



# EMC Test Report

**Product Name: WCDMA/GPRS/GSM Mobile Phone**

**Model Number: U1005**

**Report No: SYBH(R)080052008EB-1**

**Reliability Laboratory of Huawei Technologies Co., Ltd.**

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## Notice 2

Modification Information:

Table 1 Modification Information

|                          |   |                        |
|--------------------------|---|------------------------|
| Modification Information | 1 |                        |
|                          | 2 |                        |
|                          | 3 | <i>Not Applicable!</i> |
|                          | 4 |                        |
|                          | 5 |                        |
|                          | 6 |                        |
|                          | 7 |                        |



**REPORT ON** **EMC TEST OF WCDMA/GPRS/GSM Mobile Phone**  
**M/N: U1005**

**REGULATION** **FCC CFR47 Part 15: Subpart B;**

**START OF TEST** **May.04, 2008**  
**END OF TEST** **May.17, 2008**

**Final Judgement:** **Pass**

**Approver** 2008-05-23 张兴海   
**Date** **Name** **Signature**

**Reviewer** 2008-05-22 余辉   
**Date** **Name** **Signature**

**Operator** 2008-05-21 张飞   
**Date** **Name** **Signature**

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## 1 Status

### 1.1 Product Information

CLIENT: Huawei Technologies Co., Ltd.  
ADDRESS: Bantian Longgang District Shenzhen, P.R. China  
MANUFACTURING DESCRIPTION WCDMA/GPRS/GSM Mobile Phone  
MANUFACTURERS MODEL NUMBER U1005

### 1.2 Applied Standard

| FCC Measurement Specification | FCC Limits Part(s) | Description                                 | Result |
|-------------------------------|--------------------|---|--------|
| -                             | 15.107             | Conducted Emission at Power Port            | PASS   |
| -                             | 15.109             | Radiated Emission of Enclosure in Idle Mode | PASS   |
| 2.1051                        | 22.917&24.238      | Radiated Spurious Emission                  | PASS   |

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### 1.3 Test Site

Site 1:  
EMC LABORATORY OF RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD

Site 2:  
EMC LABORATORY OF AUDIX LABORATORY

Site 3:  
EMC LABORATORY OF HUATONGWEI INTERNATIONAL INSPECTION CO, Ltd.

### 1.4 Test environment condition

|                      |         |
|----------------------|---------|
| Ambient temperature  | 20~25°C |
| Relative humidity    | 40%~52% |
| Atmospheric pressure | 101kPa  |

## 2 Summary of Results

Table 2 below shows a brief summary of the results obtained.

Table 2 Summary of results

| <b>EUT Classification:</b> Wireless Terminal         |   |                                      |               |             |
|--|---|--------------------------------------|---------------|-------------|
| <b>Test Items</b>                                    | <b>Test Configuration &amp; Test Mode</b> | <b>Required Performance Criteria</b> | <b>Result</b> | <b>Site</b> |
| <u>Radiated Emissions</u><br>Enclosure Port          | TC1(TM5-TM8)<br>TC2(TM5-TM8)              | N/A                                  | Pass          | Site1       |
| <u>Conducted Emissions</u>                           | TC1(TM1~TM8)<br>TC2(TM1~TM8)              | N/A                                  | Pass          | Site1       |
| <u>Radiated Spurious Emissions</u><br>Enclosure Port | TC1(TM1-TM4)<br>TC2(TM1-TM4)              | N/A                                  | Pass          | Site1       |

Note:

- 1, Measurement taken is within the measurement uncertainty of measurement system.
- 2, TC = Test configuration
- 3, NT=no test. Because of not containing devices susceptible to magnetic fields, the EUT has been exempt from immunity test of power frequency magnetic field.

### 3 Equipment Specification

#### 3.1 General Description

WCDMA/GPRS/GSM Mobile Phone–U1005 is subscriber equipment in the WCDMA/GSM system. The WCDMA frequency band is Band II and Band V. The GSM/GPRS frequency band includes GSM850 and DCS1800 and PCS1900. So only GSM850/PCS1900/WCDMA Band II and WCDMA Band V test datas are included in this report. U1005 implements such functions as RF signal receiving/sending, WCDMA and GSM/GPRS protocol processing, voice and data service etc. Externally it provides earphone port (to provide voice service) and USIM card interface.

#### 3.1.1 Main Equipment Technical Data

Description: WCDMA/GPRS/GSM Mobile Phone  
 Model: U1005  
 Input Rated Voltage: --- 3.7V  
 Rated Power: Normal 3W ,Max 8 W  
 Dimensions: 45.5 mm (L) × 105 mm (W) × 16mm (H)  
 Weight: <90g (with battery)

Table 3 Sub-Assembly Identity

| Mode  |         | Work Frequency            |                         |
|-------|---------|---------------------------|-------------------------|
|       |         | Transmitt Frequency (MHz) | Receive Frequency (MHz) |
| GSM   | GSM850  | 824-849                   | 869-894                 |
|       | PCS1900 | 1850-1910                 | 1930-1990               |
| WCDMA | Band II | 1850-1910                 | 1930-1990               |
|       | Band V  | 824-849                   | 869-894                 |

#### 3.2 Sub-Assembly Identity

Table 4 Sub-Assembly Identity

| Board               |       |                                       |                  |   |
|---------------------|-------|---------------------------------------|------------------|---|
| Model Name          | Qt y. | Hardware Version                      | Serial           | Description   |
| HD1U100M            | 1     | VER.B                                 | VJ2AC10841400045 | Main board of Mobile Phone  |
| Accessory           |       |                                       |                  |   |
| Name                | Qt y. | Manufacture                           | Serials number   | Description   |
| Adapter             | 1     | TECH-POWER INTERNATIONAL CO.,LTD      | TPI6B2500560     | voltage nominal: ~120V<br>Input voltage: ~100-240V ;50/60Hz<br>Output voltage: --- +5.3V, 0.65A<br>Rate power: 4W |
| Adapter             | 1     | Shenzhen Chi Yuan Industrial Co., Ltd | HKY822664842     | voltage nominal: ~120V<br>Input voltage: ~100-240V ;50/60Hz<br>Output voltage: --- +5.3V, 0.65A<br>Rate power: 4W |
| Rechargeable Li-ion | 1     | FMT Electronics Co.,Ltd.              | FMT811287654Y    | Battery Model: HBU83S<br>Rated capacity: 800mAh<br>Nominal Voltage: --- +3.7V<br>Charging Voltage: --- +4.2V      |

#### 4 **System Configuration during EMC Test**

The Equipment under Test (EUT) was functioning correctly during all tests. The EUT was installed within the test site and was configured to simulate a typical user installation.

##### 4.1 **Cables Used during Test**

Table 5 Cable Used during Test

| Port          | Length | Quantity | Type of Cable |
|---------------|--------|----------|---------------|
| AC Power Port | 3m     | 1        | Unshielded    |
| USB           | 0.85m  | 1        | shielded      |
| Earphone      | 1.25m  | 1        | Unshielded    |

##### 4.2 **Associated Equipment Used during Test**

Table 6 Associated Equipment Used during Test

| Name                       | Model  | Manufacturer | S/N    | Cal Date   |
|----------------------------|--------|--------------|--------|------------|
| Radio Communication Tester | CMU200 | R&S          | 108522 | 2007-10-10 |

##### 4.3 **Test Configurations and Test Mode**

###### 4.3.1 **Test Configuration.**

The EUT will be connected to test system (Base Station Simulator) in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

TC1: operate with TPCA-053065VY Adapter

TC2: operate with CHG5365-3C Adapter

Table 7 Configuration table

|     |         |
|-----|---------|
| TC1 | TM1~TM8 |
| TC2 | TM1~TM8 |

###### 4.3.2 **Test Mode**

There were eight test Modes. TM1 to TM8 were shown in the diagrams below:

TM1: operate in traffic GSM 850;

TM2: operate in traffic mode GSM 1900;

TM3: operate in traffic mode WCDMA for band II;

TM4: operate in traffic mode WCDMA for band V;

TM5: operate in idle GSM 850;

TM6: operate in idle mode GSM 1900;

TM7: operate in idle mode WCDMA for band II;

TM8: operate in idle mode WCDMA for band V;

The EUT will be connected to test system (Base Station Simulator) in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

#### 4.4 **Test conditions and test Connections**

#### 4.4.1 Test Conditions

The EUT will be connected to test system (Base Station Simulator) in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

#### 4.4.2 Test Connections

Traffic Mode:

The EUT is required to be in the traffic mode, a call is set up according to the generic call set up procedure and enter the EUT into loop back test mode.(WCDMA see 3GPP TS 34.121,GSM see ETSI TS 151.010).

