSUPA Subtest-2              | 21.70        | 21.78 | 21.77 | 18.68         | 18.80 | 18.72  |
| HSUPA Subtest-3              | 21.08        | 21.17 | 21.16 | 18.95         | 19.08 | 19.02  |
| HSUPA Subtest-4              | 21.97        | 22.08 | 22.07 | 18.97         | 19.08 | 19.03  |
| HSUPA Subtest-5              | 22.69        | 22.81 | 22.78 | 19.94         | 20.07 | 20.01  |



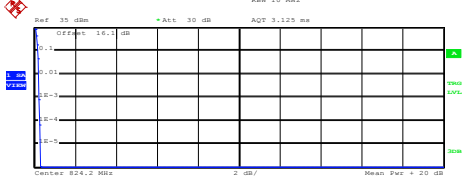
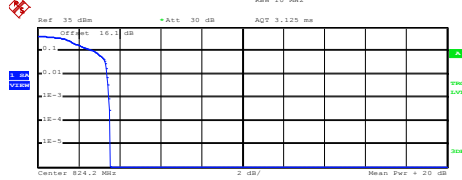
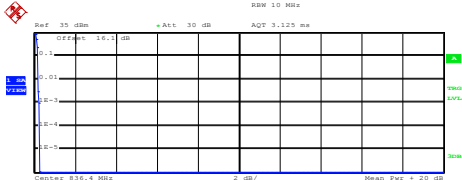
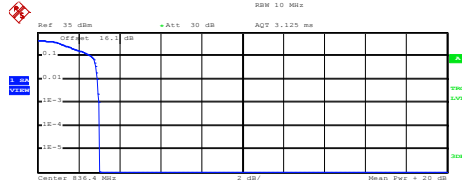
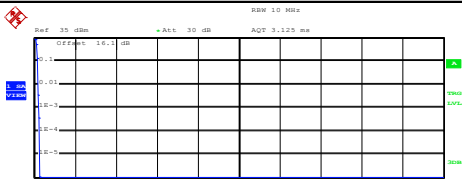
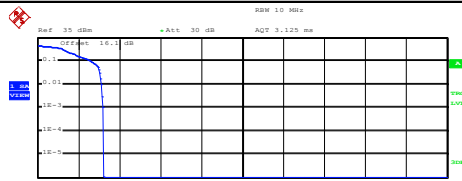
## A1. GSM

### Peak-to-Average Ratio

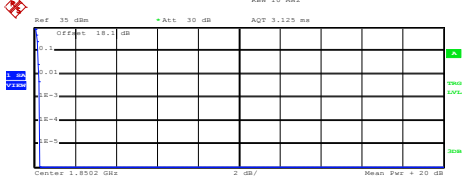
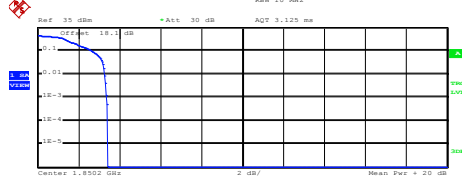
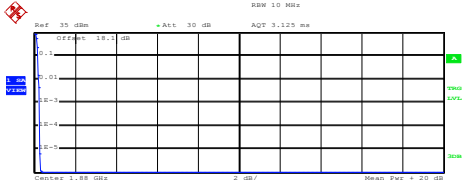
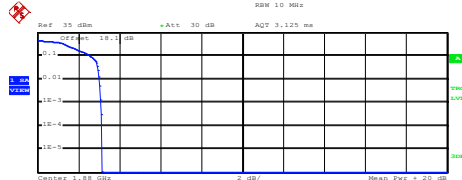
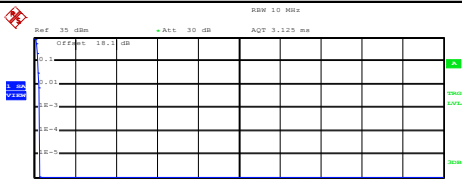
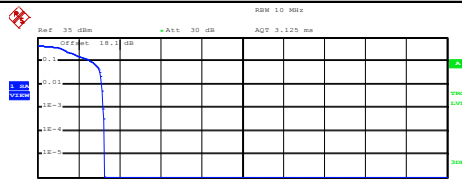
| Mode       | GSM850       |              | Limit: 13dB |
|------------|--------------|--------------|-------------|
| Mod.       | GPRS class 8 | EDGE class 8 | Result      |
| Lowest CH  | 0.24         | 3.48         | PASS        |
| Middle CH  | 0.24         | 3.00         |             |
| Highest CH | 0.24         | 3.20         |             |

| Mode       | GSM1900      |              | Limit: 13dB |
|------------|--------------|--------------|-------------|
| Mod.       | GPRS class 8 | EDGE class 8 | Result      |
| Lowest CH  | 0.28         | 3.36         | PASS        |
| Middle CH  | 0.28         | 3.08         |             |
| Highest CH | 0.28         | 3.20         |             |



| GSM850 (GPRS class 8)                                                                                                                                                                                                                                                                                                  |  | GSM850 (EDGE class 8)                                                                                                                                                                                                                                                                                                   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Lowest Channel                                                                                                                                                                                                                                                                                                         |  | Lowest Channel                                                                                                                                                                                                                                                                                                          |  |
|  <p>Ref: 35 dBm Att: 30 dB AGT: 3.125 ms</p> <p>Center: 824.2 MHz 2 dB/ Mean: 29.61 dBm Peak: 29.89 dBm Crest: 0.28 dB</p> <p>10 % 0.20 dB<br/>1 % 0.24 dB<br/>.1 % 0.24 dB<br/>.01 % 0.28 dB</p> <p>Date: 23.JUL.2015 10:00:07</p>   |  |  <p>Ref: 35 dBm Att: 30 dB AGT: 3.125 ms</p> <p>Center: 824.2 MHz 2 dB/ Mean: 25.30 dBm Peak: 28.83 dBm Crest: 3.53 dB</p> <p>10 % 2.76 dB<br/>1 % 3.40 dB<br/>.1 % 3.48 dB<br/>.01 % 3.56 dB</p> <p>Date: 23.JUL.2015 10:10:13</p>   |  |
| Middle Channel                                                                                                                                                                                                                                                                                                         |  | Middle Channel                                                                                                                                                                                                                                                                                                          |  |
|  <p>Ref: 35 dBm Att: 30 dB AGT: 3.125 ms</p> <p>Center: 836.4 MHz 2 dB/ Mean: 29.92 dBm Peak: 30.17 dBm Crest: 0.26 dB</p> <p>10 % 0.20 dB<br/>1 % 0.20 dB<br/>.1 % 0.24 dB<br/>.01 % 0.28 dB</p> <p>Date: 23.JUL.2015 10:00:18</p>  |  |  <p>Ref: 35 dBm Att: 30 dB AGT: 3.125 ms</p> <p>Center: 836.4 MHz 2 dB/ Mean: 26.09 dBm Peak: 29.12 dBm Crest: 3.02 dB</p> <p>10 % 2.60 dB<br/>1 % 2.92 dB<br/>.1 % 3.00 dB<br/>.01 % 3.04 dB</p> <p>Date: 23.JUL.2015 10:10:24</p>  |  |
| Highest Channel                                                                                                                                                                                                                                                                                                        |  | Highest Channel                                                                                                                                                                                                                                                                                                         |  |
|  <p>Ref: 35 dBm Att: 30 dB AGT: 3.125 ms</p> <p>Center: 848.8 MHz 2 dB/ Mean: 29.93 dBm Peak: 30.17 dBm Crest: 0.24 dB</p> <p>10 % 0.16 dB<br/>1 % 0.20 dB<br/>.1 % 0.24 dB<br/>.01 % 0.28 dB</p> <p>Date: 23.JUL.2015 10:00:28</p> |  |  <p>Ref: 35 dBm Att: 30 dB AGT: 3.125 ms</p> <p>Center: 848.8 MHz 2 dB/ Mean: 25.90 dBm Peak: 29.12 dBm Crest: 3.22 dB</p> <p>10 % 2.64 dB<br/>1 % 3.12 dB<br/>.1 % 3.20 dB<br/>.01 % 3.24 dB</p> <p>Date: 23.JUL.2015 10:10:35</p> |  |

