



EMC Test Report

Product Name:
HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth

Model Number:U3315h

Report No: SYBHZ(R)E025122008EB-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 HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth |
| REGULATION | M/N: U3315h FCC CFR47 Part 15: Subpart B; FCC CFR47 Part 22: Subpart H; FCC CFR47 Part 24: Subpart E; |
| START OF TEST | Feb.04, 2009 |
| END OF TEST | Feb.14, 2009 |
| Final Judgement: | Pass |

Approver

2009-02-25

Date

张兴海

Name

Signature



Reviewer

2009-02-18

Date

余辉

Name

Signature



Operator

2009-02-17

Date

徐广义

Name

徐广义
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: HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth
MANUFACTURERS MODEL NUMBER: U3315h

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 |

1.3 Test Site

Site 1:
EMC LABORATORY OF RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES 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

| EUT Classification: Wireless Terminal | | | | |
|--|--------------------------------|-------------------------------|--------|-------|
| Test Items | Test Configuration & Test Mode | Required Performance Criteria | Result | Site |
| <u>Radiated Emissions</u> Enclosure Port | TC1/TC2/TC3 (TM9-TM16) | N/A | Pass | Site1 |
| <u>Conducted Emissions</u> | TC1/TC2/TC3 (TM1-TM16) | N/A | Pass | Site1 |
| <u>Radiated Spurious Emissions</u> Enclosure Port | TC1/TC2/TC3 (TM1-TM8) | 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

HUAWEI HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth – U3315h is subscriber equipment in the WCDMA/GSM system. The GPRS/GSM/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900. The WCDMA frequency band is Band II and Band V for U3315h. But only GSM850 and PCS1900 WCDMA Band II and Band V test data are included in this report. U3315h implements such functions as RF signal receiving/sending, WCDMA/HSDPA and GSM/GPRS/EDGE protocol processing, voice and data service etc. Externally it provides Micro SD card interface, earphone port(to provide voice service) and USIM card interface.

3.1.1 Main Equipment Technical Data

| | |
|----------------------|--|
| Description: | HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth |
| Models: | U3315h |
| Input Rated Voltage: | 3.7V DC |
| Rated Power: | Normal 3W ,Max 8 W |
| Dimensions: | 99mm (L) × 46.6mm (W) × 16.5mm (H) |
| Weight: | <110g (with battery) |
| S/N: | JM2AA108C0101298 |

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 | 824-849 | 869-894 |
| | Band V | 1850-1910 | 1930-1990 |

3.2 Sub-Assembly Identity

Table 4 Sub-Assembly Identity

| Board | | | | |
|------------|------|--|------------------|--|
| Model Name | Qty. | Hardware Version | Serial | Description |
| HD3U330M | 1 | VER.B | JM2AA108C0101298 | Main board of Mobile Phone |
| Accessory | | | | |
| Name | Qty. | Manufacture | Serials number | Description |
| Adapter | 1 | TECH-POWER INTERNATIONAL CO.,LTD | TPCA-050065UY | Input Voltage : 100-240V ~50/60Hz, 0.2A Output Voltage: 5.0V 650mA Rated Power: 3.25W |
| Adapter | 1 | Shen Zhen Huntkey Power Technology Co.,Ltd | CHG5065-3C | Input Voltage : 100-240V ~50/60Hz, 0.2A Output Voltage: 5.0V 650mA Rated Power: 3.25W |
| Adapter | 1 | Huawei Technologies Co., Ltd. | HS-050040U2 | Input Voltage : 100-240V ~50/60Hz, 0.2A Output Voltage: 5.0V 400mA Rated Power: 2W |

| | | | | |
|------------------------|---|--------------------------------|--------|---|
| Rechargeable Li-ion | 1 | FMT Electronics Co.,Ltd. | HBU570 | Rated capacity: 900mAh Nominal Voltage:  +3.7V 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 | 249421 | 2008-9-9 |

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-050065UY Adapter

TC2: operate with CHG5065—3C Adapter

TC3: operate with HS-050040U2 Adapter

Table 7 Configuration table

| | |
|-------------|----------|
| TC1/TC2/TC3 | TM1~TM16 |
|-------------|----------|

4.3.2 Test Mode

There were sixteen test Modes. TM1 to TM16 were shown in the diagrams below:

TM1: operate in traffic mode GSM 1900;

TM2: operate in traffic mode EGPRS 1900;

TM3: operate in traffic mode GSM 850;

TM4: operate in traffic mode EGPRS 850;

TM5: operate in traffic mode WCDMA BANDII;

TM6: operate in traffic mode HSDPA BANDII;

TM7: operate in traffic mode WCDMA BANDV;

TM8: operate in traffic mode HSDPA BANDV;

TM9: operate in idle mode GSM 1900;

TM10: operate in idle mode EGPRS 1900;

TM11: operate in idle mode GSM 850;

TM12: operate in idle mode EGPRS 850;

TM13: operate in idle mode WCDMA BANDII;

TM14: operate in idle mode HSDPA BANDII;

TM15: operate in idle mode WCDMA BANDV;

TM16: operate in idle mode HSDPA BANDV;

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:

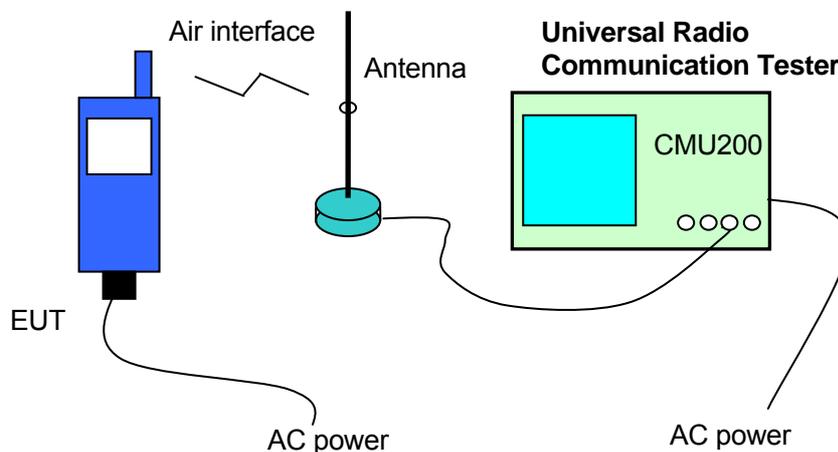
The EUT is required to be in the traffic mode, a call is set up according to the generic call set up procedure and enter the EUT into loop back test mode.(GSM see ETSI TS 151.010).

For PCS1900, 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. Here, set the ARFCN channel number to 661 for PCS1900



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.

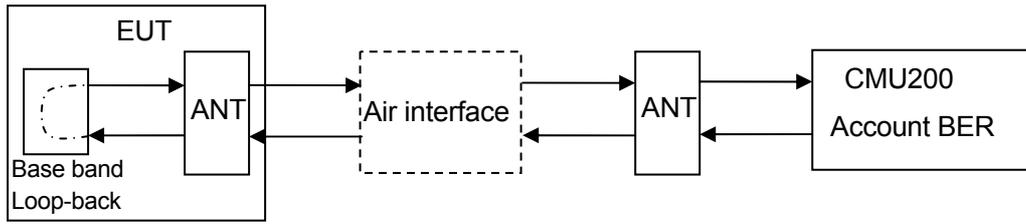
For WCDMA, the following conditions shall be met:

- 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 GSM850 and PCS1900, 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:

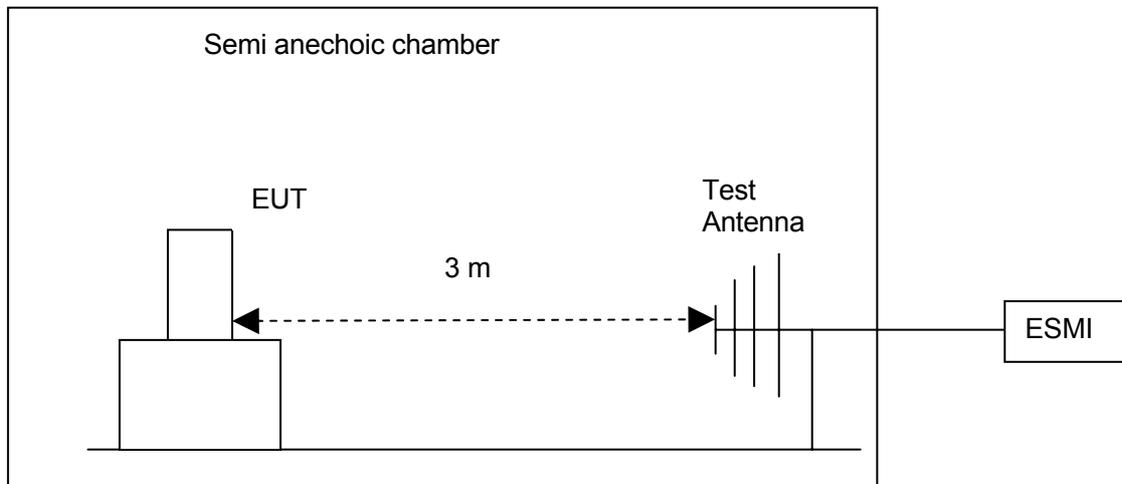


Figure 3. Test set-up

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.