For WCDMA, the following conditions shall also be met:

Logical Test Interface for details regarding generic call set-up procedure and BER, BLER test loop scenarios:

- set and send continuously up power control commands to the UE;
- The DTX shall be disabled;
- Inner Loop Power Control shall be enabled;
- transmitting and/or receiving (UL/DL) bit rate for reference test channel shall be 12.2 kbit / s.
- The EUT shall be commanded to operate at maximum transmit power;

For Cellular and PCS, the following conditions shall also be met:

- The EUT shall be commanded to operate at maximum transmit power;
- The downlink RXQUAL shall be monitored.

Assign channel frequency to an appropriate channel number. Set the ARFCN channel number to 192 for GSM850, to 4182 for WCDMA 850, to 661 for PCS1900, and to 9400 for WCDMA1900.

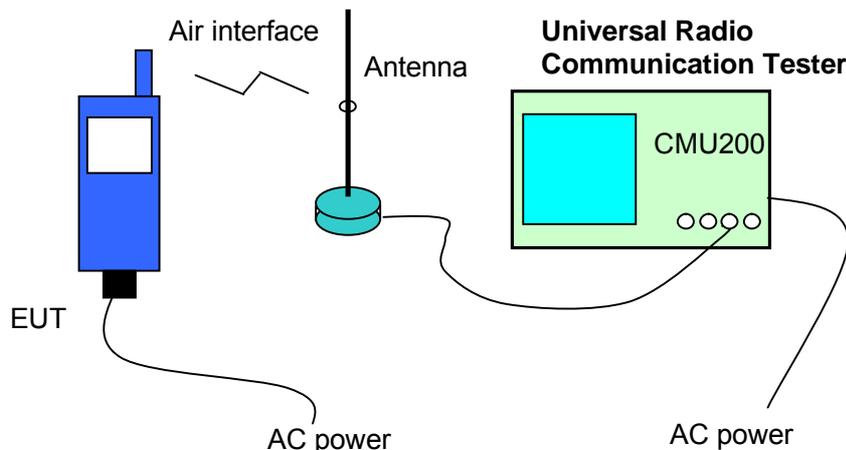


Figure 1.: Test Configuration

Idle Mode:

The EUT will be connected to test system (Base Station Simulator) in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

The EUT is required to be in the idle mode.

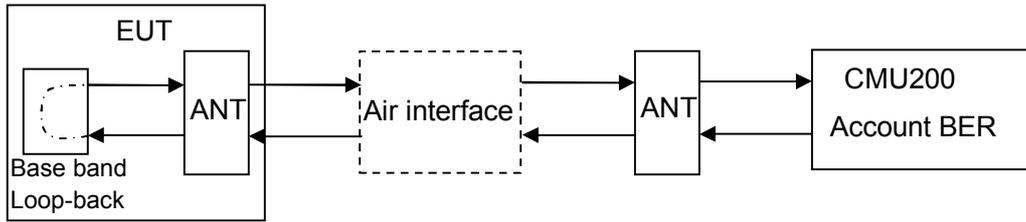
For WCDMA, the following conditions shall be met:

- UE shall be camped on a cell;
- UE shall perform Location Registration (LR) before the test, but not during the test;
- UE's neighbour cell list shall be empty;
- Paging repetition period and DRX cycle shall be set to minimum (shortest possible time interval).

For Cellular and PCS, the following conditions shall be met:

When the EUT is required to be in the idle mode, the test system shall simulate a Base Station (BS) with Broadcast Control Channel/Common Control Channel (BCCH/CCCH) on one carrier. The EUT

shall be synchronized to the BCCH, listening to the CCCH and able to respond to paging messages. Periodic Location Updating shall be disabled.  
Please refer to following figure:



ANT: Antenna  
BER: Bit Error Rate

Figure 2. Test Configuration

## 5 Electromagnetic Interference (EMI)

### 5.1 Radiated Disturbance 30MHz to 1000MHz

#### 5.1.1 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2003). The test distance was 3m. The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4. The Radiated Disturbance measurements were made using a Rohde and Schwarz ESMI Test Receiver and control software ES-K1.

A preliminary scan and a final scan of the emissions were made from 30 MHz to 1GHz by using test script of software; the emissions were measured using a Quasi-Peak Detector. The maximal emission value was acquired by adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m, the azimuth range of turntable was 0° to 360°, The receive antenna has two polarizations V and H.

Huawei Mobile Station was communicated with the BTS simulator through Air interface. The Mobile Station operated on the typical channel and the Mobile Station worked in idle mode, transmitter was not work in this test.

EUT was configured in idle mode and the test performed at worst emission state.

Measurement bandwidth: 30 MHz – 1000 MHz: 120 k Hz

Test set up figure:

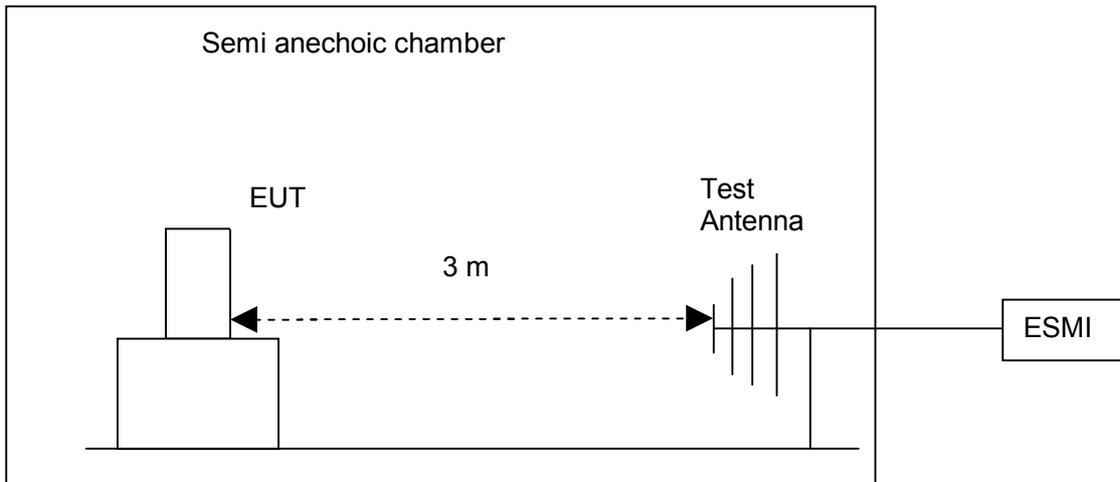


Figure 3. Test set-up

#### 5.1.2 Test Results

The EUT has met the requirements for Radiated Emission of enclosure port.

Table 8 Test Limits

| Frequency of Emission (MHz) | Radiated Limit                 |   |
|-----------------------------|--------------------------------|---|
|                             | Unit( $\mu\text{V}/\text{m}$ ) | Unit( $\text{dB}\mu\text{V}/\text{m}$ ) |
| 30-88                       | 100                            | 40                                      |
| 88-216                      | 150                            | 43.5                                    |
| 216-960                     | 200                            | 46                                      |
| 960-1000                    | 500                            | 54                                      |

**5.2 Conducted Disturbance 0.15 MHz to 30MHz**  
**5.2.1 Test Procedure**

The Table-top EUT was placed upon a non-metallic table 0.8 m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.4: 2003.

Conducted Disturbance at AC Port measurements were undertaken on the L and N Lines. The emissions were measured using a Quasi-Peak Detector and Average Detector.

Huawei Mobile Station was communicated with the BTS simulator through Air interface, the BTS simulator controls the Mobile Station to transmitter the maximum power which defined in specification of product. The Mobile Station operated on the typical channel.

Measurement bandwidth (RBW) for 150kHz to 30 MHz: 9 kHz;

Test Set-up figure:

The Mobile Station was setup in the screened chamber and operated under nominal conditions.