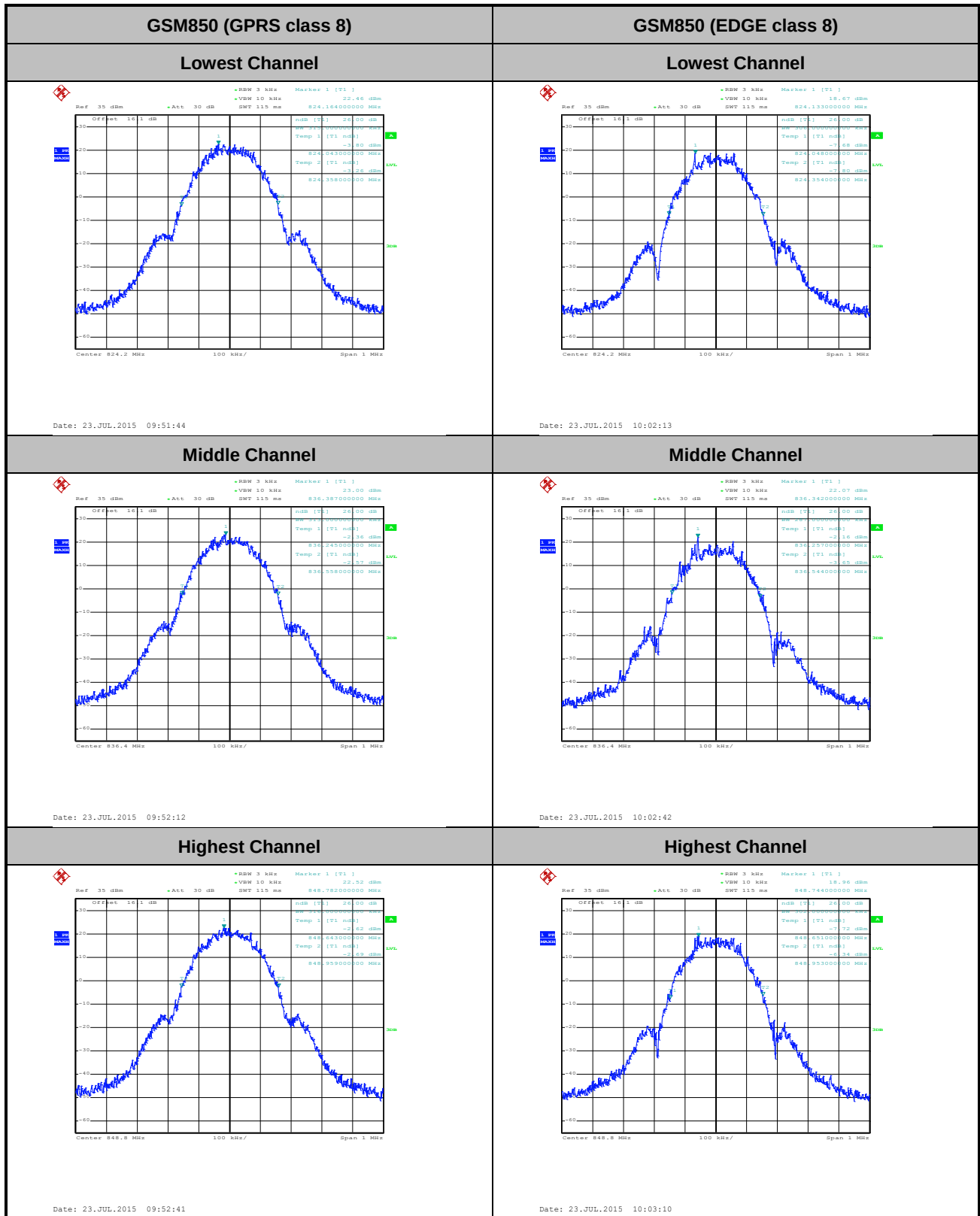


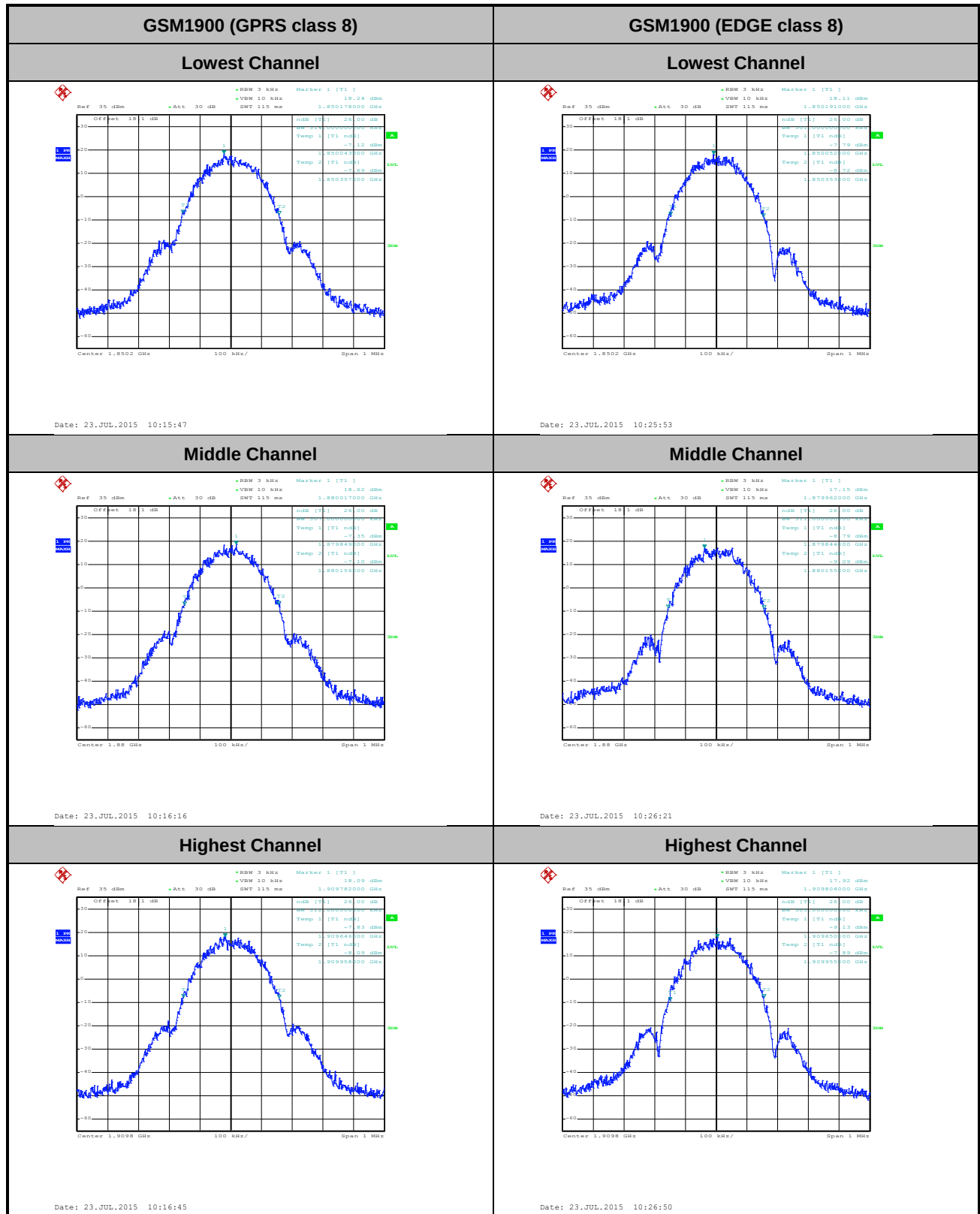
| GSM1900 (GPRS class 8)                                                                                                                                                                                                                                                                                                                                       |  | GSM1900 (EDGE class 8)                                                                                                                                                                                                                                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                               |  | Lowest Channel                                                                                                                                                                                                                                                                                                                                                |  |
|  <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 25.17 dBm</p> <p>Peak 25.45 dBm</p> <p>Crest 0.27 dB</p> <p>10 % 0.20 dB</p> <p>1 % 0.24 dB</p> <p>.1 % 0.28 dB</p> <p>.01 % 0.28 dB</p> <p>Date: 23.JUL.2015 10:24:17</p>   |  |  <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 24.84 dBm</p> <p>Peak 28.27 dBm</p> <p>Crest 3.43 dB</p> <p>10 % 2.68 dB</p> <p>1 % 3.28 dB</p> <p>.1 % 3.36 dB</p> <p>.01 % 3.44 dB</p> <p>Date: 23.JUL.2015 10:34:25</p>   |  |
| Middle Channel                                                                                                                                                                                                                                                                                                                                               |  | Middle Channel                                                                                                                                                                                                                                                                                                                                                |  |
|  <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 25.05 dBm</p> <p>Peak 25.38 dBm</p> <p>Crest 0.33 dB</p> <p>10 % 0.20 dB</p> <p>1 % 0.24 dB</p> <p>.1 % 0.28 dB</p> <p>.01 % 0.28 dB</p> <p>Date: 23.JUL.2015 10:24:28</p>  |  |  <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 24.69 dBm</p> <p>Peak 27.85 dBm</p> <p>Crest 3.15 dB</p> <p>10 % 2.60 dB</p> <p>1 % 3.00 dB</p> <p>.1 % 3.08 dB</p> <p>.01 % 3.16 dB</p> <p>Date: 23.JUL.2015 10:34:37</p>  |  |
| Highest Channel                                                                                                                                                                                                                                                                                                                                              |  | Highest Channel                                                                                                                                                                                                                                                                                                                                               |  |
|  <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 25.05 dBm</p> <p>Peak 25.31 dBm</p> <p>Crest 0.25 dB</p> <p>10 % 0.20 dB</p> <p>1 % 0.24 dB</p> <p>.1 % 0.28 dB</p> <p>.01 % 0.28 dB</p> <p>Date: 23.JUL.2015 10:24:41</p> |  |  <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 24.73 dBm</p> <p>Peak 27.99 dBm</p> <p>Crest 3.26 dB</p> <p>10 % 2.60 dB</p> <p>1 % 3.12 dB</p> <p>.1 % 3.20 dB</p> <p>.01 % 3.28 dB</p> <p>Date: 23.JUL.2015 10:34:52</p> |  |

**26dB Bandwidth**

| Mode       | GSM850       |              |
|------------|--------------|--------------|
| Mod.       | GPRS class 8 | EDGE class 8 |
| Lowest CH  | 0.32         | 0.31         |
| Middle CH  | 0.31         | 0.29         |
| Highest CH | 0.32         | 0.30         |

| Mode       | GSM1900      |              |
|------------|--------------|--------------|
| Mod.       | GPRS class 8 | EDGE class 8 |
| Lowest CH  | 0.31         | 0.30         |
| Middle CH  | 0.31         | 0.31         |
| Highest CH | 0.31         | 0.31         |