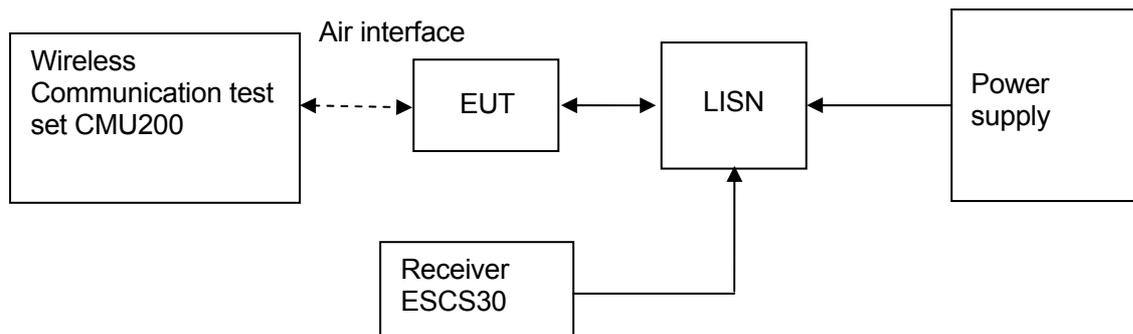


Figure 4. Test Set-up

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 μ V | 56~46 dB μ V |
| 0.5MHz~5MHz | 56 dB μ V | 46 dB μ V |
| 5MHz~30MHz | 60 dB μ V | 50 dB μ V |

5.3 Radiated Spurious Emissions

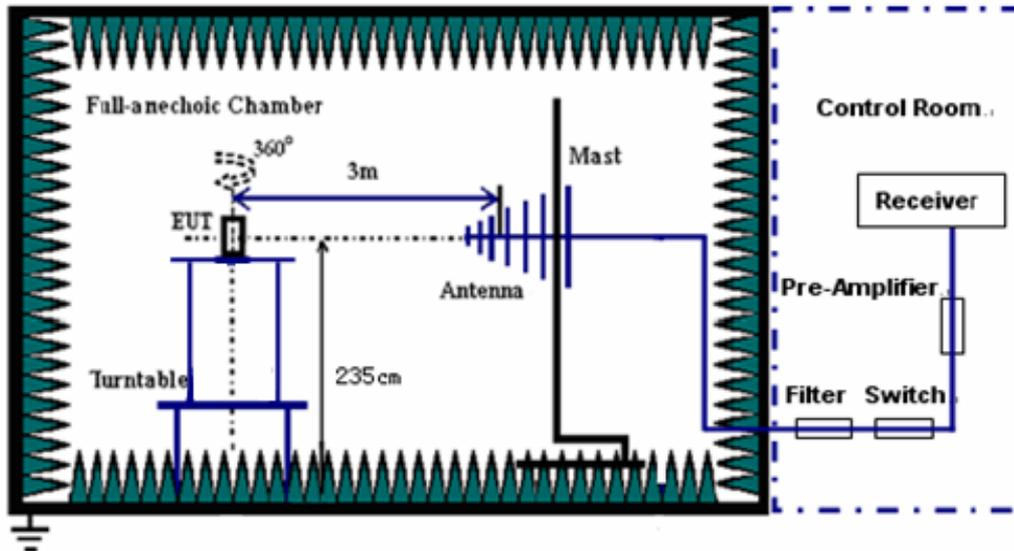
5.3.1 Test Procedure

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:

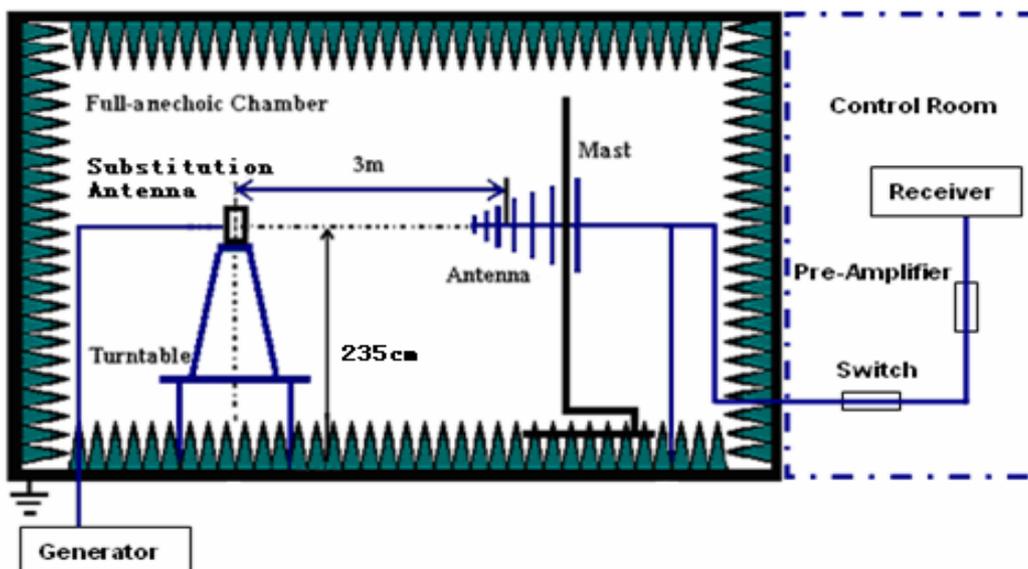
For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, EIRP shall be measured when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in 2.1033(c)(8). Connect 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 150 kHz: 1 kHz;
Measurement bandwidth (RBW) for 150 kHz up to 30 MHz: 10 kHz;
Measurement bandwidth (RBW) for 30 MHz up to 1 GHz: 100 kHz;
Measurement bandwidth (RBW) for 1GHz up to 18 GHz: 1MHz;

Table 10 Radiated Spurious Emissions Limits

| 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 11 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 FCC Part22/Part24 requirement.