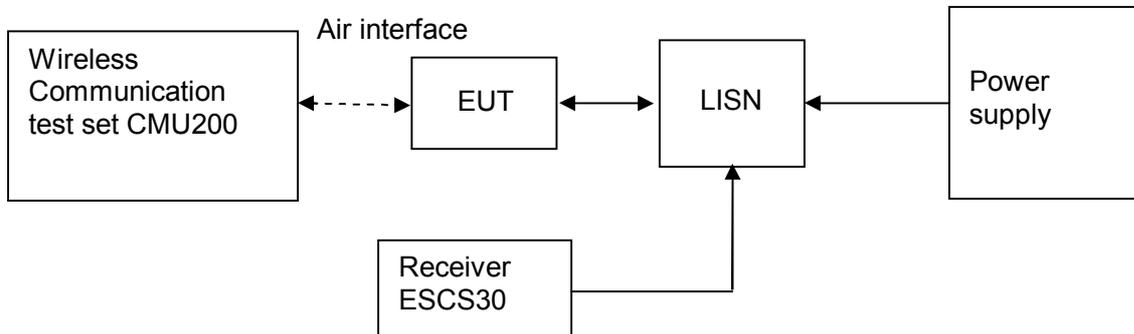


Figure 4. Test Set-up

**5.2.2 Test Results**

The EUT has met requirements for Conducted disturbance of power lines.

Table 9 Test Limit of DC&AC Power Port

| Frequency range | 150kHz~ 30MHz    |                  |
|-----------------|------------------|------------------|
| Classification  | Class B          |                  |
| Limit(Class B)  | Voltage limits   |                  |
|                 | QP               | AV               |
| 0.15MHz~0.5MHz  | 66~56 dB $\mu$ V | 56~46 dB $\mu$ V |
| 0.5MHz~5MHz     | 56 dB $\mu$ V    | 46 dB $\mu$ V    |
| 5MHz~30MHz      | 60 dB $\mu$ V    | 50 dB $\mu$ V    |

### 5.3 Radiated Spurious Emissions

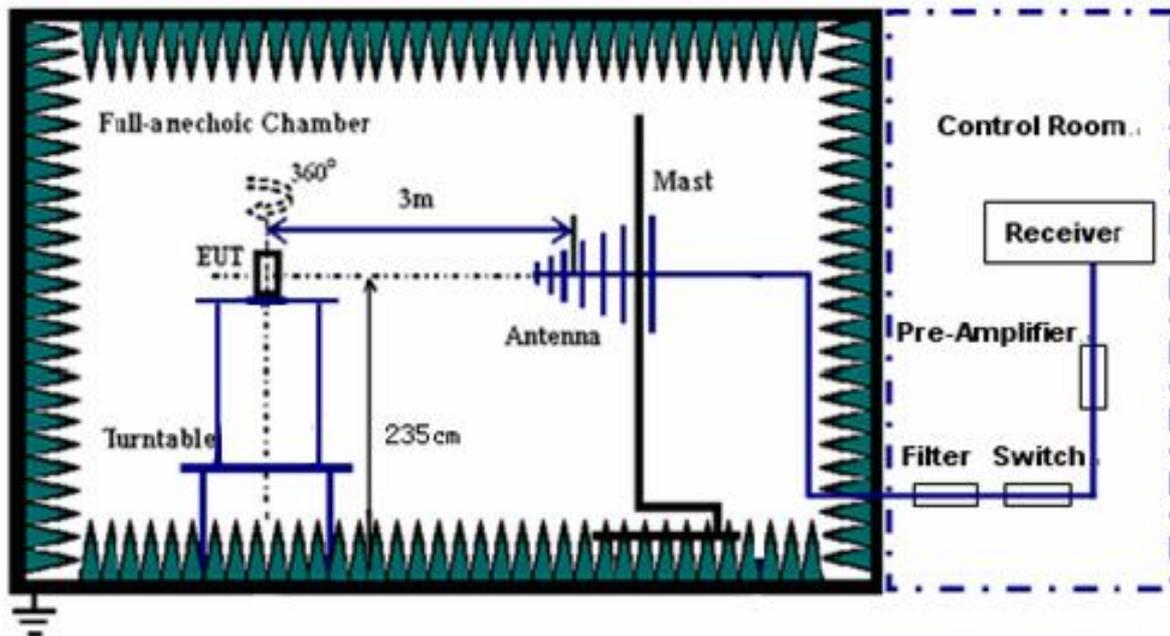
#### 5.3.1 Test Procedure

A test site fulfilling the requirements of ITU-R Recommendation SM329-10 was used. The EUT was placed on a non-conducting support in the anechoic chamber and was operated from a power source via an RF filter to avoid radiation from the power leads.

Step 1:

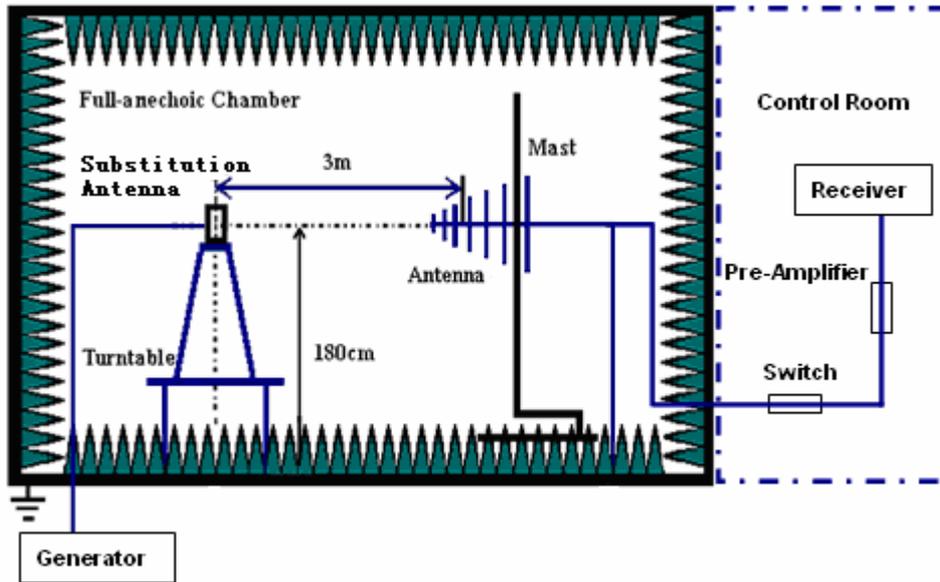
For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, EIRP shall be measured when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in 2.1033(c)(8). Connect the EUT to the BTS simulator via the air interface.

Test the Radiated maximum output power by the Rohde and Schwarz ESIB26 Test Receiver from test antenna.



Step 2:

Use substitution method to verify the maximum output power. The EUT is substituted by a dipole antenna. The dipole is connected to a signal generator. And then adjust the output level of the signal generator to get the same received power recorded in step1 on ESIB26 Test Receiver, and record the power level of Signal Generator. Of course, the cable loss at the test frequency should be compensated.



According to part 22.917, the defined measurement bandwidth as following:

22.917(b) Measurement procedure: Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

Measurement bandwidth (RBW) for 9 kHz up to 1 GHz: 100 kHz;  
Measurement bandwidth (RBW) for 1GHz up to 18 GHz: 1MHz;

| Frequency band | Minimum requirement (E.R.P) traffic mode |
|----------------|--|
| 30MHz~18GHz    | -13dBm                                   |

According to part 24.238, the defined measurement bandwidth as following:

24.238 (b) Measurement procedure: Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater.

Measurement bandwidth (RBW) for 9 kHz up to 150 kHz: 1 kHz;  
Measurement bandwidth (RBW) for 150 kHz up to 30 MHz: 10 kHz;  
Measurement bandwidth (RBW) for 30 MHz up to 26.5 GHz: 1 MHz;

Table 10 Radiated Spurious Emissions Limits

| Frequency band | Minimum requirement (E.R.P) traffic mode |
|----------------|--|
| 30MHz~26.5GHz  | -13dBm                                   |

### 5.3.2 Test Results

The EUT has met the requirements of Part22 and Part24 requirement.