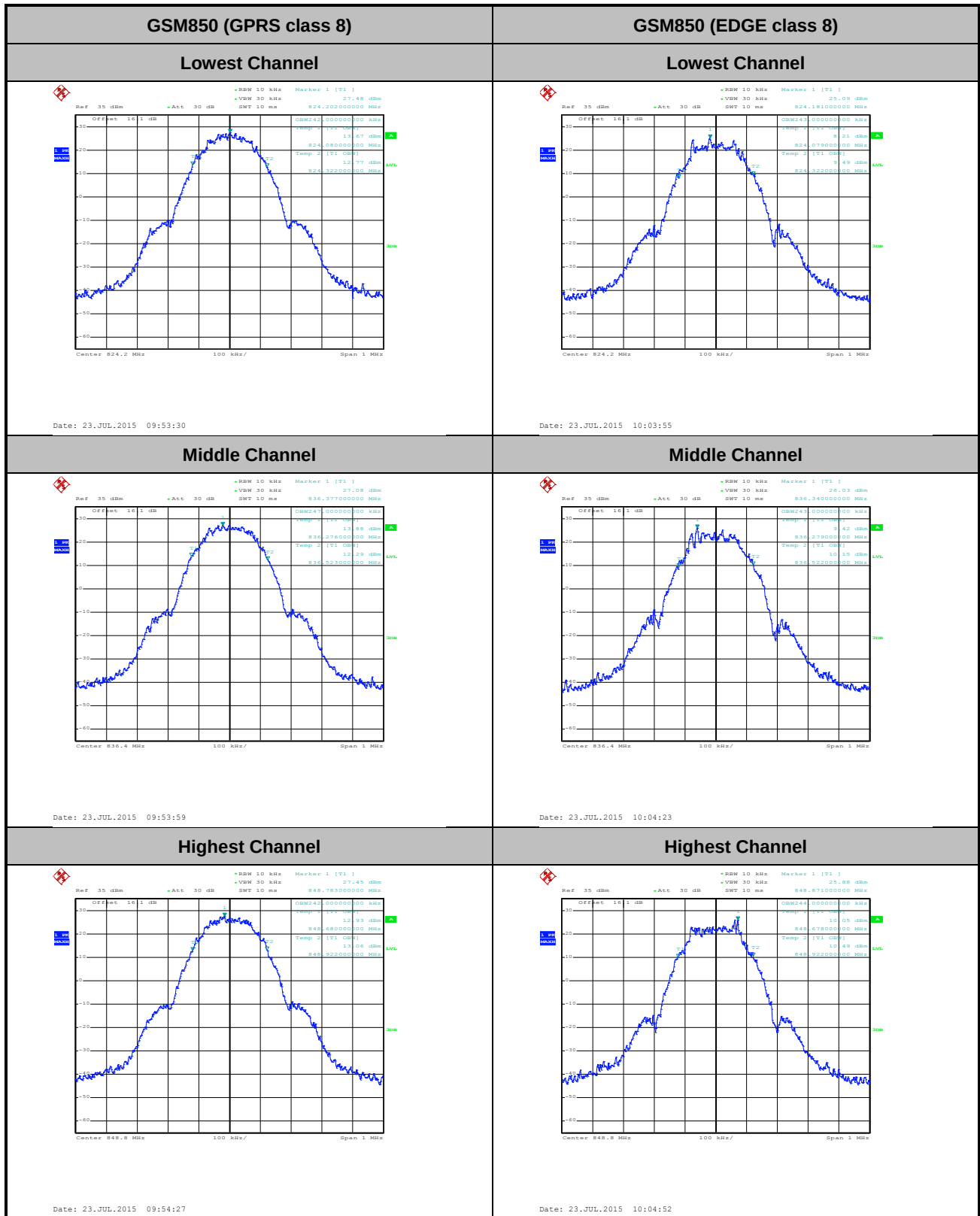


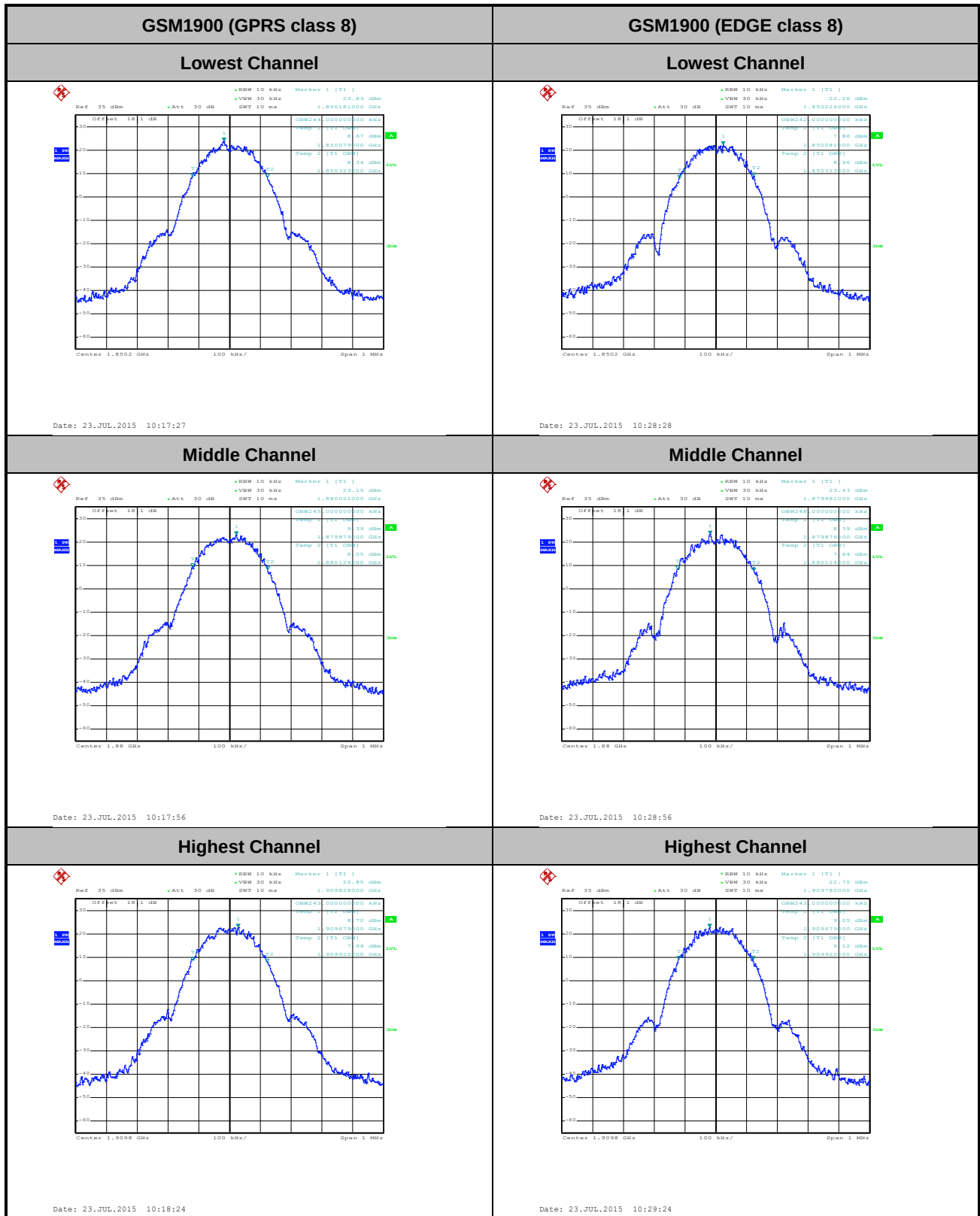


**Occupied Bandwidth**

| Mode       | GSM850       |              |
|------------|--------------|--------------|
| Mod.       | GPRS class 8 | EDGE class 8 |
| Lowest CH  | 0.24         | 0.24         |
| Middle CH  | 0.25         | 0.24         |
| Highest CH | 0.24         | 0.24         |

| Mode       | GSM1900      |              |
|------------|--------------|--------------|
| Mod.       | GPRS class 8 | EDGE class 8 |
| Lowest CH  | 0.24         | 0.24         |
| Middle CH  | 0.25         | 0.25         |
| Highest CH | 0.24         | 0.24         |



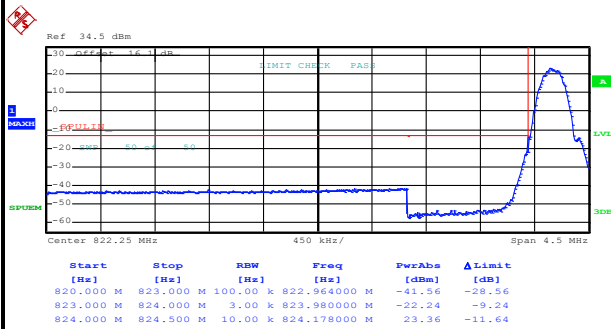




## Conducted Band Edge

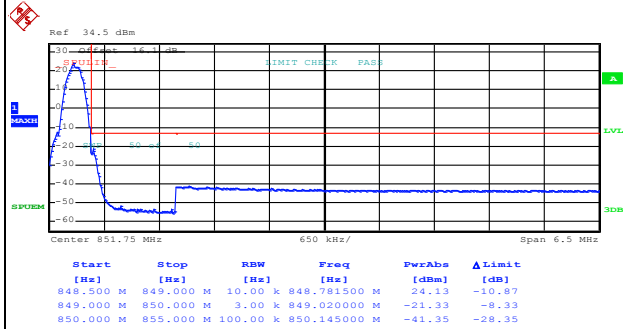
## GSM850 (GPRS class 8)

## Lowest Band Edge



Date: 23.JUL.2015 09:56:12

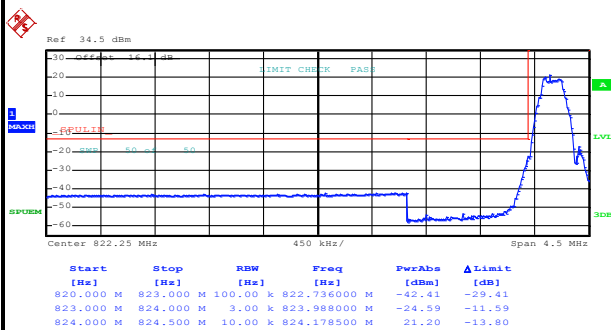
## Highest Band Edge



Date: 23.JUL.2015 09:57:39

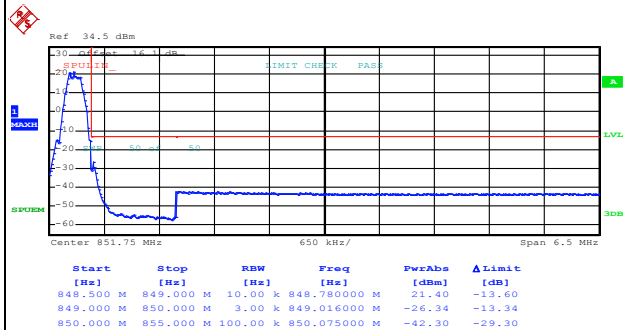
## GSM850 (EDGE class 8)

## Lowest Band Edge



Date: 23.JUL.2015 10:06:33

## Highest Band Edge

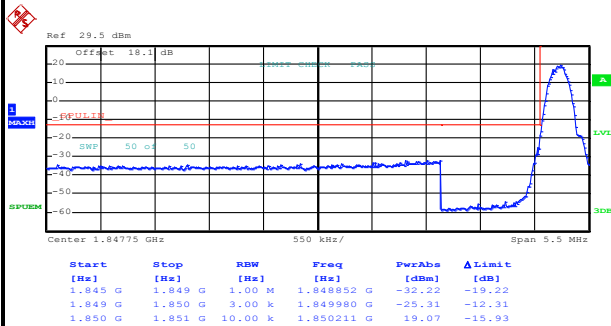


Date: 23.JUL.2015 10:08:00



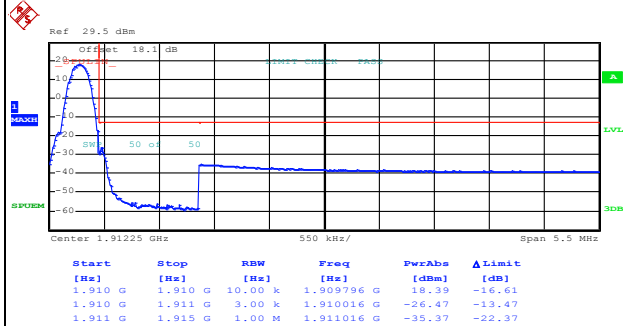
## GSM1900 (GPRS class 8)

## Lowest Band Edge



Date: 23.JUL.2015 10:20:30

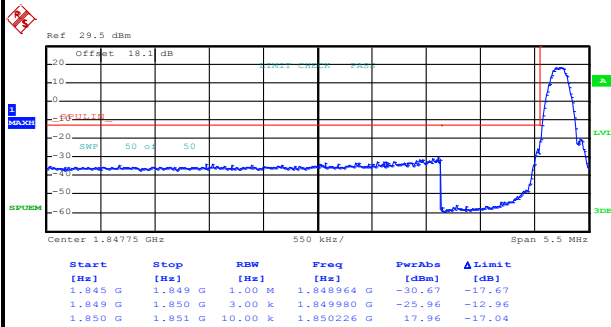
## Highest Band Edge



Date: 23.JUL.2015 10:21:57

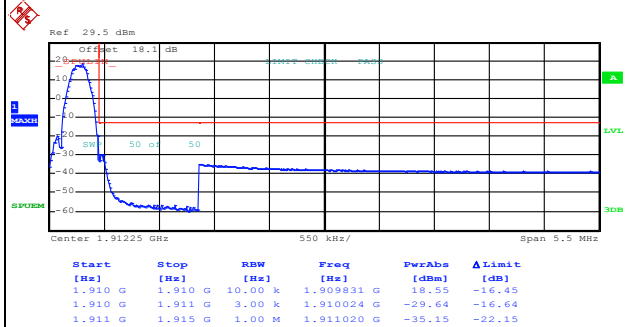
## GSM1900 (EDGE class 8)