6 Main Test Instruments

Table 12 Main Test Equipments

| Test item | Test Instrument | Model | Manufacturer | Cal-Date | Cal Interval (month) |
|----------------------|--------------------------|------------------|--------------|--------------|----------------------|
| RE | EMI Test receiver | ESMI | R&S | Apr.23, 2008 | 12 |
| | Broadband Antenna | CBL 6112B (2536) | SCHAFFNER | Jun.08, 2008 | 12 |
| CE | EMI Test receiver | ESCS30 | R&S | Apr.22, 2008 | 12 |
| | Artificial Mains Network | ENV4200 | R&S | May.12, 2008 | 12 |
| RSE | EMI Test receiver | ESIB26 | R&S | May.30, 2008 | 12 |
| | Horn Antenna | 3117 | ETS-LINDGREN | Jul.16, 2008 | 12 |
| | Broadband Antenna | CBL6112B (2747) | SCHAFFNER | Oct.17,2008 | 12 |
| | Horn Antenna | 3160 | ETS-LINDGREN | Aug.03,2008 | 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:

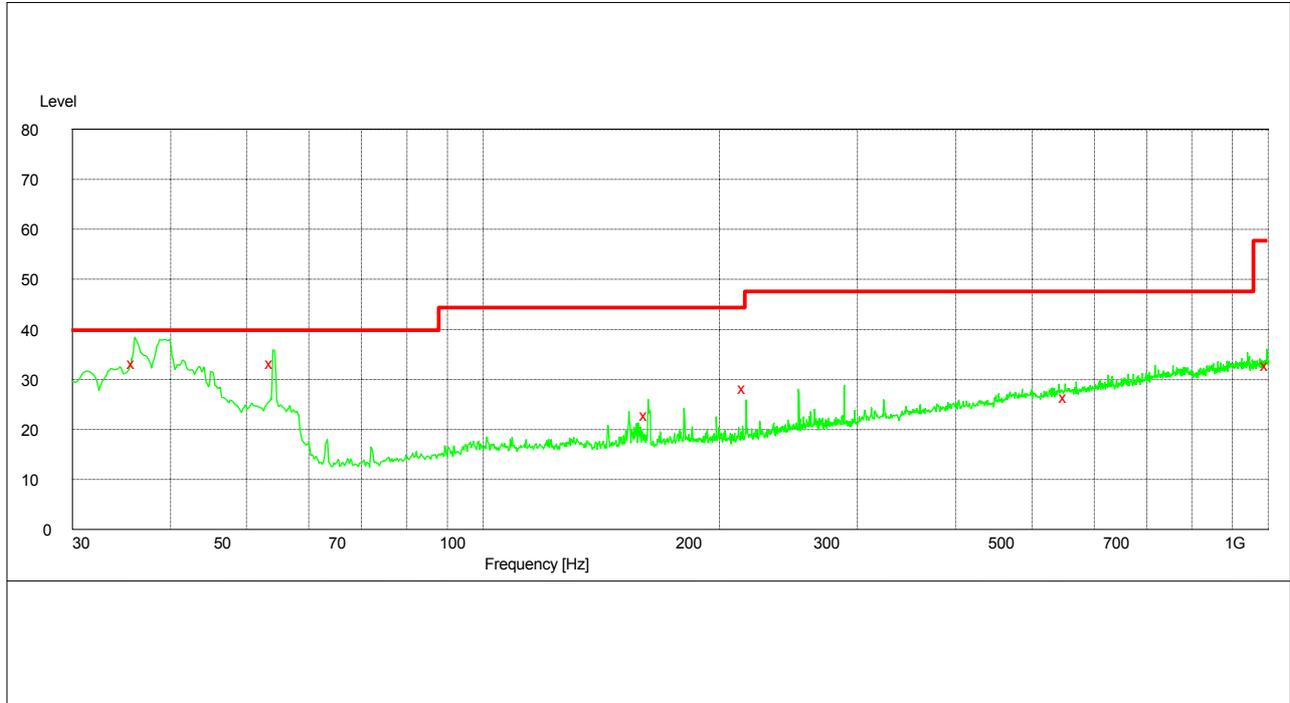
Table 13 System Measurement Uncertainty

| | Items | Extended Uncertainty |
|-----|----------------------------------|-----------------------------|
| RE | Field strength (dB μ V/m) | U=4.6dB; k=2(30MHz-1GHz) |
| RSE | ERP (dBm) | U=2.2dB; k=2 |
| CE | Disturbance Voltage (dB μ 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.



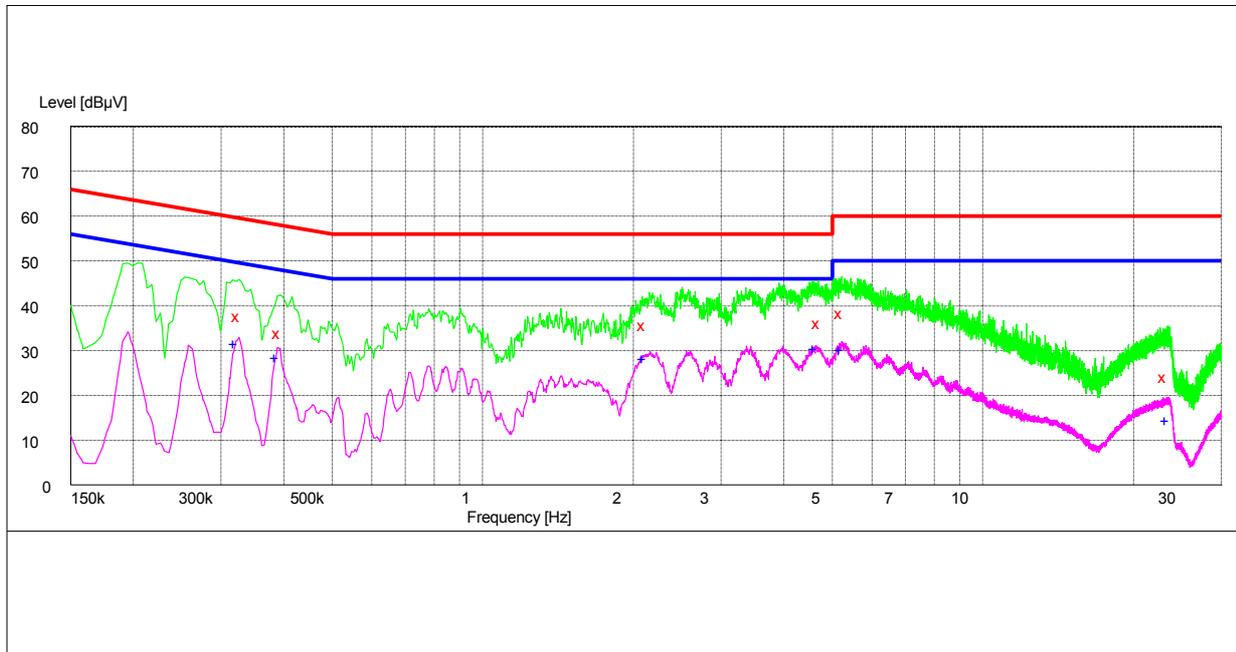
MEASUREMENT RESULT: QP Detector

| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Height cm | Azimuth deg | Polarisation |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|--------------|
| 36.000000 | 33.40 | -9.3 | 40.0 | 6.6 | 100.0 | 357.00 | VERTICAL |
| 54.000000 | 33.30 | -17.0 | 40.0 | 6.7 | 107.0 | 24.00 | VERTICAL |
| 162.000000 | 23.00 | -14.2 | 43.5 | 17 | 107.0 | 285.00 | VERTICAL |
| 215.890000 | 28.40 | -12.9 | 43.5 | 11.6 | 132.0 | 226.00 | HORIZONTAL |
| 554.160000 | 27.60 | -3.8 | 46.0 | 19.4 | 219.0 | 29.00 | VERTICAL |
| 999.120000 | 32.70 | 2.8 | 54.0 | 14.3 | 157.0 | 360.00 | VERTICAL |

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 |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.325500 | 38.00 | 10.1 | 60 | 22 | N | GND |
| 0.393000 | 34.10 | 10.0 | 58 | 23.9 | N | GND |
| 2.107500 | 35.90 | 10.1 | 56 | 20.1 | L3 | GND |
| 4.717500 | 36.50 | 10.1 | 56 | 19.5 | L3 | GND |
| 5.221500 | 38.70 | 10.2 | 60 | 21.3 | N | GND |
| 23.199000 | 24.50 | 10.4 | 60 | 35.5 | N | GND |