## 6 Main Test Instruments

Table 11 Main Test Equipments

| Test item            | Test Instrument          | Model            | Manufacturer | Cal-Date     | Cal Interval (month) |
|----------------------|--------------------------|------------------|--------------|--------------|----------------------|
| RE                   | EMI Test receiver        | ESMI             | R&S          | May.30.2007  | 12                   |
|                      | Broadband Antenna        | CBL 6112B (2536) | SCHAFFNER    | Jun.08, 2007 | 12                   |
| CE                   | EMI Test receiver        | ESCS30           | R&S          | May.30, 2007 | 12                   |
|                      | Artificial Mains Network | ENV4200          | R&S          | May.21, 2007 | 12                   |
| RSE                  | EMI Test receiver        | ESIB26           | R&S          | Apr.23, 2008 | 12                   |
|                      | Horn Antenna             | 3117             | EMCO         | Oct.29, 2007 | 12                   |
|                      | Broadband Antenna        | CBL6112B (2747)  | SCHAFFNER    | Oct.17.2007  | 12                   |
|                      | Horn Antenna             | 3160             | EMCO         | May.20.2007  | 12                   |
| Software Information |                          |                  |              |              |                      |
| Test Item            | Software Name            | Manufacturer     | Version      |              |                      |
| RE/CE                | ES-K1                    | R&S              | 1.7.1        |              |                      |
| RSE                  | EMC32                    | R&S              | V5.10.99     |              |                      |

## 7 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

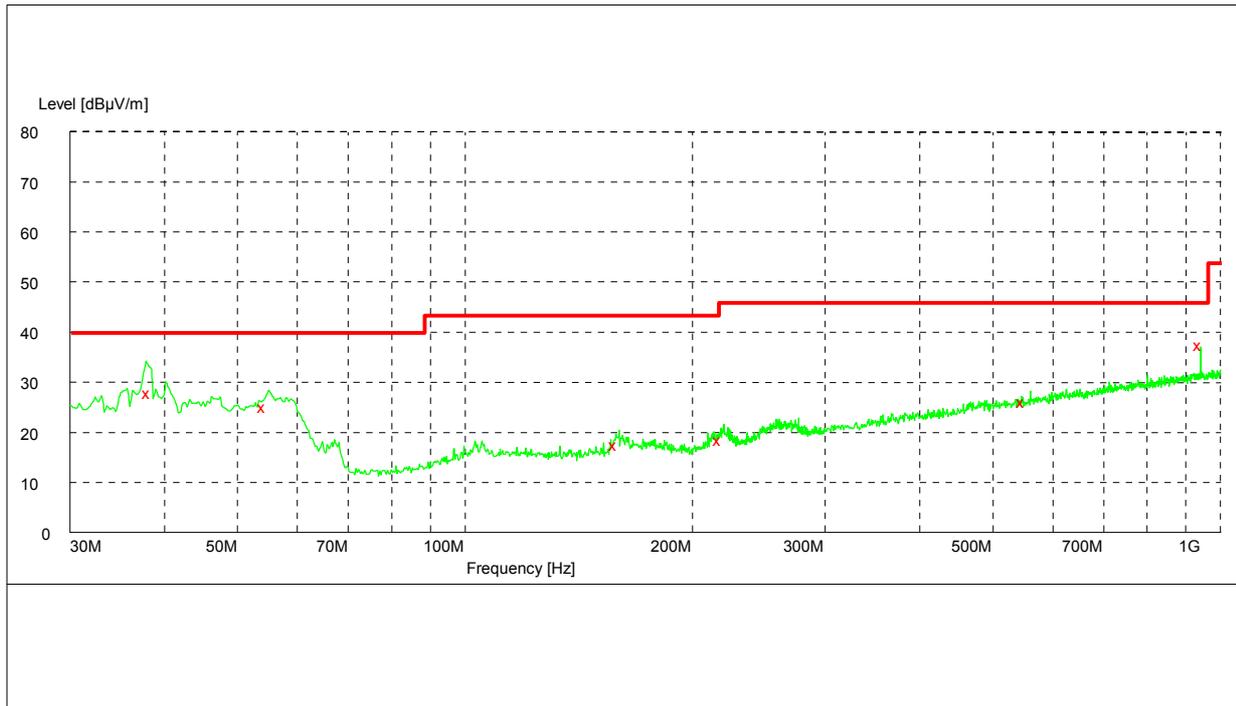
Table 12 System Measurement Uncertainty

|     | <b>Items</b>                     | <b>Extended Uncertainty</b> |
|-----|----------------------------------|-----------------------------|
| RE  | Field strength (dB $\mu$ V/m)    | U=4.6dB; k=2(30MHz-1GHz)    |
| RSE | ERP (dBm)                        | U=2.2dB; k=2                |
| CE  | Disturbance Voltage (dB $\mu$ V) | U=3.3dB; k=2                |

## 8 Graph and Data of Emission Test

### 8.1 Radiated Disturbance

This test was carried out in all the test modes, Here only the worst test result was shown.



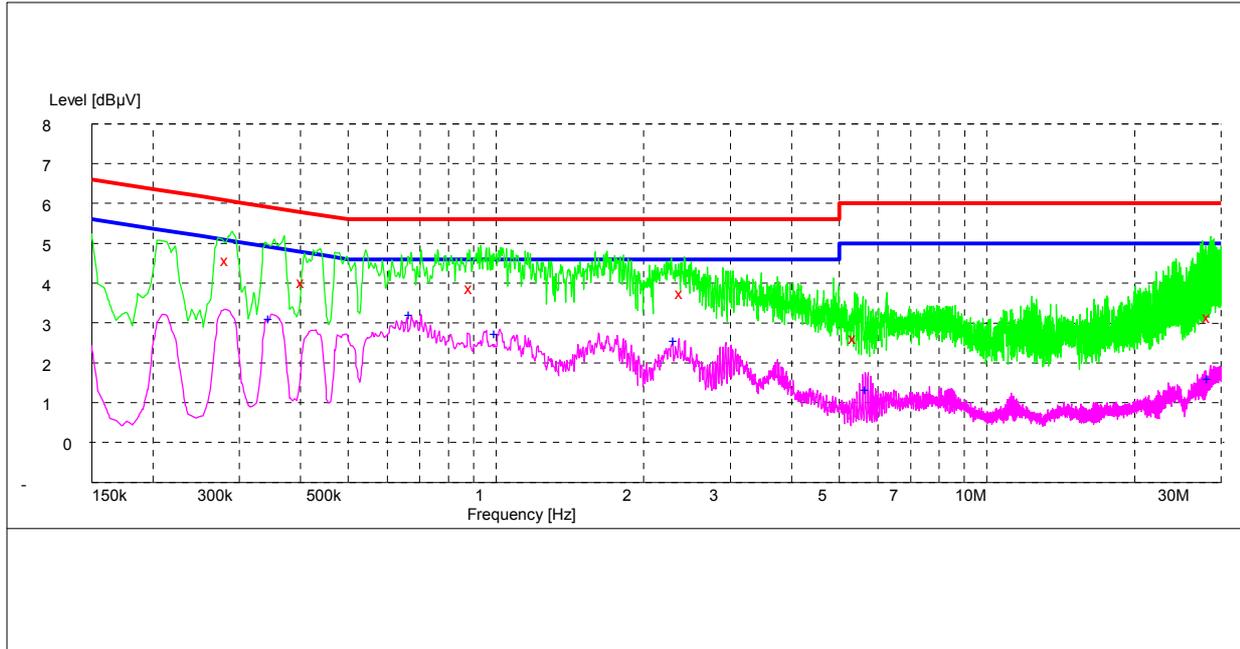
#### MEASUREMENT RESULT: QP Detector

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarisation |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|--------------|
| 38.280000     | 28.10        | -10.9     | 40.0         | 11.9      | 100.0     | 354.00      | VERTICAL     |
| 54.420000     | 25.70        | -17.4     | 40.0         | 14.3      | 100.0     | 0.00        | VERTICAL     |
| 158.820000    | 17.80        | -14.6     | 43.5         | 25.7      | 143.0     | 258.00      | HORIZONTAL   |
| 219.240000    | 19.40        | -13.2     | 46.0         | 26.6      | 134.0     | 40.00       | HORIZONTAL   |
| 548.760000    | 26.30        | -4.8      | 46.0         | 19.7      | 279.0     | 252.00      | HORIZONTAL   |
| 941.400000    | 37.70        | 0.6       | 46.0         | 8.3       | 114.0     | 86.00       | HORIZONTAL   |

## 8.2 Conducted Disturbance

This test was carried out in all the test modes, Here only the worst test result was shown.