## Lowest Band Edge



Date: 23.JUL.2015 10:31:01

## Highest Band Edge

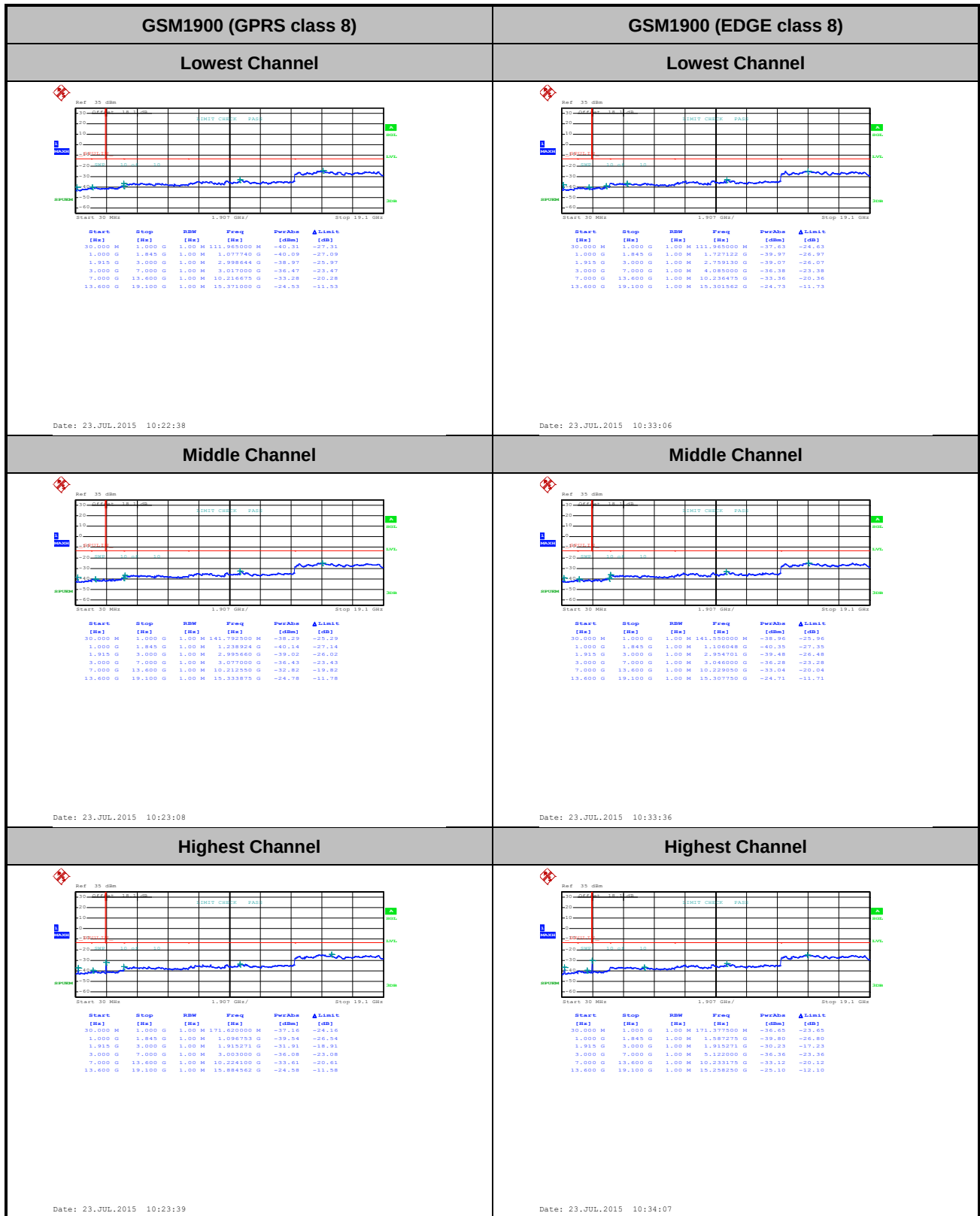


Date: 23.JUL.2015 10:32:28



## Conducted Spurious Emission

| GSM850 (GPRS class 8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GSM850 (EDGE class 8) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lowest Channel        |
| <div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>&lt;/</div></div></div></div></div></div> |                       |



**Frequency Stability**

| Test Conditions  | Middle Channel    | GSM850<br>(GPRS class 8) | GSM850<br>(EDGE class 8) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------|--------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)          |                          | Result          |
| 50               | Normal Voltage    | 0.0012                   | 0.0012                   | PASS            |
| 40               | Normal Voltage    | 0.0036                   | 0.0036                   |                 |
| 30               | Normal Voltage    | 0.0024                   | 0.0012                   |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                   | 0.0000                   |                 |
| 10               | Normal Voltage    | 0.0084                   | 0.0036                   |                 |
| 0                | Normal Voltage    | 0.0060                   | 0.0024                   |                 |
| -10              | Normal Voltage    | 0.0024                   | 0.0048                   |                 |
| -20              | Normal Voltage    | 0.0084                   | 0.0036                   |                 |
| -30              | Normal Voltage    | 0.0060                   | 0.0012                   |                 |
| 20               | Maximum Voltage   | 0.0096                   | 0.0024                   |                 |
| 20               | Normal Voltage    | 0.0048                   | 0.0060                   |                 |
| 20               | Battery End Point | 0.0012                   | 0.0048                   |                 |

| Test Conditions  | Middle Channel    | GSM1900<br>(GPRS class 8) | GSM1900<br>(EDGE class 8) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------|---------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)           |                           | Result           |
| 50               | Normal Voltage    | 0.0064                    | 0.0112                    | PASS             |
| 40               | Normal Voltage    | 0.0080                    | 0.0138                    |                  |
| 30               | Normal Voltage    | 0.0048                    | 0.0144                    |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                    | 0.0000                    |                  |
| 10               | Normal Voltage    | 0.0016                    | 0.0101                    |                  |
| 0                | Normal Voltage    | 0.0005                    | 0.0064                    |                  |
| -10              | Normal Voltage    | 0.0032                    | 0.0053                    |                  |
| -20              | Normal Voltage    | 0.0011                    | 0.0090                    |                  |
| -30              | Normal Voltage    | 0.0005                    | 0.0074                    |                  |
| 20               | Maximum Voltage   | 0.0021                    | 0.0048                    |                  |
| 20               | Normal Voltage    | 0.0000                    | 0.0069                    |                  |
| 20               | Battery End Point | 0.0011                    | 0.0096                    |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block.

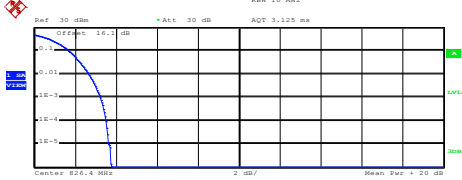
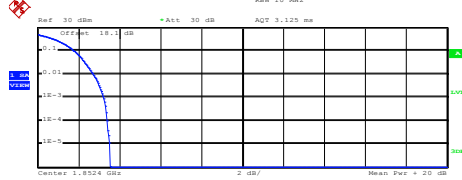
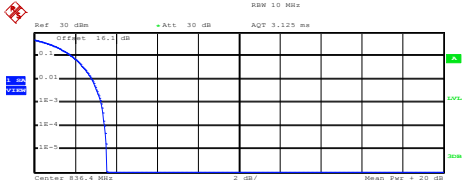
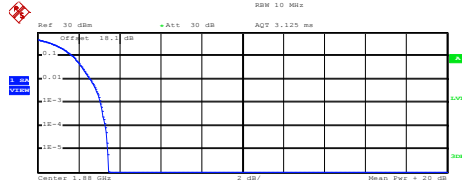
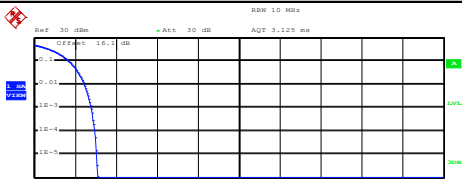
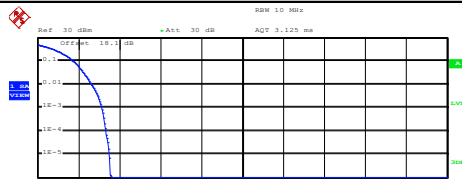


## A2. WCDMA

### Peak-to-Average Ratio

| Mode       | WCDMA Band V | WCDMA Band II | Limit: 13dB |
|------------|--------------|---------------|-------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  | Result      |
| Lowest CH  | 3.24         | 3.24          | PASS        |
| Middle CH  | 3.28         | 3.08          |             |
| Highest CH | 2.80         | 3.16          |             |