MEASUREMENT RESULT: AV Detector

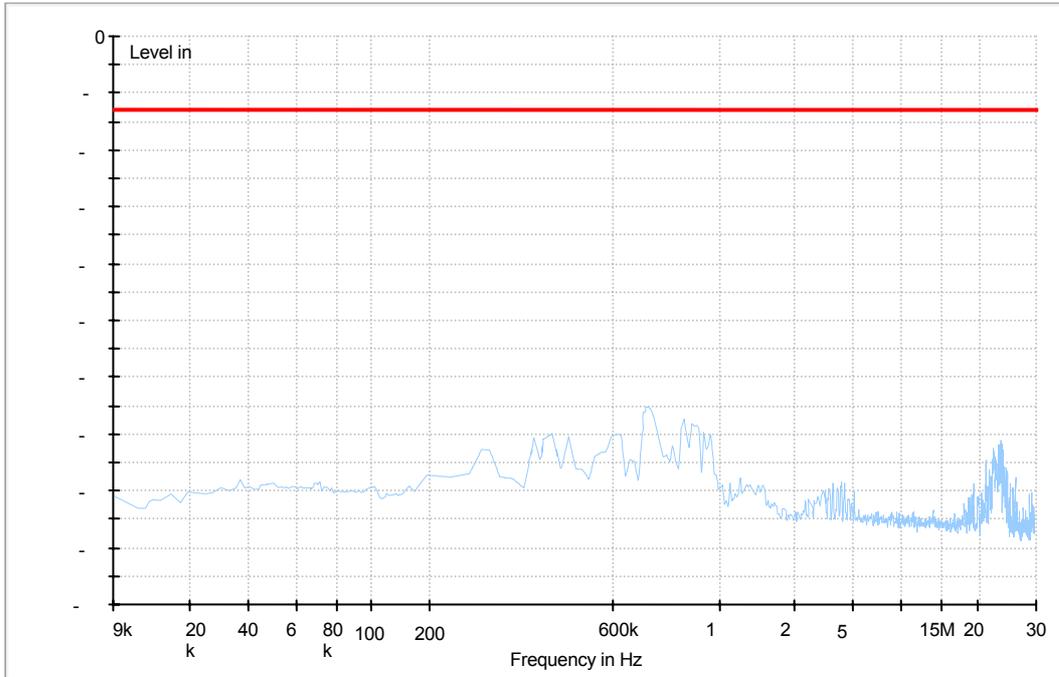
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.321000 | 31.80 | 10.1 | 50 | 18.2 | N | GND |
| 0.388500 | 28.70 | 10.0 | 48 | 19.3 | N | GND |
| 2.107500 | 28.40 | 10.1 | 46 | 17.6 | N | GND |
| 4.636500 | 30.60 | 10.1 | 46 | 15.4 | N | GND |
| 5.217000 | 30.50 | 10.2 | 50 | 19.5 | L3 | GND |
| 23.437500 | 14.70 | 10.4 | 50 | 35.3 | N | GND |

8.3 Radiated Spurious Emission

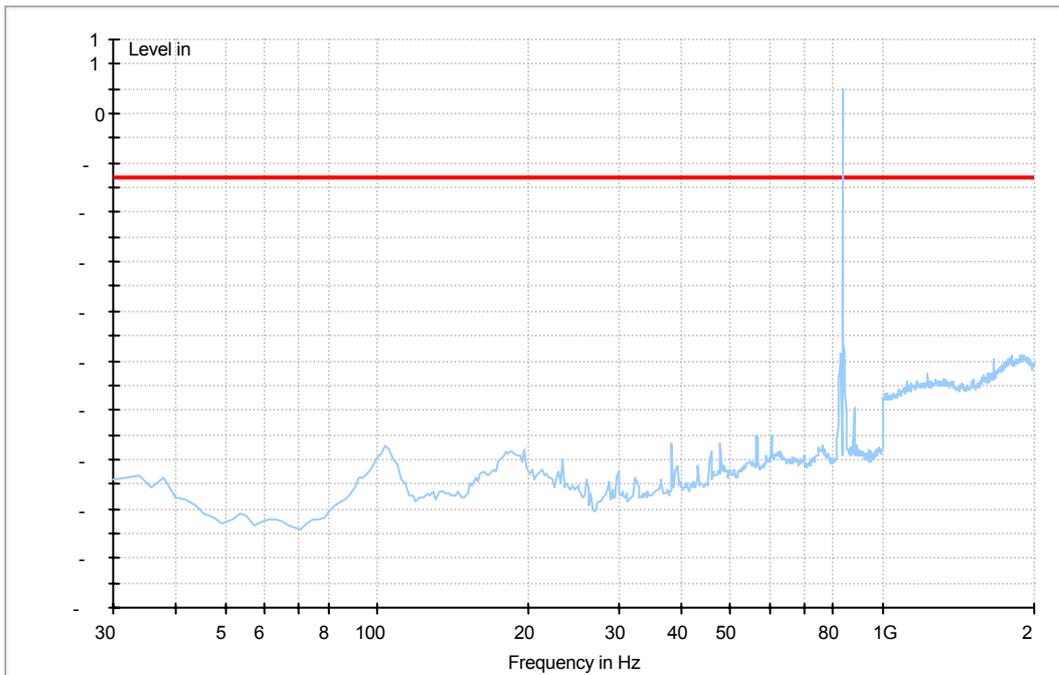
This test results are the maximum level of radiated spurious emissions in vertical and horizontal polarity.

8.3.1 For GSM 850

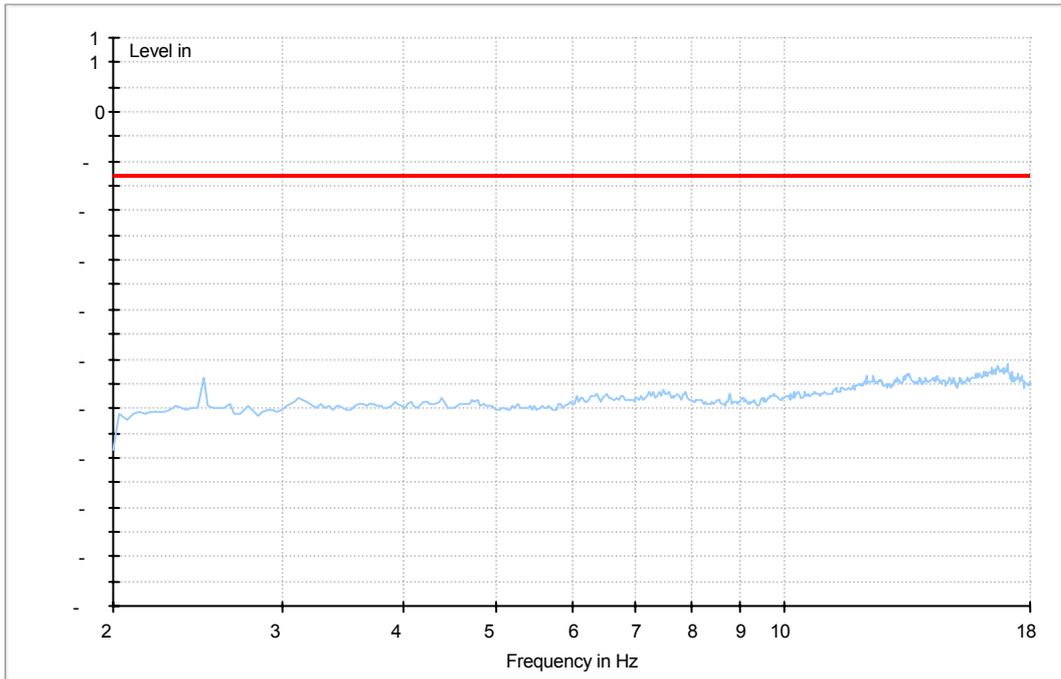
Traffic Mode (9kHz-30MHz)