### 8.2.1 AC Power Port Test Data



#### MEASUREMENT RESULT: QP Detector

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE  |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.285000      | 46.20      | 10.1      | 61         | 14.8      | L3   | GND |
| 0.406500      | 40.60      | 10.0      | 58         | 17.4      | L3   | GND |
| 0.892500      | 39.30      | 10.0      | 56         | 16.7      | N    | GND |
| 2.400000      | 38.00      | 10.1      | 56         | 18.0      | L3   | GND |
| 5.397000      | 26.70      | 10.1      | 60         | 33.3      | L3   | GND |
| 28.464000     | 31.90      | 10.5      | 60         | 28.1      | N    | GND |

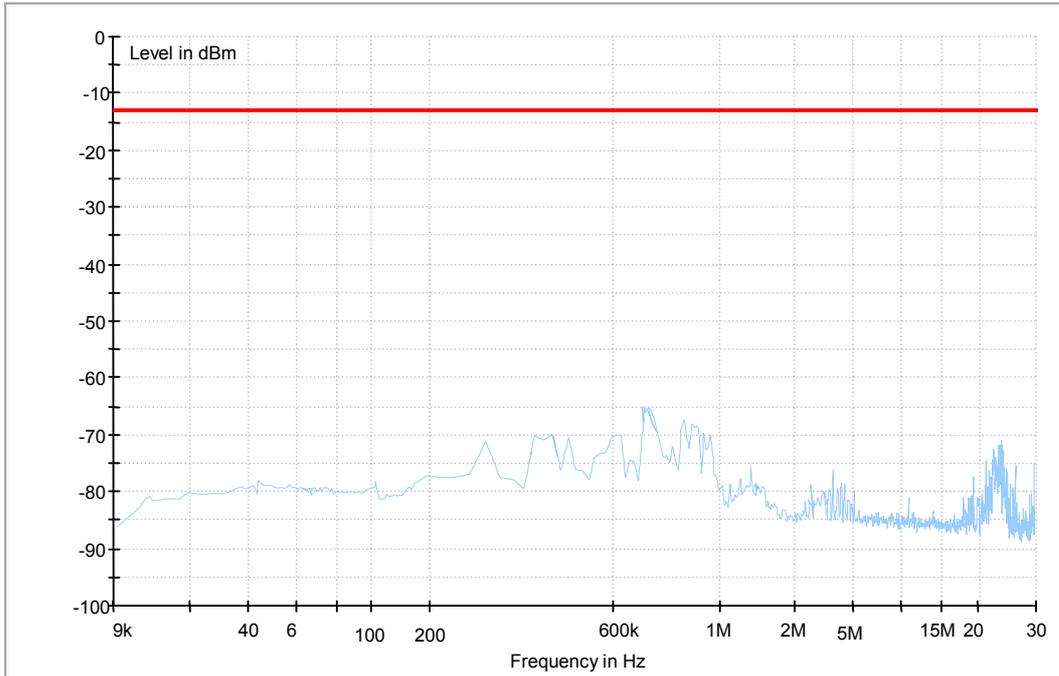
#### MEASUREMENT RESULT: AV Detector

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE  |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.348000      | 31.60      | 10.1      | 49         | 17.4      | L3   | GND |
| 0.672000      | 32.30      | 10.0      | 46         | 13.7      | L3   | GND |
| 1.005000      | 27.70      | 10.0      | 46         | 18.3      | L3   | GND |
| 2.323500      | 25.80      | 10.1      | 46         | 20.2      | L3   | GND |
| 5.725500      | 13.70      | 10.1      | 50         | 36.3      | N    | GND |
| 28.477500     | 16.30      | 10.5      | 50         | 33.7      | L3   | GND |

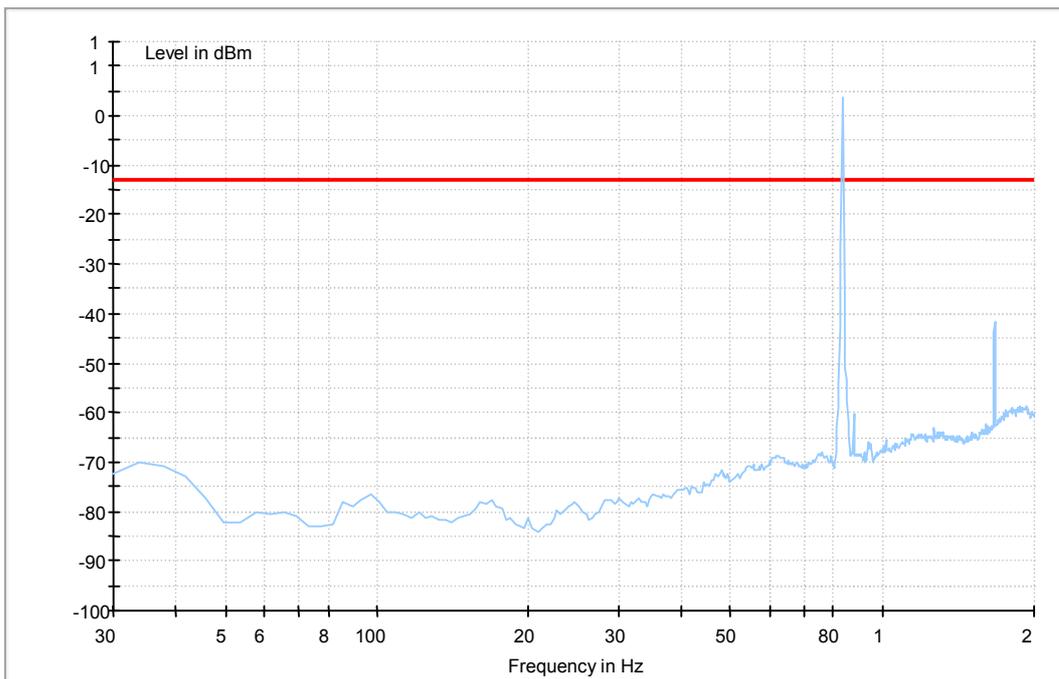
### 8.3 Radiated Spurious Emission

#### 8.3.1 For GSM 850(Traffic Mode)

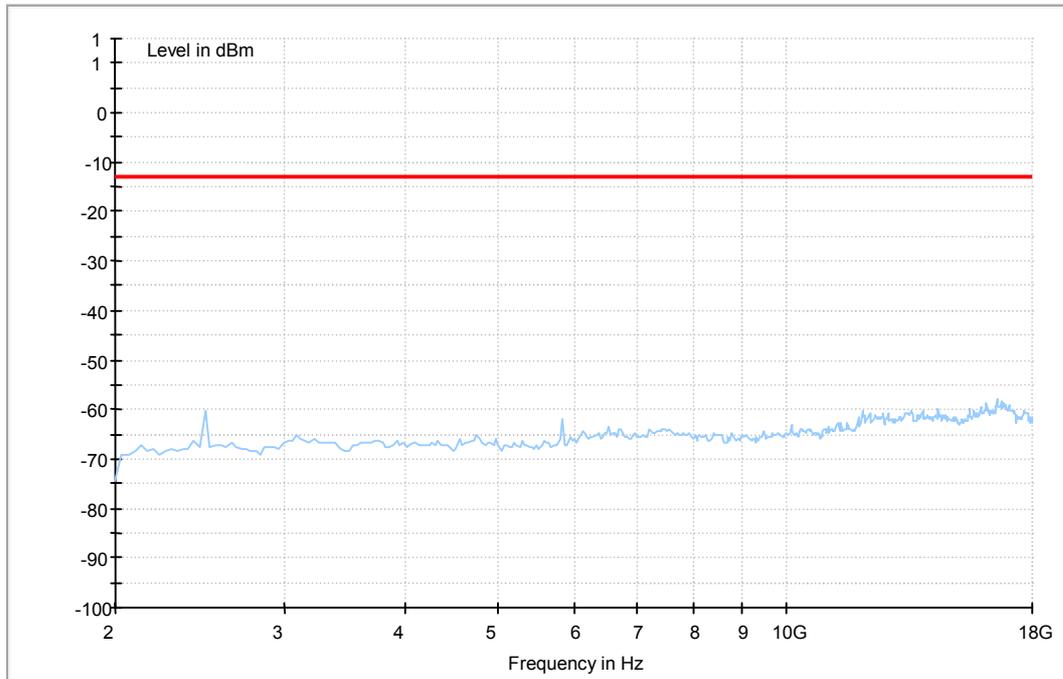
Traffic Mode (9kHz-30MHz)