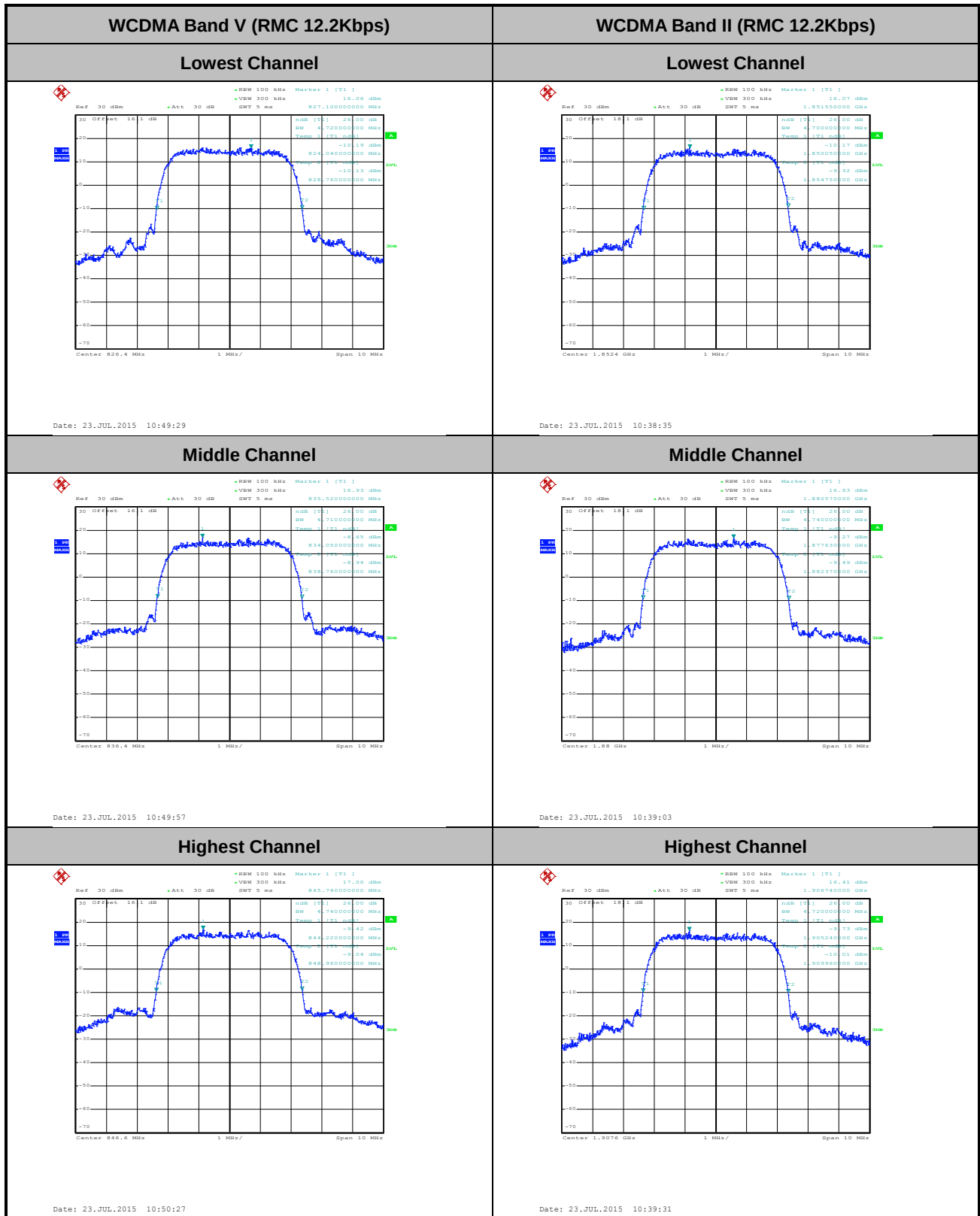


| WCDMA Band V (RMC 12.2Kbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WCDMA Band II (RMC 12.2Kbps) |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------|-----|---------|------|---------|-------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|-----|---------|------|---------|-------|---------|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lowest Channel               |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
|  <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms<br/>Center: 826.4 MHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1<br/>Mean: 20.92 dBm<br/>Peak: 24.68 dBm<br/>Crest: 3.76 dB</p> <table><tr><td>10 %</td><td>1.72 dB</td></tr><tr><td>1 %</td><td>2.68 dB</td></tr><tr><td>.1 %</td><td>3.24 dB</td></tr><tr><td>.01 %</td><td>3.52 dB</td></tr></table> <p>Date: 23.JUL.2015 10:58:54</p>   | 10 %                         | 1.72 dB | 1 % | 2.68 dB | .1 % | 3.24 dB | .01 % | 3.52 dB |  <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms<br/>Center: 1.8524 GHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1<br/>Mean: 20.14 dBm<br/>Peak: 23.69 dBm<br/>Crest: 3.55 dB</p> <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.72 dB</td></tr><tr><td>.1 %</td><td>3.24 dB</td></tr><tr><td>.01 %</td><td>3.40 dB</td></tr></table> <p>Date: 23.JUL.2015 10:46:18</p>   | 10 % | 1.80 dB | 1 % | 2.72 dB | .1 % | 3.24 dB | .01 % | 3.40 dB |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.72 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.68 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.24 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.52 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.80 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.72 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.24 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.40 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| Middle Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Middle Channel               |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
|  <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms<br/>Center: 830.4 MHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1<br/>Mean: 20.86 dBm<br/>Peak: 24.40 dBm<br/>Crest: 3.53 dB</p> <table><tr><td>10 %</td><td>1.84 dB</td></tr><tr><td>1 %</td><td>2.84 dB</td></tr><tr><td>.1 %</td><td>3.28 dB</td></tr><tr><td>.01 %</td><td>3.44 dB</td></tr></table> <p>Date: 23.JUL.2015 10:59:04</p>  | 10 %                         | 1.84 dB | 1 % | 2.84 dB | .1 % | 3.28 dB | .01 % | 3.44 dB |  <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms<br/>Center: 1.85 GHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1<br/>Mean: 20.78 dBm<br/>Peak: 24.26 dBm<br/>Crest: 3.48 dB</p> <table><tr><td>10 %</td><td>1.72 dB</td></tr><tr><td>1 %</td><td>2.56 dB</td></tr><tr><td>.1 %</td><td>3.08 dB</td></tr><tr><td>.01 %</td><td>3.32 dB</td></tr></table> <p>Date: 23.JUL.2015 10:46:26</p>    | 10 % | 1.72 dB | 1 % | 2.56 dB | .1 % | 3.08 dB | .01 % | 3.32 dB |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.84 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.84 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.28 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.44 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.72 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.56 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.08 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.32 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| Highest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Highest Channel              |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
|  <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms<br/>Center: 846.6 MHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1<br/>Mean: 20.89 dBm<br/>Peak: 23.97 dBm<br/>Crest: 3.09 dB</p> <table><tr><td>10 %</td><td>1.68 dB</td></tr><tr><td>1 %</td><td>2.44 dB</td></tr><tr><td>.1 %</td><td>2.80 dB</td></tr><tr><td>.01 %</td><td>2.96 dB</td></tr></table> <p>Date: 23.JUL.2015 10:59:14</p> | 10 %                         | 1.68 dB | 1 % | 2.44 dB | .1 % | 2.80 dB | .01 % | 2.96 dB |  <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms<br/>Center: 1.9076 GHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1<br/>Mean: 20.34 dBm<br/>Peak: 23.90 dBm<br/>Crest: 3.56 dB</p> <table><tr><td>10 %</td><td>1.76 dB</td></tr><tr><td>1 %</td><td>2.64 dB</td></tr><tr><td>.1 %</td><td>3.16 dB</td></tr><tr><td>.01 %</td><td>3.32 dB</td></tr></table> <p>Date: 23.JUL.2015 10:46:36</p> | 10 % | 1.76 dB | 1 % | 2.64 dB | .1 % | 3.16 dB | .01 % | 3.32 dB |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.68 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.44 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.80 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.96 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.76 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.64 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.16 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.32 dB                      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |         |     |         |      |         |       |         |



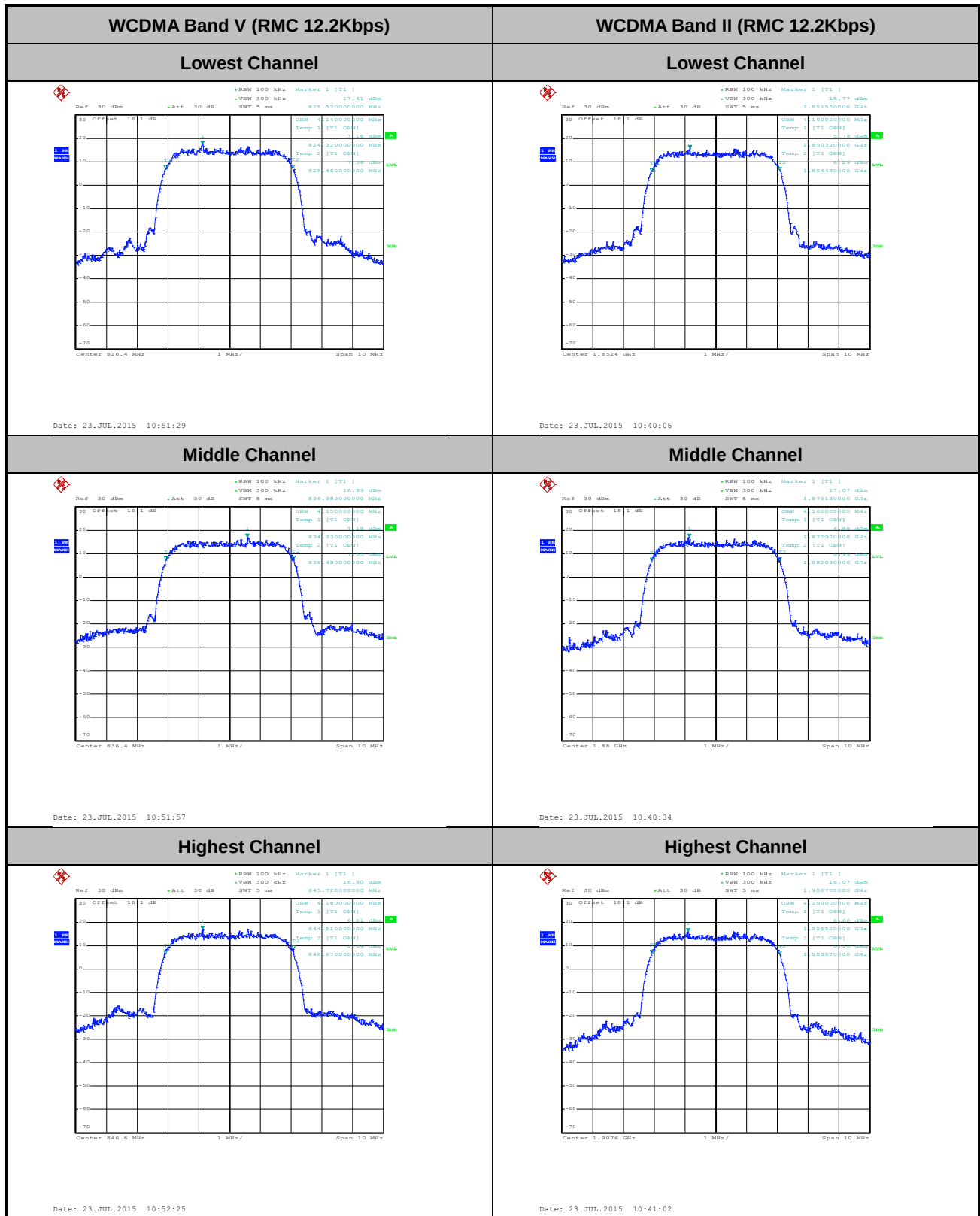
**26dB Bandwidth**

| Mode       | WCDMA Band V | WCDMA Band II |
|------------|--------------|---------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  |
| Lowest CH  | 4.72         | 4.70          |
| Middle CH  | 4.71         | 4.74          |
| Highest CH | 4.74         | 4.72          |



**Occupied Bandwidth**

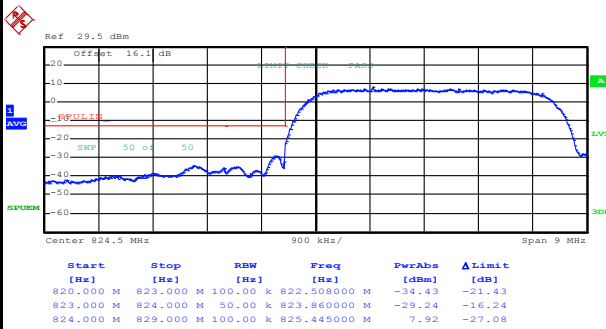
| Mode       | WCDMA Band V | WCDMA Band II |
|------------|--------------|---------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  |
| Lowest CH  | 4.14         | 4.16          |
| Middle CH  | 4.15         | 4.16          |
| Highest CH | 4.16         | 4.15          |