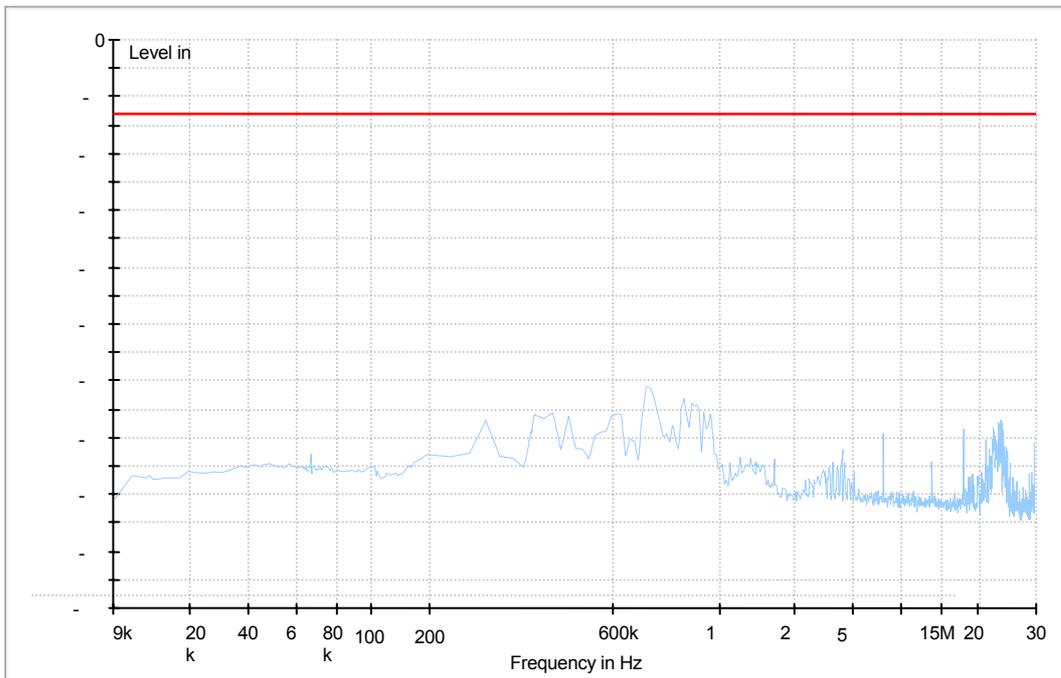
Traffic Mode (30MHz-2GHz)



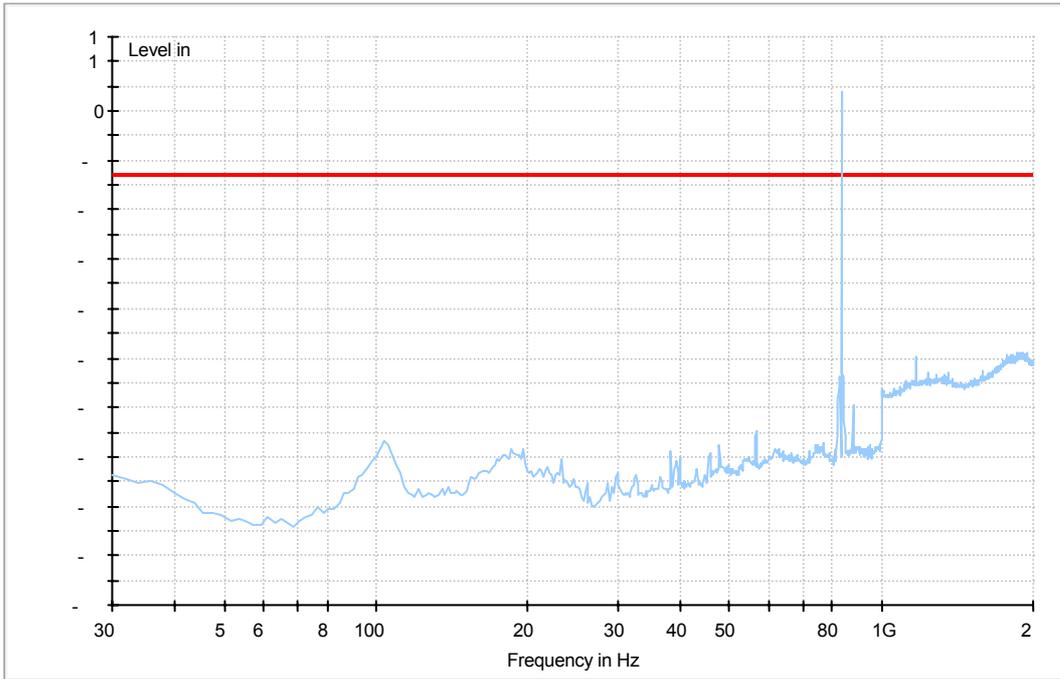
Traffic Mode (2GHz-18GHz)



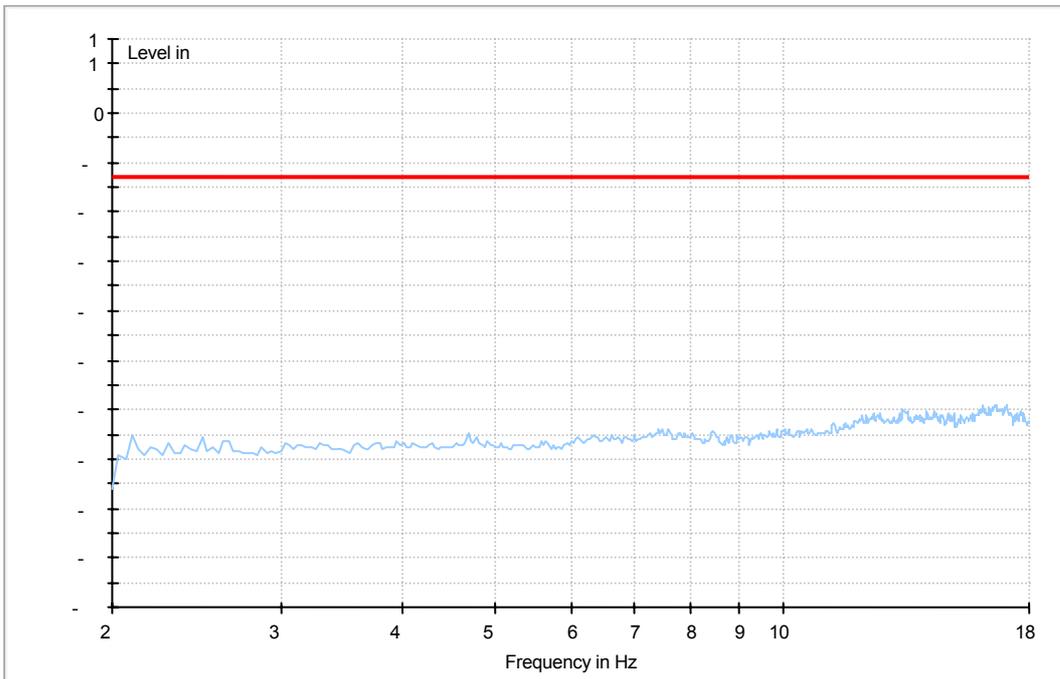
8.3.2 For EGPRS 850
Traffic Mode (9kHz-30MHz)



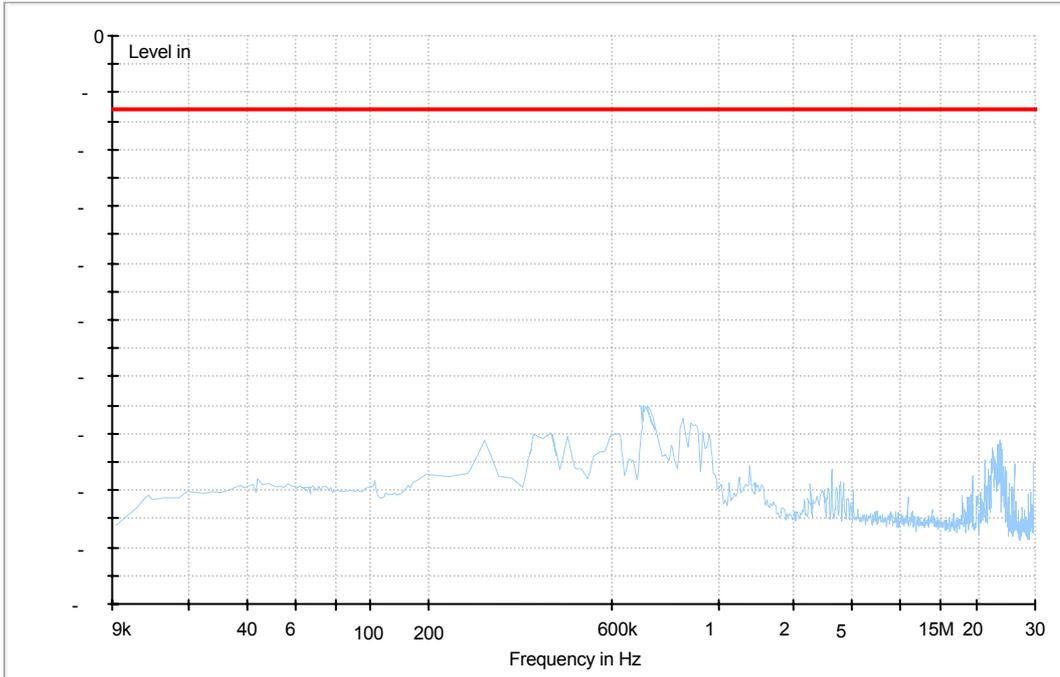
Traffic Mode (30MHz-2GHz)