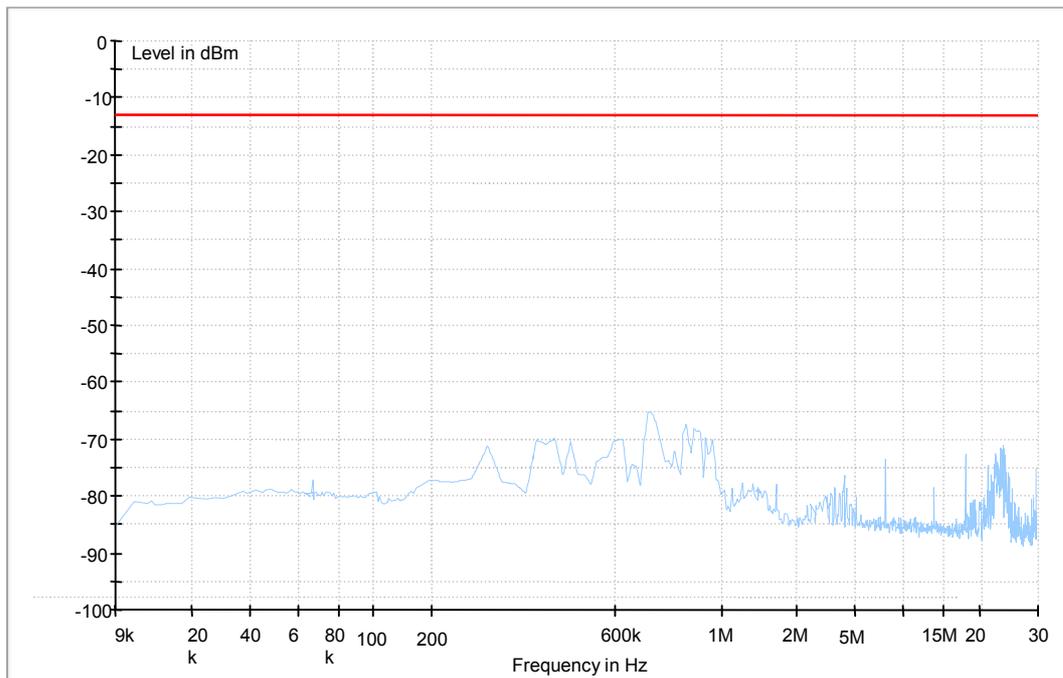
Traffic Mode (30MHz-2GHz)



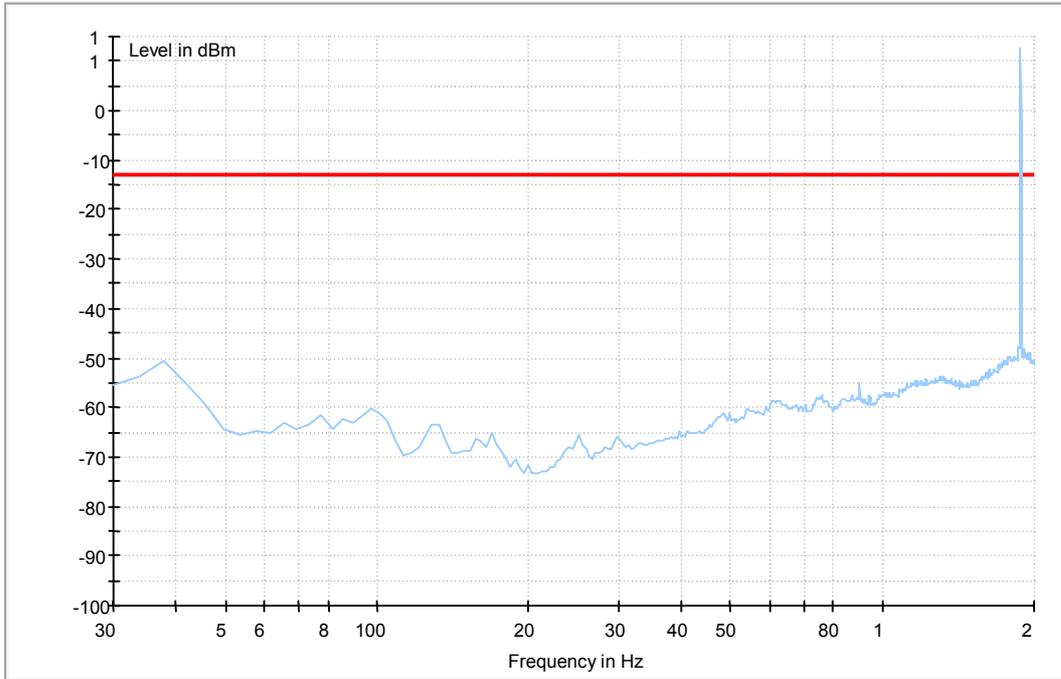
Traffic Mode (2GHz-18GHz)



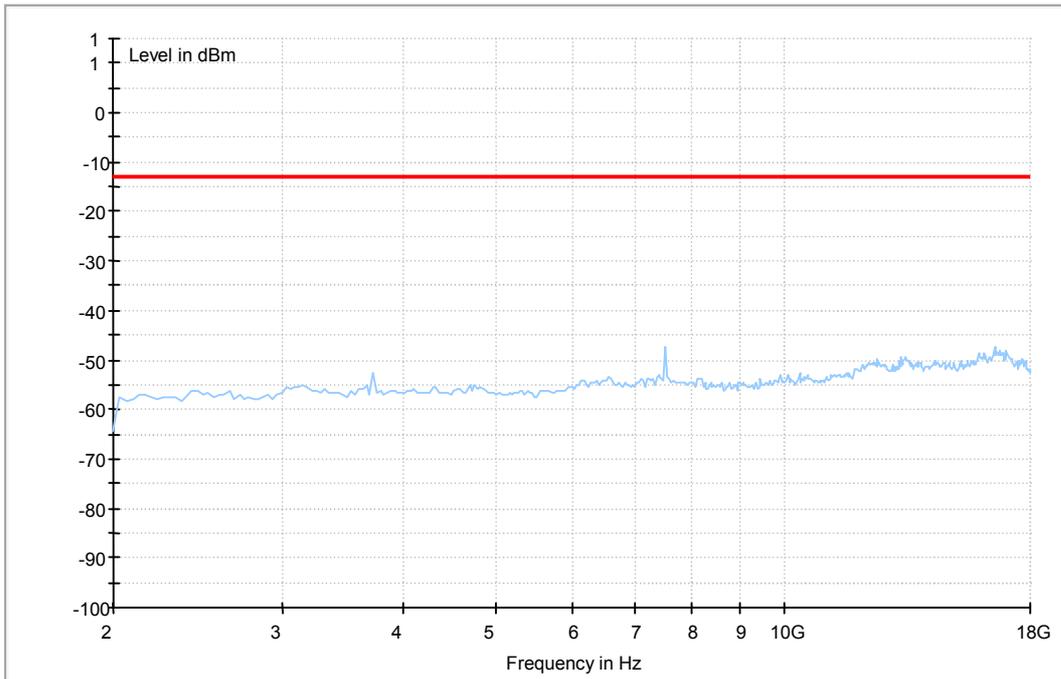
**8.3.2 For PCS1900**  
Traffic Mode (9kHz-30MHz)



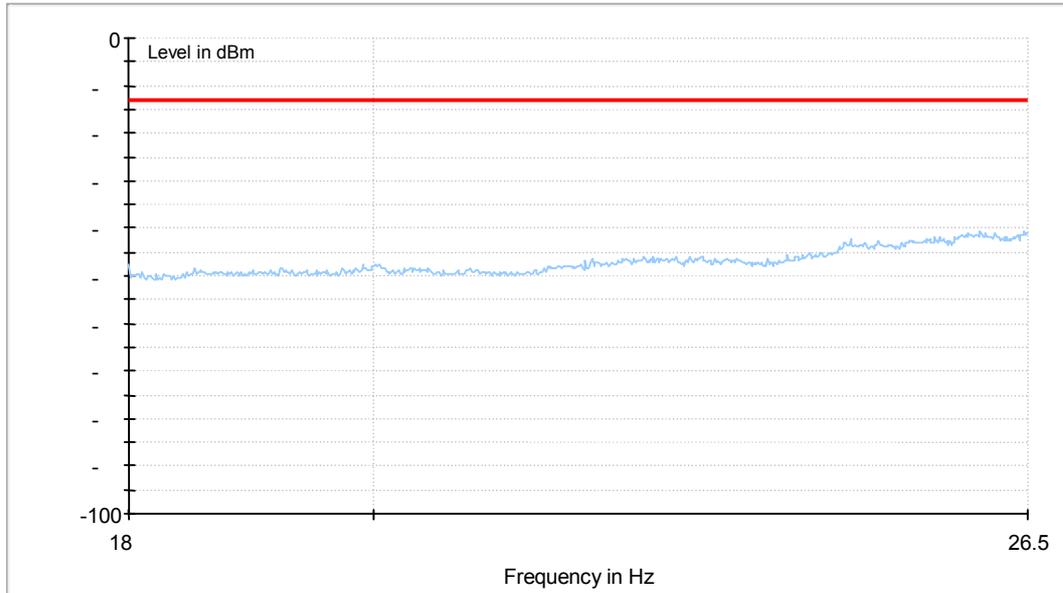
Traffic Mode (30MHz-2GHz)