## Conducted Band Edge

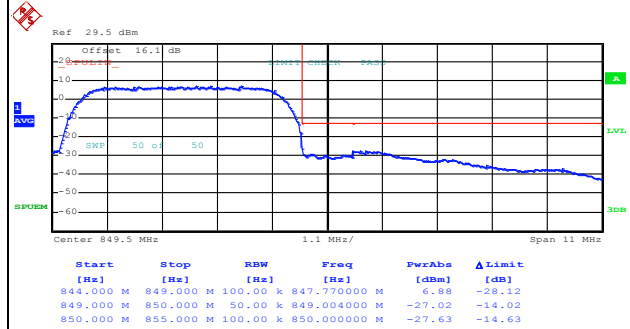
**WCDMA Band V (RMC 12.2Kbps)**

### Lowest Band Edge



Date: 23.JUL.2015 10:54:28

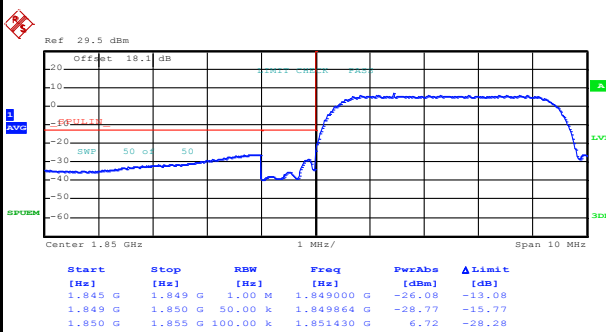
### Highest Band Edge



Date: 23.JUL.2015 10:55:55

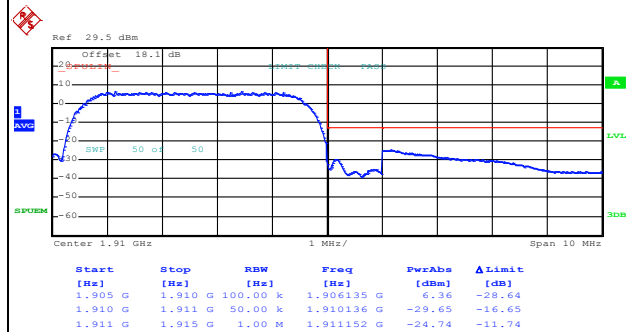
**WCDMA Band II (RMC 12.2Kbps)**

### Lowest Band Edge



Date: 23.JUL.2015 10:42:33

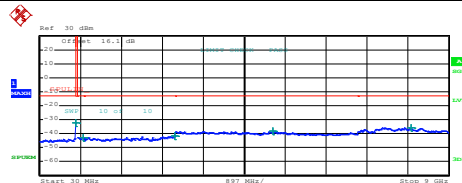
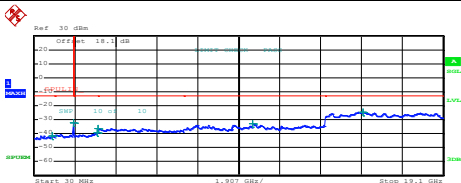
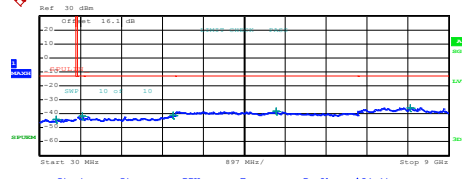
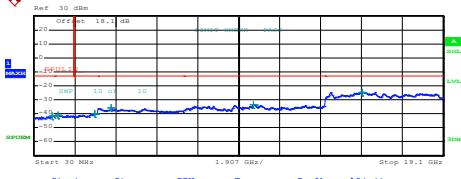
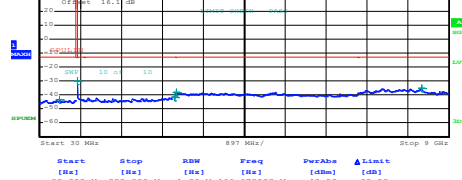
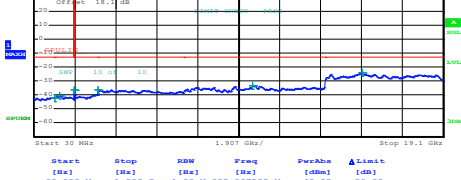
### Highest Band Edge



Date: 23.JUL.2015 10:44:00



## Conducted Spurious Emission

| WCDMA Band V (RMC 12.2Kbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WCDMA Band II (RMC 12.2Kbps) |        |              |        |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------|--------------|--------|--------|--------|------|------|------|------|-------|------|----------|-----------|--------|--------------|--------|--------|-----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-----|------|--------|--------|------|------|------|------|-------|------|----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|----------|--------|-------------|--------|--------|----------|----------|--------|-------------|--------|--------|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lowest Channel               |        |              |        |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
|  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>819,000000 M</td><td>-32.44</td><td>-19.44</td></tr><tr><td>850,000 M</td><td>1,000 G</td><td>1,00 M</td><td>981,113759 M</td><td>-42.52</td><td>-29.52</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>2,989000 G</td><td>-41.89</td><td>-28.89</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>5,148000 G</td><td>-38.36</td><td>-25.36</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>8,176000 G</td><td>-35.80</td><td>-22.80</td></tr></table> <p>Date: 23.JUL.2015 10:56:59</p>   | Start                        | Stop   | RBW          | Freq   | PerAbs | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,00 M | 819,000000 M | -32.44 | -19.44 | 850,000 M | 1,000 G | 1,00 M | 981,113759 M | -42.52 | -29.52 | 1,000 G | 3,000 G | 1,00 M | 2,989000 G | -41.89 | -28.89 | 3,000 G | 7,000 G | 1,00 M | 5,148000 G | -38.36 | -25.36 | 7,000 G | 9,000 G | 1,00 M | 8,176000 G | -35.80 | -22.80 |  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>1,000 G</td><td>1,00 M</td><td>853,330000 M</td><td>-41.55</td><td>-28.55</td></tr><tr><td>1,000 G</td><td>1,845 G</td><td>1,00 M</td><td>1,844789 G</td><td>-32.15</td><td>-19.15</td></tr><tr><td>1,915 G</td><td>3,000 G</td><td>1,00 M</td><td>2,982296 G</td><td>-39.22</td><td>-26.22</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,022000 G</td><td>-36.27</td><td>-23.27</td></tr><tr><td>7,000 G</td><td>13,600 G</td><td>1,00 M</td><td>10,230700 G</td><td>-33.13</td><td>-20.13</td></tr><tr><td>13,600 G</td><td>19,100 G</td><td>1,00 M</td><td>15,373063 G</td><td>-24.69</td><td>-11.69</td></tr></table> <p>Date: 23.JUL.2015 10:44:48</p>   | Start | Stop | RBW | Freq | PerAbs | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 1,000 G | 1,00 M | 853,330000 M | -41.55 | -28.55 | 1,000 G | 1,845 G | 1,00 M | 1,844789 G | -32.15 | -19.15 | 1,915 G | 3,000 G | 1,00 M | 2,982296 G | -39.22 | -26.22 | 3,000 G | 7,000 G | 1,00 M | 3,022000 G | -36.27 | -23.27 | 7,000 G | 13,600 G | 1,00 M | 10,230700 G | -33.13 | -20.13 | 13,600 G | 19,100 G | 1,00 M | 15,373063 G | -24.69 | -11.69 |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop                         | RBW    | Freq         | PerAbs | ΔLimit |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]                         | [Hz]   | [Hz]         | [dBm]  | [dB]   |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 820,000 M                    | 1,00 M | 819,000000 M | -32.44 | -19.44 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 850,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 G                      | 1,00 M | 981,113759 M | -42.52 | -29.52 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G                      | 1,00 M | 2,989000 G   | -41.89 | -28.89 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G                      | 1,00 M | 5,148000 G   | -38.36 | -25.36 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,000 G                      | 1,00 M | 8,176000 G   | -35.80 | -22.80 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop                         | RBW    | Freq         | PerAbs | ΔLimit |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]                         | [Hz]   | [Hz]         | [dBm]  | [dB]   |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,000 G                      | 1,00 M | 853,330000 M | -41.55 | -28.55 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,845 G                      | 1,00 M | 1,844789 G   | -32.15 | -19.15 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1,915 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G                      | 1,00 M | 2,982296 G   | -39.22 | -26.22 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G                      | 1,00 M | 3,022000 G   | -36.27 | -23.27 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13,600 G                     | 1,00 M | 10,230700 G  | -33.13 | -20.13 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 13,600 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19,100 G                     | 1,00 M | 15,373063 G  | -24.69 | -11.69 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Middle Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Middle Channel               |        |              |        |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
|  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>383,130000 M</td><td>-44.03</td><td>-31.03</td></tr><tr><td>850,000 M</td><td>1,000 G</td><td>1,00 M</td><td>966,468758 M</td><td>-43.65</td><td>-28.65</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>2,946000 G</td><td>-40.79</td><td>-27.79</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>5,216000 G</td><td>-38.11</td><td>-25.11</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>8,160000 G</td><td>-35.67</td><td>-22.67</td></tr></table> <p>Date: 23.JUL.2015 10:57:29</p>  | Start                        | Stop   | RBW          | Freq   | PerAbs | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,00 M | 383,130000 M | -44.03 | -31.03 | 850,000 M | 1,000 G | 1,00 M | 966,468758 M | -43.65 | -28.65 | 1,000 G | 3,000 G | 1,00 M | 2,946000 G | -40.79 | -27.79 | 3,000 G | 7,000 G | 1,00 M | 5,216000 G | -38.11 | -25.11 | 7,000 G | 9,000 G | 1,00 M | 8,160000 G | -35.67 | -22.67 |  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>1,000 G</td><td>1,00 M</td><td>855,227000 M</td><td>-41.51</td><td>-28.51</td></tr><tr><td>1,000 G</td><td>1,845 G</td><td>1,00 M</td><td>1,149776 G</td><td>-40.92</td><td>-27.92</td></tr><tr><td>1,915 G</td><td>3,000 G</td><td>1,00 M</td><td>2,836436 G</td><td>-39.63</td><td>-26.63</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,604000 G</td><td>-36.07</td><td>-23.07</td></tr><tr><td>7,000 G</td><td>13,600 G</td><td>1,00 M</td><td>10,233370 G</td><td>-33.56</td><td>-20.56</td></tr><tr><td>13,600 G</td><td>19,100 G</td><td>1,00 M</td><td>15,318063 G</td><td>-24.44</td><td>-11.44</td></tr></table> <p>Date: 23.JUL.2015 10:45:18</p>  | Start | Stop | RBW | Freq | PerAbs | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 1,000 G | 1,00 M | 855,227000 M | -41.51 | -28.51 | 1,000 G | 1,845 G | 1,00 M | 1,149776 G | -40.92 | -27.92 | 1,915 G | 3,000 G | 1,00 M | 2,836436 G | -39.63 | -26.63 | 3,000 G | 7,000 G | 1,00 M | 3,604000 G | -36.07 | -23.07 | 7,000 G | 13,600 G | 1,00 M | 10,233370 G | -33.56 | -20.56 | 13,600 G | 19,100 G | 1,00 M | 15,318063 G | -24.44 | -11.44 |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop                         | RBW    | Freq         | PerAbs | ΔLimit |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]                         | [Hz]   | [Hz]         | [dBm]  | [dB]   |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 820,000 M                    | 1,00 M | 383,130000 M | -44.03 | -31.03 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 850,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 G                      | 1,00 M | 966,468758 M | -43.65 | -28.65 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G                      | 1,00 M | 2,946000 G   | -40.79 | -27.79 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G                      | 1,00 M | 5,216000 G   | -38.11 | -25.11 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,000 G                      | 1,00 M | 8,160000 G   | -35.67 | -22.67 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop                         | RBW    | Freq         | PerAbs | ΔLimit |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]                         | [Hz]   | [Hz]         | [dBm]  | [dB]   |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,000 G                      | 1,00 M | 855,227000 M | -41.51 | -28.51 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,845 G                      | 1,00 M | 1,149776 G   | -40.92 | -27.92 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1,915 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G                      | 1,00 M | 2,836436 G   | -39.63 | -26.63 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G                      | 1,00 M | 3,604000 G   | -36.07 | -23.07 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13,600 G                     | 1,00 M | 10,233370 G  | -33.56 | -20.56 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 13,600 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19,100 G                     | 1,00 M | 15,318063 G  | -24.44 | -11.44 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Highest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Highest Channel              |        |              |        |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
|  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>466,472500 M</td><td>-43.50</td><td>-30.50</td></tr><tr><td>850,000 M</td><td>1,000 G</td><td>1,00 M</td><td>855,181250 M</td><td>-30.09</td><td>-17.09</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>2,994500 G</td><td>-43.50</td><td>-28.50</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,032000 G</td><td>-38.30</td><td>-25.30</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>8,414500 G</td><td>-35.47</td><td>-22.47</td></tr></table> <p>Date: 23.JUL.2015 10:57:58</p> | Start                        | Stop   | RBW          | Freq   | PerAbs | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,00 M | 466,472500 M | -43.50 | -30.50 | 850,000 M | 1,000 G | 1,00 M | 855,181250 M | -30.09 | -17.09 | 1,000 G | 3,000 G | 1,00 M | 2,994500 G | -43.50 | -28.50 | 3,000 G | 7,000 G | 1,00 M | 3,032000 G | -38.30 | -25.30 | 7,000 G | 9,000 G | 1,00 M | 8,414500 G | -35.47 | -22.47 |  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>1,000 G</td><td>1,00 M</td><td>992,867500 M</td><td>-42.00</td><td>-29.00</td></tr><tr><td>1,000 G</td><td>1,845 G</td><td>1,00 M</td><td>1,202589 G</td><td>-40.36</td><td>-27.36</td></tr><tr><td>1,915 G</td><td>3,000 G</td><td>1,00 M</td><td>1,935271 G</td><td>-36.35</td><td>-23.35</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,013000 G</td><td>-36.39</td><td>-23.39</td></tr><tr><td>7,000 G</td><td>13,600 G</td><td>1,00 M</td><td>10,216675 G</td><td>-33.43</td><td>-20.43</td></tr><tr><td>13,600 G</td><td>19,100 G</td><td>1,00 M</td><td>15,309325 G</td><td>-24.51</td><td>-11.51</td></tr></table> <p>Date: 23.JUL.2015 10:45:48</p> | Start | Stop | RBW | Freq | PerAbs | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 1,000 G | 1,00 M | 992,867500 M | -42.00 | -29.00 | 1,000 G | 1,845 G | 1,00 M | 1,202589 G | -40.36 | -27.36 | 1,915 G | 3,000 G | 1,00 M | 1,935271 G | -36.35 | -23.35 | 3,000 G | 7,000 G | 1,00 M | 3,013000 G | -36.39 | -23.39 | 7,000 G | 13,600 G | 1,00 M | 10,216675 G | -33.43 | -20.43 | 13,600 G | 19,100 G | 1,00 M | 15,309325 G | -24.51 | -11.51 |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop                         | RBW    | Freq         | PerAbs | ΔLimit |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]                         | [Hz]   | [Hz]         | [dBm]  | [dB]   |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 820,000 M                    | 1,00 M | 466,472500 M | -43.50 | -30.50 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 850,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 G                      | 1,00 M | 855,181250 M | -30.09 | -17.09 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G                      | 1,00 M | 2,994500 G   | -43.50 | -28.50 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G                      | 1,00 M | 3,032000 G   | -38.30 | -25.30 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,000 G                      | 1,00 M | 8,414500 G   | -35.47 | -22.47 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop                         | RBW    | Freq         | PerAbs | ΔLimit |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]                         | [Hz]   | [Hz]         | [dBm]  | [dB]   |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,000 G                      | 1,00 M | 992,867500 M | -42.00 | -29.00 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,845 G                      | 1,00 M | 1,202589 G   | -40.36 | -27.36 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1,915 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G                      | 1,00 M | 1,935271 G   | -36.35 | -23.35 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G                      | 1,00 M | 3,013000 G   | -36.39 | -23.39 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13,600 G                     | 1,00 M | 10,216675 G  | -33.43 | -20.43 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 13,600 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19,100 G                     | 1,00 M | 15,309325 G  | -24.51 | -11.51 |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |     |      |        |        |      |      |      |      |       |      |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |