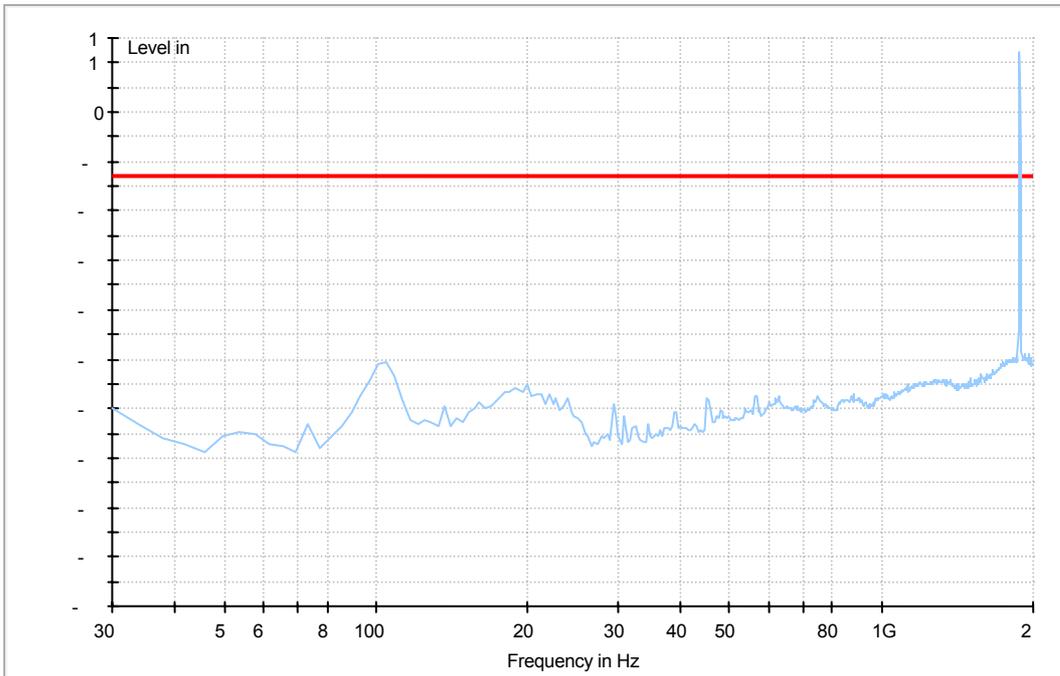
Traffic Mode (2GHz-18GHz)



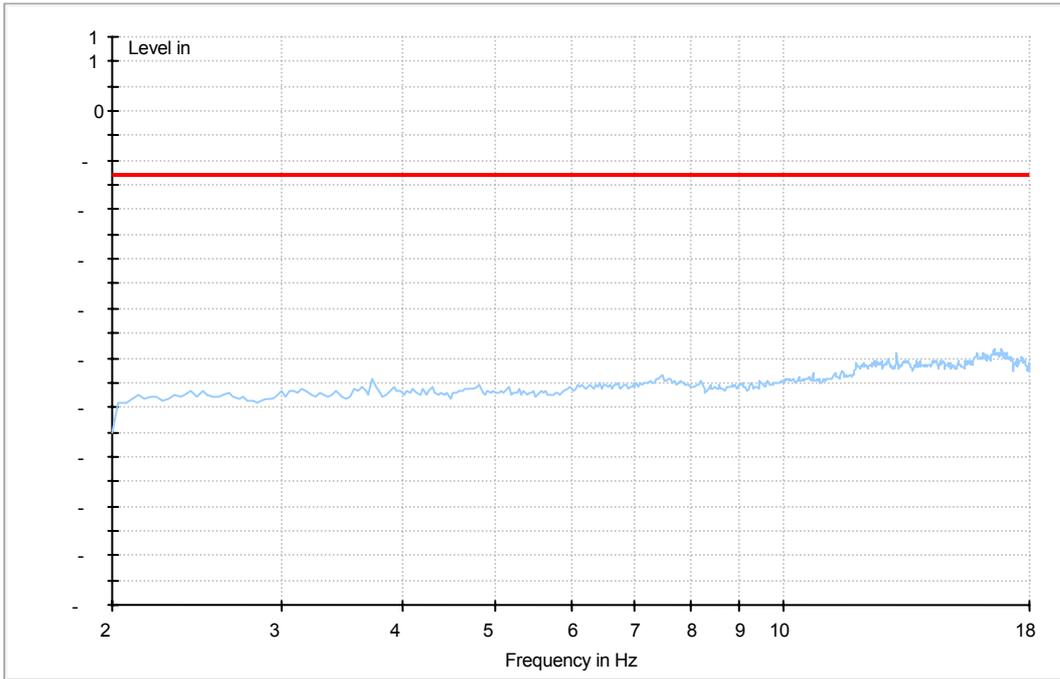
8.3.3 For GSM 1900 Traffic Mode (9kHz-30MHz)



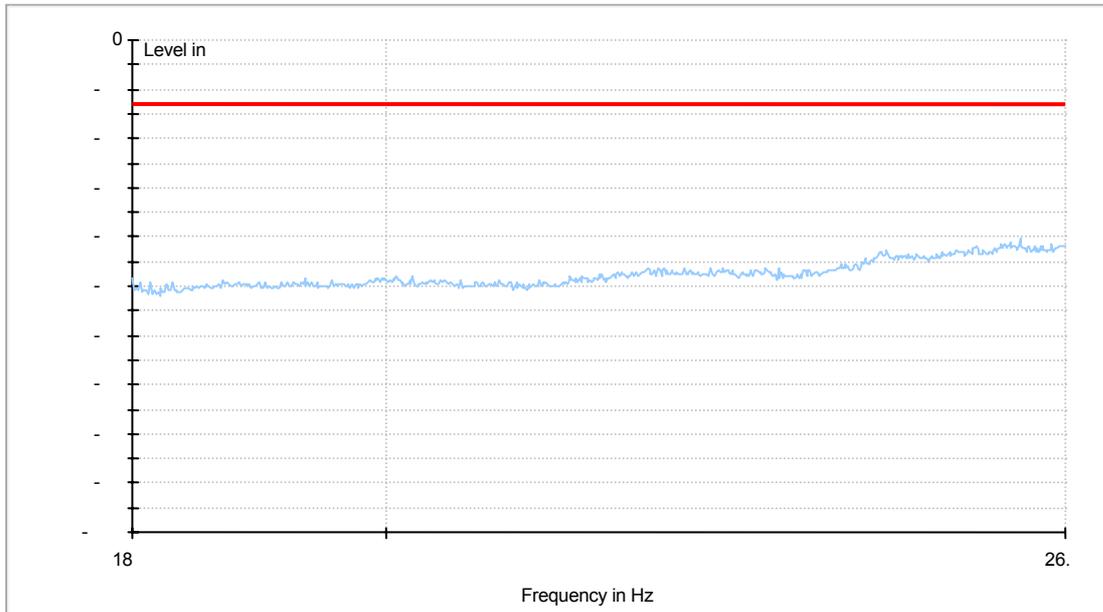
Traffic Mode (30MHz-2GHz)