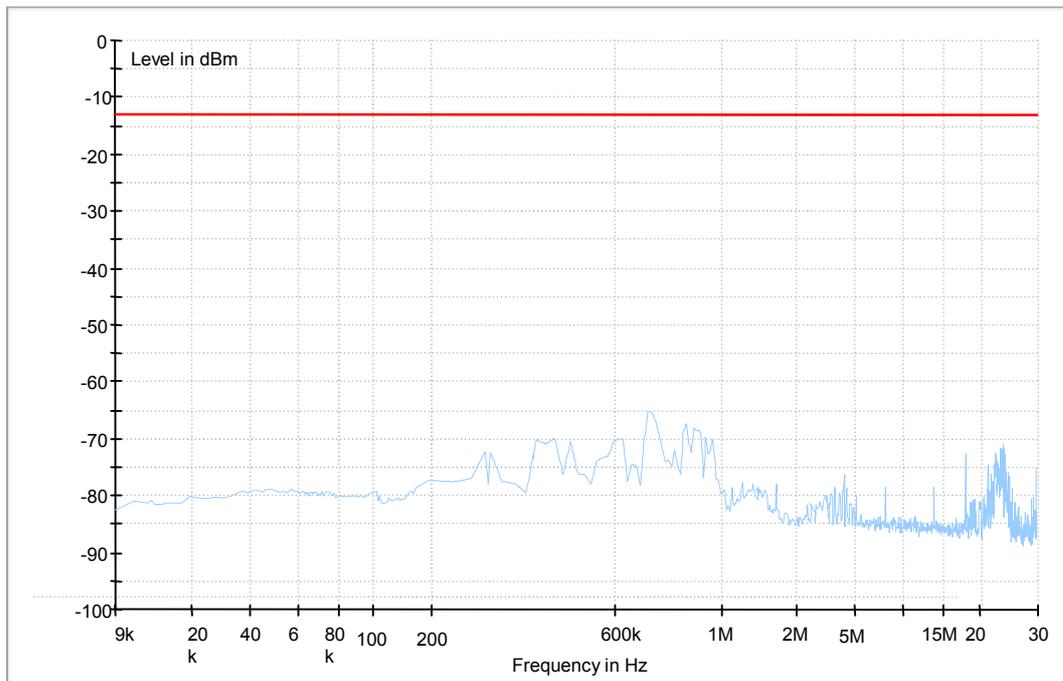
Traffic Mode (2GHz-18GHz)



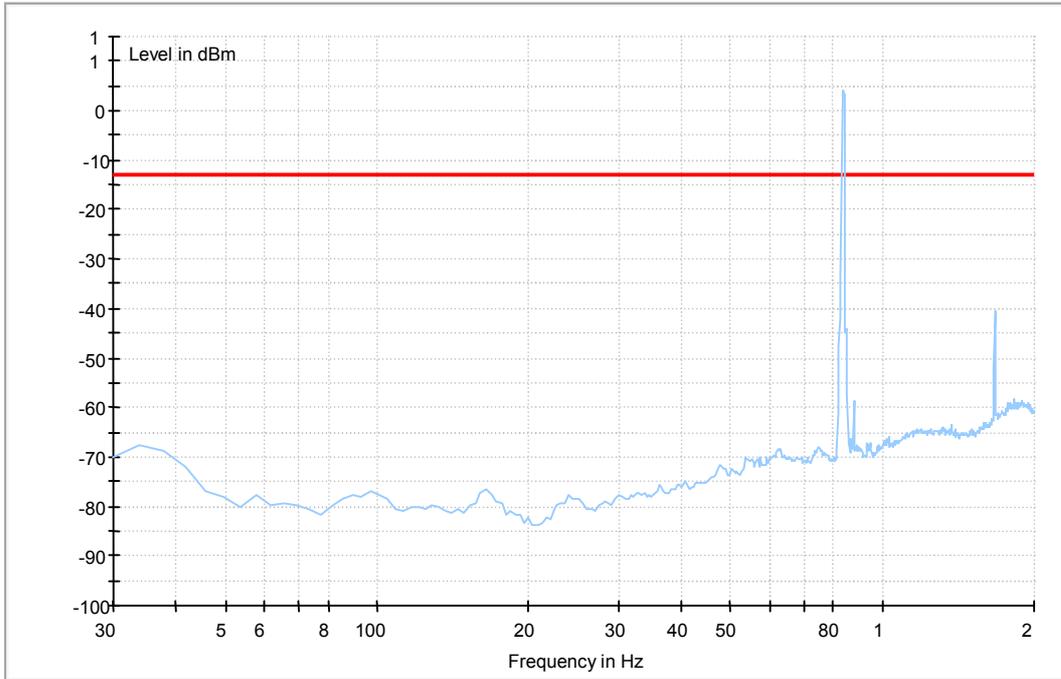
Traffic Mode (18GHz-26.5GHz)



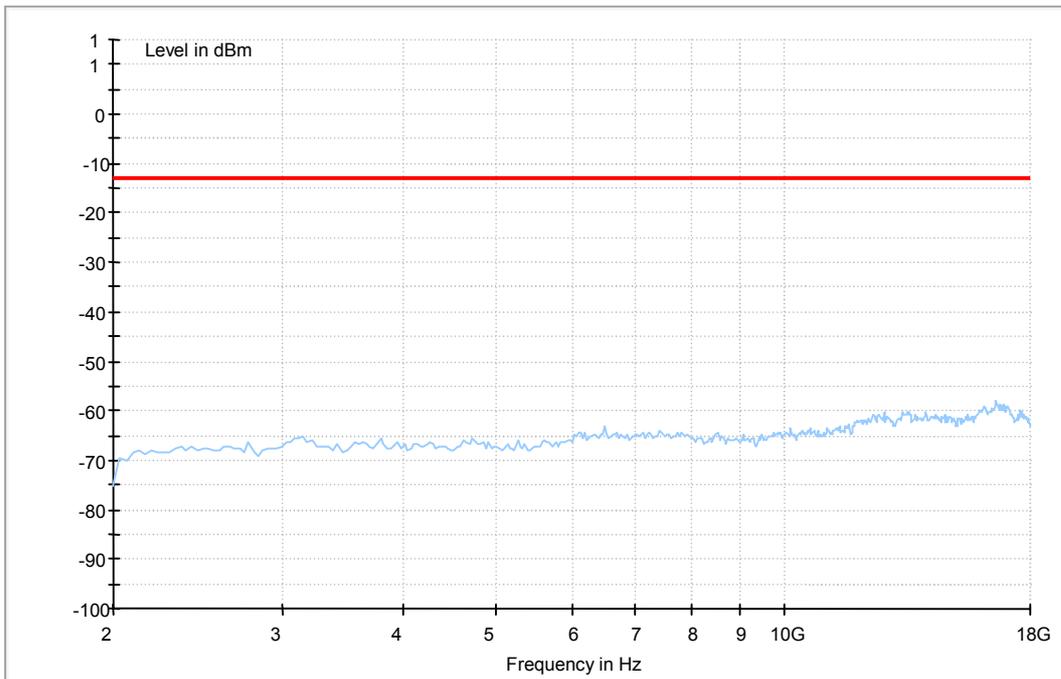
**8.3.3 For WCDMA Band V**  
Traffic Mode (9kHz-30MHz)