**Frequency Stability**

| Test Conditions  | Middle Channel    | WCDMA Band V<br>(RMC 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                | Result          |
| 50               | Normal Voltage    | 0.0012                         | PASS            |
| 40               | Normal Voltage    | 0.0036                         |                 |
| 30               | Normal Voltage    | 0.0096                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0084                         |                 |
| 0                | Normal Voltage    | 0.0108                         |                 |
| -10              | Normal Voltage    | 0.0012                         |                 |
| -20              | Normal Voltage    | 0.0048                         |                 |
| -30              | Normal Voltage    | 0.0024                         |                 |
| 20               | Maximum Voltage   | 0.0120                         |                 |
| 20               | Normal Voltage    | 0.0096                         |                 |
| 20               | Battery End Point | 0.0072                         |                 |

| Test Conditions  | Middle Channel    | WCDMA Band II<br>(RMC 12.2Kbps) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                 | Result           |
| 50               | Normal Voltage    | 0.0027                          | PASS             |
| 40               | Normal Voltage    | 0.0037                          |                  |
| 30               | Normal Voltage    | 0.0005                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0064                          |                  |
| 0                | Normal Voltage    | 0.0085                          |                  |
| -10              | Normal Voltage    | 0.0074                          |                  |
| -20              | Normal Voltage    | 0.0059                          |                  |
| -30              | Normal Voltage    | 0.0080                          |                  |
| 20               | Maximum Voltage   | 0.0032                          |                  |
| 20               | Normal Voltage    | 0.0069                          |                  |
| 20               | Battery End Point | 0.0021                          |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### ERP/EIRP

| Channel | Mode                         | Horizontal |        | Vertical |        |
|---------|------------------------------|------------|--------|----------|--------|
|         |                              | ERP(dBm)   | ERP(W) | ERP(dBm) | ERP(W) |
| Lowest  | GSM850<br>GPRS class 8       | 26.91      | 0.4909 | 17.67    | 0.0585 |
| Middle  |                              | 26.38      | 0.4345 | 17.72    | 0.0592 |
| Highest |                              | 25.68      | 0.3698 | 17.27    | 0.0533 |
| Lowest  | GSM850<br>EDGE class 8       | 22.23      | 0.1671 | 13.37    | 0.0217 |
| Middle  |                              | 21.98      | 0.1578 | 12.86    | 0.0193 |
| Highest |                              | 22.03      | 0.1596 | 12.76    | 0.0189 |
| Lowest  | WCDMA Band V<br>RMC 12.2Kbps | 19.06      | 0.0805 | 9.96     | 0.0099 |
| Middle  |                              | 19.16      | 0.0824 | 10.47    | 0.0111 |
| Highest |                              | 18.99      | 0.0793 | 10.58    | 0.0114 |
| Limit   | ERP < 7W                     | Result     |        | PASS     |        |

| Channel | Mode                          | Horizontal |         | Vertical  |         |
|---------|-------------------------------|------------|---------|-----------|---------|
|         |                               | EIRP(dBm)  | EIRP(W) | EIRP(dBm) | EIRP(W) |
| Lowest  | GSM1900<br>GPRS class 8       | 25.10      | 0.3236  | 24.04     | 0.2535  |
| Middle  |                               | 24.87      | 0.3069  | 24.59     | 0.2877  |
| Highest |                               | 25.76      | 0.3767  | 25.00     | 0.3162  |
| Lowest  | GSM1900<br>EDGE class 8       | 22.58      | 0.1811  | 21.96     | 0.1570  |
| Middle  |                               | 22.45      | 0.1758  | 21.93     | 0.1560  |
| Highest |                               | 23.20      | 0.2089  | 22.81     | 0.1910  |
| Lowest  | WCDMA Band II<br>RMC 12.2Kbps | 17.38      | 0.0547  | 16.46     | 0.0443  |
| Middle  |                               | 17.59      | 0.0574  | 17.31     | 0.0538  |
| Highest |                               | 18.56      | 0.0718  | 17.86     | 0.0611  |
| Limit   | EIRP < 2W                     | Result     |         | PASS      |         |