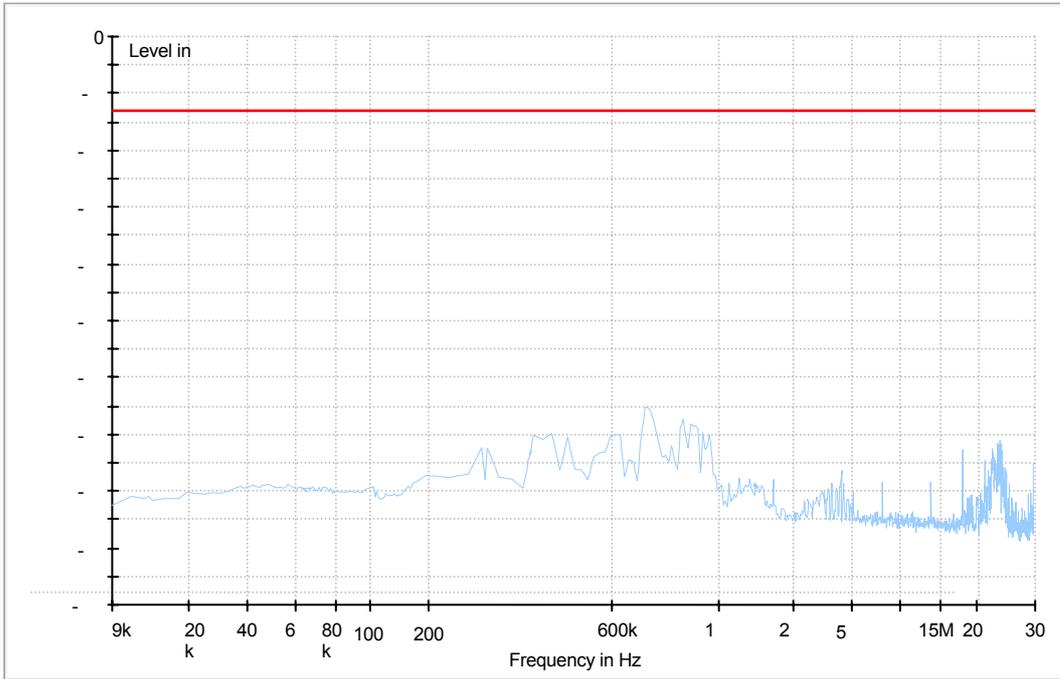
Traffic Mode (2GHz-18GHz)



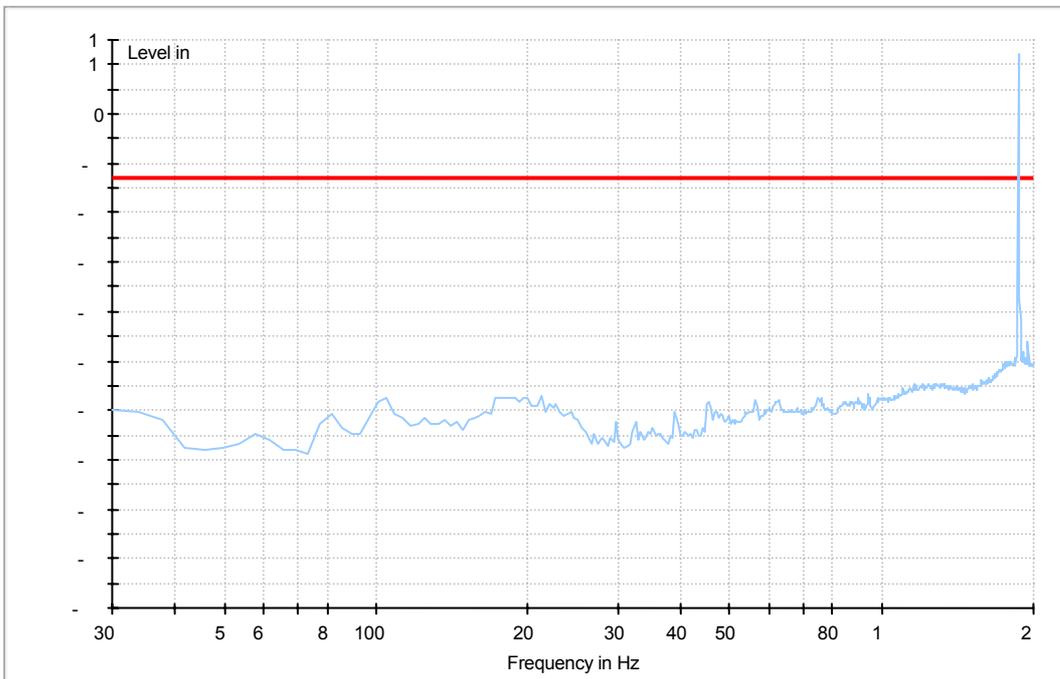
Traffic Mode (18GHz-26.5GHz)



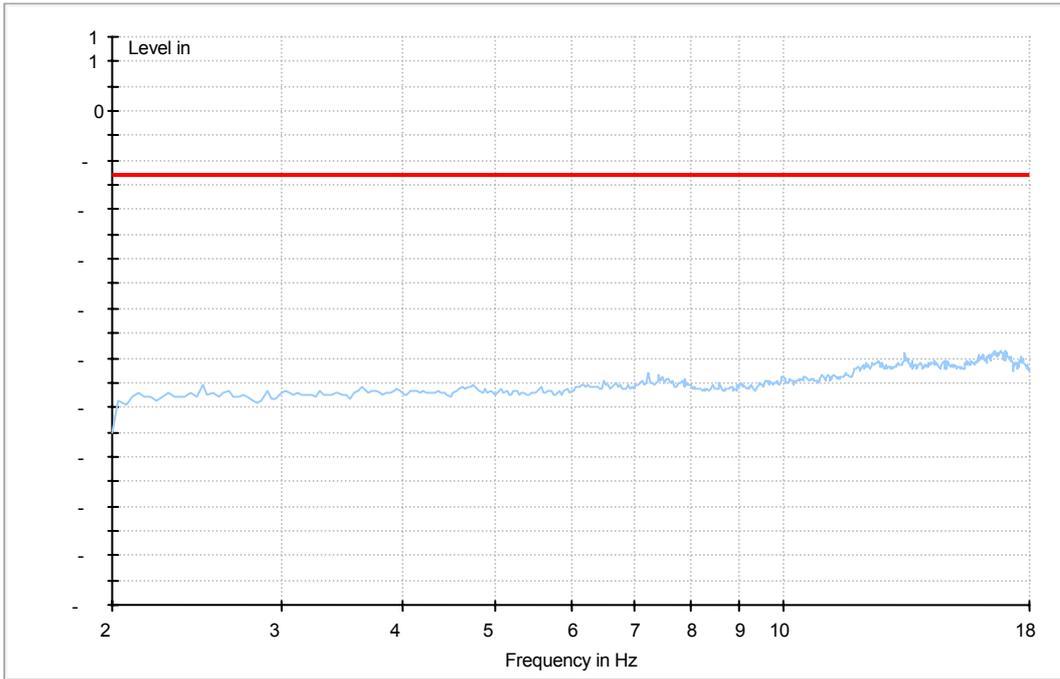
8.3.4 For EGPRS 1900 Traffic Mode (9kHz-30MHz)



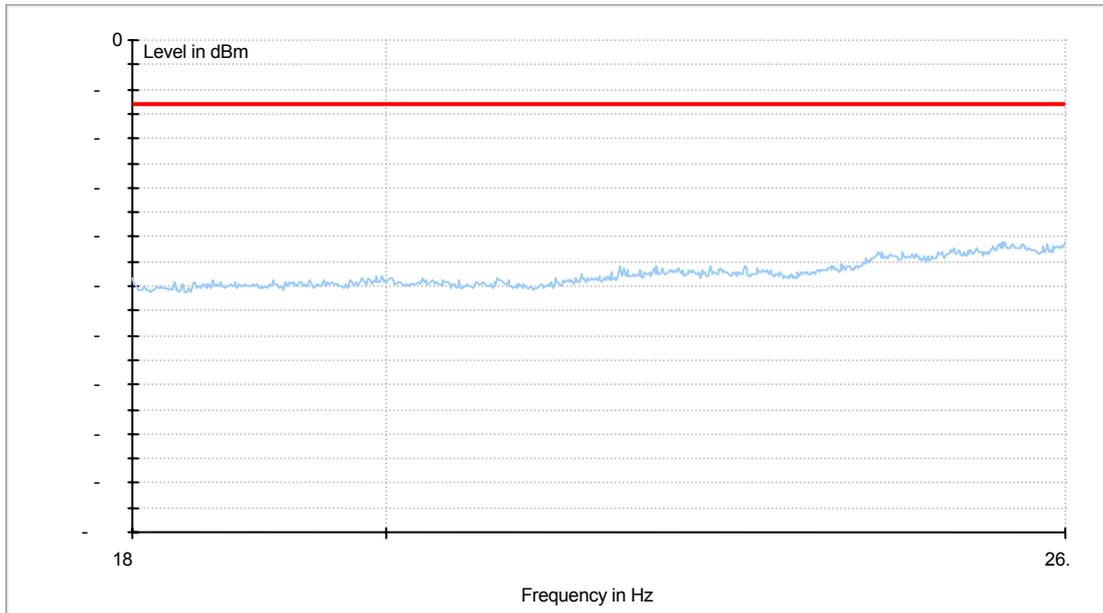
Traffic Mode (30MHz-2GHz)