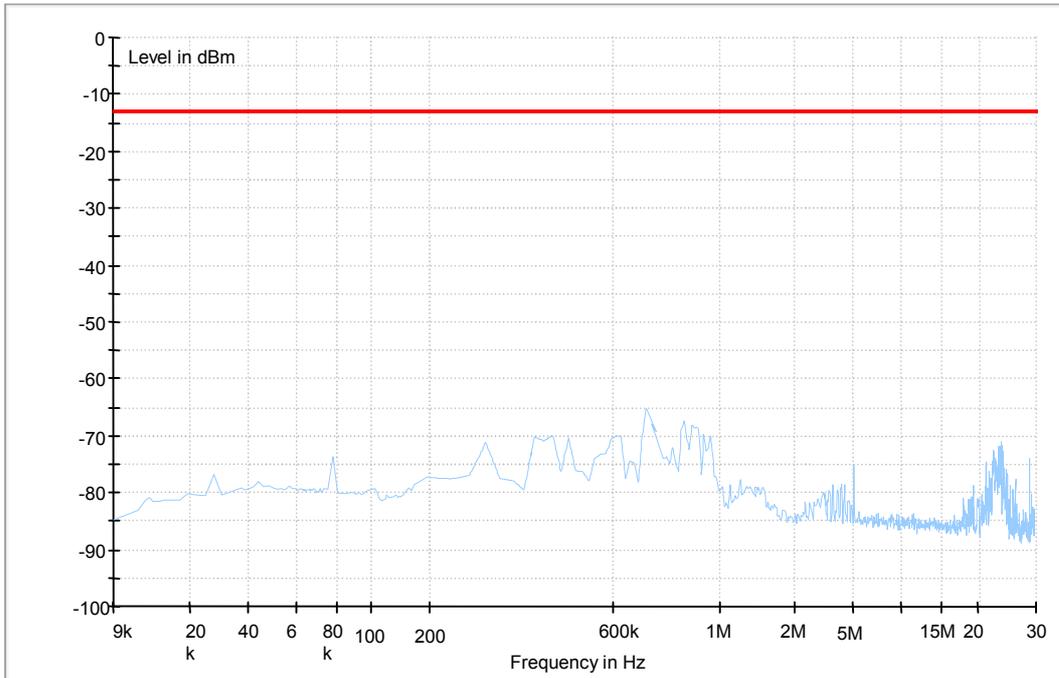
Traffic Mode (30MHz-2GHz)



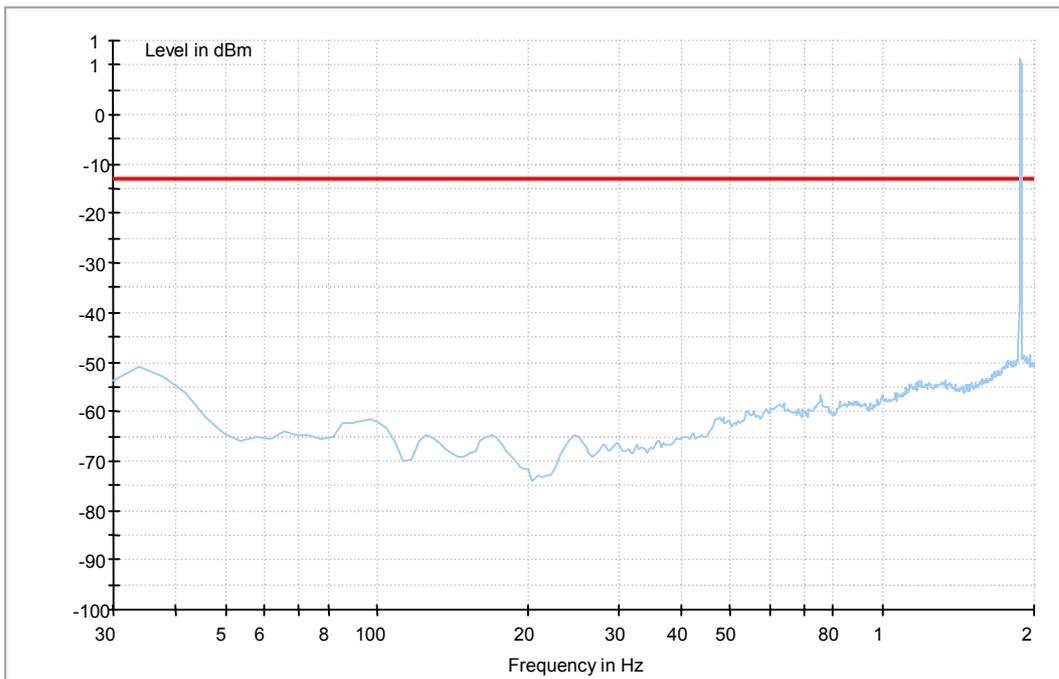
Traffic Mode (2GHz-18GHz)



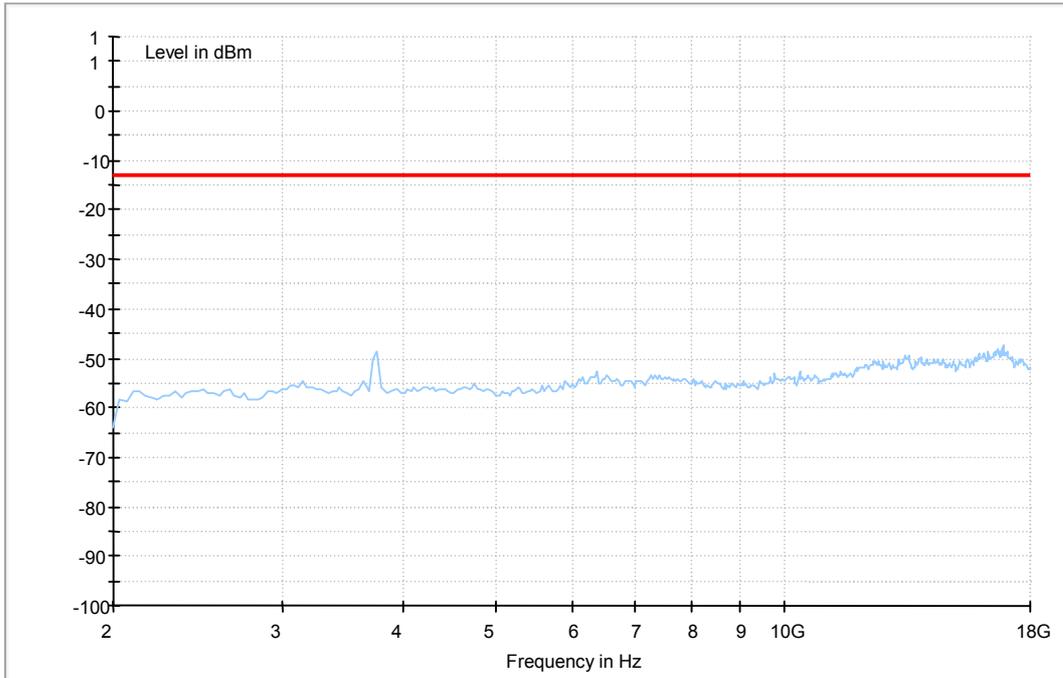
### 8.3.4 For WCDMA Band II Traffic Mode (9kHz-30MHz)



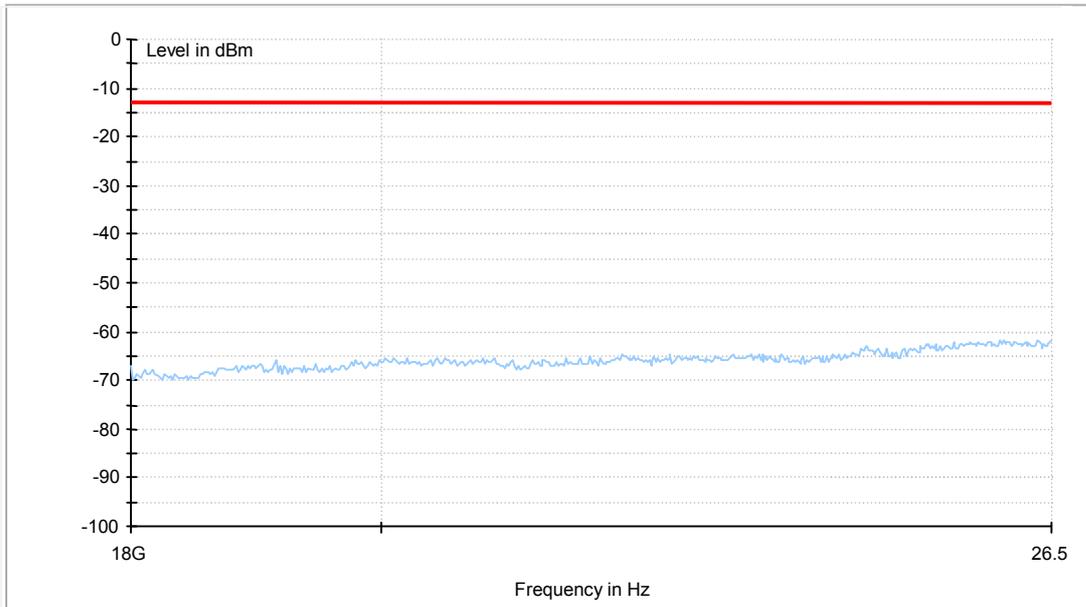
### Traffic Mode (30MHz-2GHz)



Traffic Mode (2GHz-18GHz)



Traffic Mode (18GHz-26.5GHz)



**END**