**Radiated Spurious Emission**

| GSM850 (GPRS class 8) |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-----------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel               | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                | 1648                 | -61.16         | -13              | -48.16                  | -70.58                  | -62.92                   | 0.98                       | 4.89                        | H                     |
|                       | 2472                 | -55.37         | -13              | -42.37                  | -70.2                   | -57.25                   | 1.28                       | 5.32                        | H                     |
|                       | 3296                 | -59.40         | -13              | -46.40                  | -75.94                  | -62.81                   | 1.54                       | 7.10                        | H                     |
|                       | 1648                 | -61.30         | -13              | -48.30                  | -68.71                  | -63.06                   | 0.98                       | 4.89                        | V                     |
|                       | 2472                 | -53.50         | -13              | -40.50                  | -68.84                  | -55.38                   | 1.28                       | 5.32                        | V                     |
|                       | 3296                 | -60.48         | -13              | -47.48                  | -76.29                  | -63.89                   | 1.54                       | 7.10                        | V                     |
| Middle                | 1672                 | -60.33         | -13              | -47.33                  | -69.46                  | -62.01                   | 0.99                       | 4.82                        | H                     |
|                       | 2512                 | -54.02         | -13              | -41.02                  | -67.21                  | -55.99                   | 1.29                       | 5.41                        | H                     |
|                       | 3344                 | -59.63         | -13              | -46.63                  | -75.73                  | -63.24                   | 1.56                       | 7.31                        | H                     |
|                       | 1672                 | -59.87         | -13              | -46.87                  | -66.87                  | -61.55                   | 0.99                       | 4.82                        | V                     |
|                       | 2512                 | -49.72         | -13              | -36.72                  | -64.84                  | -51.69                   | 1.29                       | 5.41                        | V                     |
|                       | 3344                 | -60.20         | -13              | -47.20                  | -75.73                  | -63.81                   | 1.56                       | 7.31                        | V                     |
| Highest               | 1696                 | -63.08         | -13              | -50.08                  | -72.55                  | -64.68                   | 1.00                       | 4.75                        | H                     |
|                       | 2544                 | -59.17         | -13              | -46.17                  | -72.8                   | -61.15                   | 1.30                       | 5.44                        | H                     |
|                       | 3392                 | -59.93         | -13              | -46.93                  | -76.14                  | -63.73                   | 1.57                       | 7.52                        | H                     |
|                       | 1696                 | -63.61         | -13              | -50.61                  | -71.3                   | -65.21                   | 1.00                       | 4.75                        | V                     |
|                       | 2544                 | -55.91         | -13              | -42.91                  | -71.23                  | -57.89                   | 1.30                       | 5.44                        | V                     |
|                       | 3392                 | -60.51         | -13              | -47.51                  | -76.23                  | -64.31                   | 1.57                       | 7.52                        | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| GSM850 (EDGE class 8) |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-----------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel               | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                | 1648                 | -64.37         | -13              | -51.37                  | -73.85                  | -66.13                   | 0.98                       | 4.89                        | H                     |
|                       | 2472                 | -61.20         | -13              | -48.20                  | -74.14                  | -63.08                   | 1.28                       | 5.32                        | H                     |
|                       | 3296                 | -59.79         | -13              | -46.79                  | -76.2                   | -63.2                    | 1.54                       | 7.10                        | H                     |
|                       | 1648                 | -64.95         | -13              | -51.95                  | -72.39                  | -66.71                   | 0.98                       | 4.89                        | V                     |
|                       | 2472                 | -58.65         | -13              | -45.65                  | -73.63                  | -60.53                   | 1.28                       | 5.32                        | V                     |
|                       | 3296                 | -60.91         | -13              | -47.91                  | -76.23                  | -64.32                   | 1.54                       | 7.10                        | V                     |
| Middle                | 1672                 | -64.67         | -13              | -51.67                  | -73.93                  | -66.35                   | 0.99                       | 4.82                        | H                     |
|                       | 2512                 | -61.72         | -13              | -48.72                  | -74.88                  | -63.69                   | 1.29                       | 5.41                        | H                     |
|                       | 3344                 | -59.80         | -13              | -46.80                  | -76.03                  | -63.41                   | 1.56                       | 7.31                        | H                     |
|                       | 1672                 | -66.72         | -13              | -53.72                  | -73.83                  | -68.4                    | 0.99                       | 4.82                        | V                     |
|                       | 2512                 | -58.87         | -13              | -45.87                  | -73.99                  | -60.84                   | 1.29                       | 5.41                        | V                     |
|                       | 3344                 | -59.85         | -13              | -46.85                  | -76.01                  | -63.46                   | 1.56                       | 7.31                        | V                     |
| Highest               | 1696                 | -64.85         | -13              | -51.85                  | -74.18                  | -66.45                   | 1.00                       | 4.75                        | H                     |
|                       | 2544                 | -61.83         | -13              | -48.83                  | -75.35                  | -63.81                   | 1.30                       | 5.44                        | H                     |
|                       | 3392                 | -59.98         | -13              | -46.98                  | -76.24                  | -63.78                   | 1.57                       | 7.52                        | H                     |
|                       | 1696                 | -65.64         | -13              | -52.64                  | -73.26                  | -67.24                   | 1.00                       | 4.75                        | V                     |
|                       | 2544                 | -61.66         | -13              | -48.66                  | -75                     | -63.64                   | 1.30                       | 5.44                        | V                     |
|                       | 3392                 | -61.58         | -13              | -48.58                  | -76.09                  | -65.38                   | 1.57                       | 7.52                        | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| GSM1900 (GPRS class 8) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                 | 3700                 | -55.58          | -13              | -42.58                  | -74.2                   | -62.15                   | 1.67                       | 8.24                        | H                     |
|                        | 5548                 | -53.01          | -13              | -40.01                  | -76.66                  | -60.08                   | 2.65                       | 9.72                        | H                     |
|                        | 7403                 | -47.67          | -13              | -34.67                  | -76.39                  | -56.82                   | 2.46                       | 11.61                       | H                     |
|                        | 3700                 | -55.67          | -13              | -42.67                  | -74.09                  | -62.24                   | 1.67                       | 8.24                        | V                     |
|                        | 5548                 | -54.34          | -13              | -41.34                  | -76.66                  | -61.41                   | 2.65                       | 9.72                        | V                     |
|                        | 7403                 | -48.28          | -13              | -35.28                  | -76.36                  | -57.43                   | 2.46                       | 11.61                       | V                     |
| Middle                 | 3763                 | -54.91          | -13              | -41.91                  | -74.22                  | -61.54                   | 1.69                       | 8.32                        | H                     |
|                        | 5639                 | -51.63          | -13              | -38.63                  | -75.39                  | -58.68                   | 2.71                       | 9.76                        | H                     |
|                        | 7522                 | -47.87          | -13              | -34.87                  | -76.39                  | -57.26                   | 2.42                       | 11.81                       | H                     |
|                        | 3763                 | -55.61          | -13              | -42.61                  | -74.12                  | -62.24                   | 1.69                       | 8.32                        | V                     |
|                        | 5639                 | -53.00          | -13              | -40.00                  | -75.18                  | -60.05                   | 2.71                       | 9.76                        | V                     |
|                        | 7522                 | -48.49          | -13              | -35.49                  | -76.58                  | -57.88                   | 2.42                       | 11.81                       | V                     |
| Highest                | 3819                 | -54.57          | -13              | -41.57                  | -74.03                  | -61.25                   | 1.70                       | 8.38                        | H                     |
|                        | 5730                 | -51.78          | -13              | -38.78                  | -75.74                  | -58.81                   | 2.76                       | 9.79                        | H                     |
|                        | 7641                 | -47.91          | -13              | -34.91                  | -76.43                  | -57.41                   | 2.38                       | 11.88                       | H                     |
|                        | 3819                 | -55.54          | -13              | -42.54                  | -74.16                  | -62.22                   | 1.70                       | 8.38                        | V                     |
|                        | 5730                 | -52.23          | -13              | -39.23                  | -75.3                   | -59.26                   | 2.76                       | 9.79                        | V                     |
|                        | 7641                 | -48.18          | -13              | -35.18                  | -76.12                  | -57.68                   | 2.38                       | 11.88                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| GSM1900 (EDGE class 8) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                 | 3700                 | -55.80          | -13              | -42.80                  | -74.26                  | -62.37                   | 1.67                       | 8.24                        | H                     |
|                        | 5548                 | -52.64          | -13              | -39.64                  | -76.43                  | -59.71                   | 2.65                       | 9.72                        | H                     |
|                        | 7403                 | -47.77          | -13              | -34.77                  | -76.46                  | -56.92                   | 2.46                       | 11.61                       | H                     |
|                        | 3700                 | -55.64          | -13              | -42.64                  | -74.03                  | -62.21                   | 1.67                       | 8.24                        | V                     |
|                        | 5548                 | -54.74          | -13              | -41.74                  | -76.73                  | -61.81                   | 2.65                       | 9.72                        | V                     |
|                        | 7403                 | -48.47          | -13              | -35.47                  | -76.49                  | -57.62                   | 2.46                       | 11.61                       | V                     |
| Middle                 | 3763                 | -54.88          | -13              | -41.88                  | -74.02                  | -61.51                   | 1.69                       | 8.32                        | H                     |
|                        | 5639                 | -52.01          | -13              | -39.01                  | -75.63                  | -59.06                   | 2.71                       | 9.76                        | H                     |
|                        | 7522                 | -47.93          | -13              | -34.93                  | -76.42                  | -57.32                   | 2.42                       | 11.81                       | H                     |
|                        | 3763                 | -55.76          | -13              | -42.76                  | -74.25                  | -62.39                   | 1.69                       | 8.32                        | V                     |
|                        | 5639                 | -53.47          | -13              | -40.47                  | -75.54                  | -60.52                   | 2.71                       | 9.76                        | V                     |
|                        | 7522                 | -48.25          | -13              | -35.25                  | -76.65                  | -57.64                   | 2.42                       | 11.81                       | V                     |
| Highest                | 3819                 | -54.71          | -13              | -41.71                  | -74.18                  | -61.39                   | 1.70                       | 8.38                        | H                     |
|                        | 5730                 | -51.74          | -13              | -38.74                  | -75.66                  | -58.77                   | 2.76                       | 9.79                        | H                     |
|                        | 7641                 | -47.81          | -13              | -34.81                  | -76.25                  | -57.31                   | 2.38                       | 11.88                       | H                     |
|                        | 3819                 | -55.21          | -13              | -42.21                  | -73.81                  | -61.89                   | 1.70                       | 8.38                        | V                     |
|                        | 5730                 | -51.88          | -13              | -38.88                  | -75.64                  | -58.91                   | 2.76                       | 9.79                        | V                     |
|                        | 7641                 | -48.18          | -13              | -35.18                  | -76.03                  | -57.68                   | 2.38                       | 11.88                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| WCDMA Band V (RMC 12.2Kbps) |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                     | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                      | 1656                 | -64.45         | -13              | -51.45                  | -73.79                  | -66.18                   | 0.98                       | 4.86                        | H                     |
|                             | 2480                 | -61.98         | -13              | -48.98                  | -75.04                  | -63.89                   | 1.28                       | 5.34                        | H                     |
|                             | 3304                 | -59.90         | -13              | -46.90                  | -76.52                  | -63.34                   | 1.54                       | 7.14                        | H                     |
|                             | 1656                 | -66.66         | -13              | -53.66                  | -73.89                  | -68.39                   | 0.98                       | 4.86                        | V                     |
|                             | 2480                 | -60.24         | -13              | -47.24                  | -75.31                  | -62.15                   | 1.28                       | 5.34                        | V                     |
|                             | 3304                 | -61.56         | -13              | -48.56                  | -76.73                  | -65                      | 1.54                       | 7.14                        | V                     |
| Middle                      | 1672                 | -63.88         | -13              | -50.88                  | -73.34                  | -65.56                   | 0.99                       | 4.82                        | H                     |
|                             | 2512                 | -61.94         | -13              | -48.94                  | -75.19                  | -63.91                   | 1.29                       | 5.41                        | H                     |
|                             | 3344                 | -59.54         | -13              | -46.54                  | -76                     | -63.15                   | 1.56                       | 7.31                        | H                     |
|                             | 1672                 | -66.73         | -13              | -53.73                  | -73.86                  | -68.41                   | 0.99                       | 4.82                        | V                     |
|                             | 2512                 | -59.64         | -13              | -46.64                  | -74.9                   | -61.61                   | 1.29                       | 5.41                        | V                     |
|                             | 3344                 | -60.96         | -13              | -47.96                  | -76.13                  | -64.57                   | 1.56                       | 7.31                        | V                     |
| Highest                     | 1696                 | -64.55         | -13              | -51.55                  | -73.84                  | -66.15                   | 1.00                       | 4.75                        | H                     |
|                             | 2536                 | -61.99         | -13              | -48.99                  | -75.4                   | -63.97                   | 1.30                       | 5.43                        | H                     |
|                             | 3384                 | -59.77         | -13              | -46.77                  | -76.1                   | -63.54                   | 1.57                       | 7.49                        | H                     |
|                             | 1696                 | -66.29         | -13              | -53.29                  | -74.05                  | -67.89                   | 1.00                       | 4.75                        | V                     |
|                             | 2536                 | -60.04         | -13              | -47.04                  | -75.24                  | -62.02                   | 1.30                       | 5.43                        | V                     |
|                             | 3384                 | -59.95         | -13              | -46.95                  | -75.57                  | -63.72                   | 1.57                       | 7.49                        | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| WCDMA Band II (RMC 12.2Kbps) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                      | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                       | 3707                 | -55.88          | -13              | -42.88                  | -74.31                  | -62.46                   | 1.67                       | 8.25                        | H                     |
|                              | 5555                 | -52.28          | -13              | -39.28                  | -75.93                  | -59.35                   | 2.66                       | 9.72                        | H                     |
|                              | 7410                 | -47.84          | -13              | -34.84                  | -76.29                  | -57                      | 2.46                       | 11.62                       | H                     |
|                              | 3707                 | -54.99          | -13              | -41.99                  | -73.78                  | -61.57                   | 1.67                       | 8.25                        | V                     |
|                              | 5555                 | -54.17          | -13              | -41.17                  | -76.17                  | -61.24                   | 2.66                       | 9.72                        | V                     |
|                              | 7410                 | -47.95          | -13              | -34.95                  | -75.95                  | -57.11                   | 2.46                       | 11.62                       | V                     |
| Middle                       | 3763                 | -55.18          | -13              | -42.18                  | -74.14                  | -61.81                   | 1.69                       | 8.32                        | H                     |
|                              | 5639                 | -51.91          | -13              | -38.91                  | -75.85                  | -58.96                   | 2.71                       | 9.76                        | H                     |
|                              | 7522                 | -47.95          | -13              | -34.95                  | -76.49                  | -57.34                   | 2.42                       | 11.81                       | H                     |
|                              | 3763                 | -55.99          | -13              | -42.99                  | -74.36                  | -62.62                   | 1.69                       | 8.32                        | V                     |
|                              | 5639                 | -53.73          | -13              | -40.73                  | -75.83                  | -60.78                   | 2.71                       | 9.76                        | V                     |
|                              | 7522                 | -48.36          | -13              | -35.36                  | -76.28                  | -57.75                   | 2.42                       | 11.81                       | V                     |
| Highest                      | 3812                 | -54.90          | -13              | -41.90                  | -74.15                  | -61.57                   | 1.70                       | 8.37                        | H                     |
|                              | 5723                 | -51.78          | -13              | -38.78                  | -75.8                   | -58.82                   | 2.75                       | 9.79                        | H                     |
|                              | 7627                 | -47.56          | -13              | -34.56                  | -75.83                  | -57.05                   | 2.39                       | 11.88                       | H                     |
|                              | 3812                 | -55.70          | -13              | -42.70                  | -74.2                   | -62.37                   | 1.70                       | 8.37                        | V                     |
|                              | 5723                 | -52.63          | -13              | -39.63                  | -75.67                  | -59.67                   | 2.75                       | 9.79                        | V                     |
|                              | 7627                 | -48.04          | -13              | -35.04                  | -75.89                  | -57.53                   | 2.39                       | 11.88                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.