Traffic Mode (2GHz-18GHz)

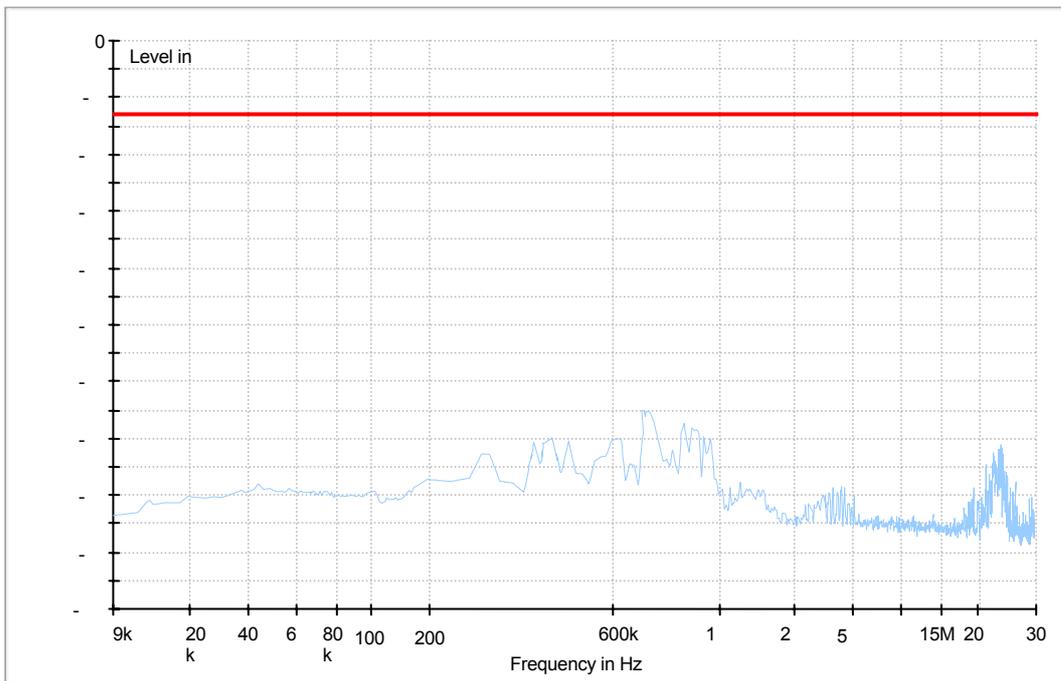


Traffic Mode (18GHz-26.5GHz)

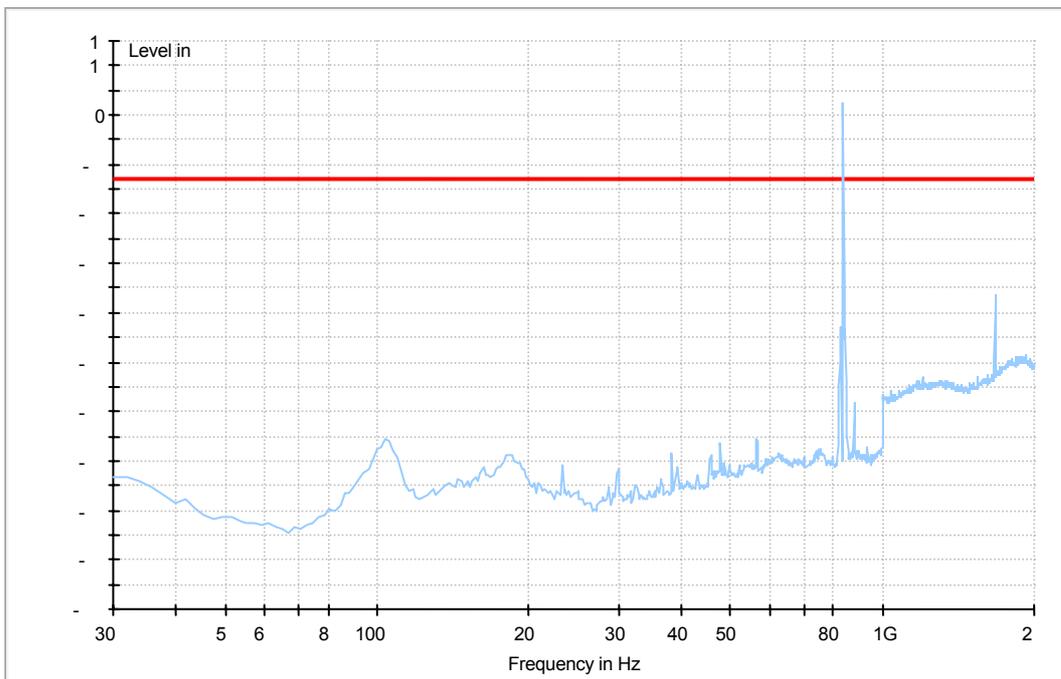


8.3.5 For WCDMA BAND V

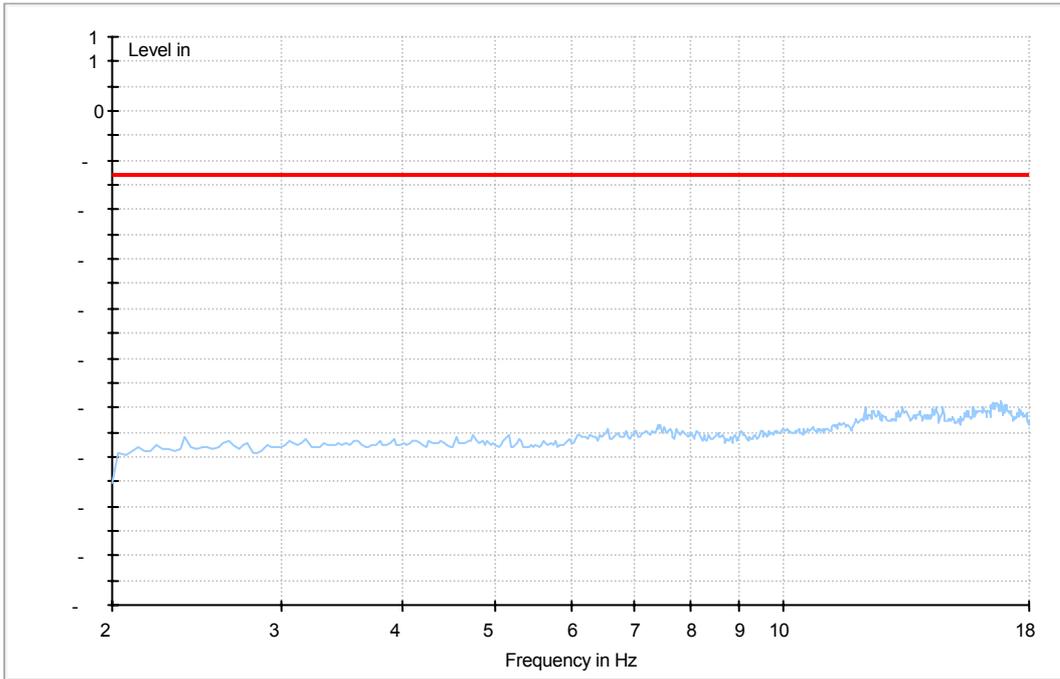
Traffic Mode (9kHz-30MHz)



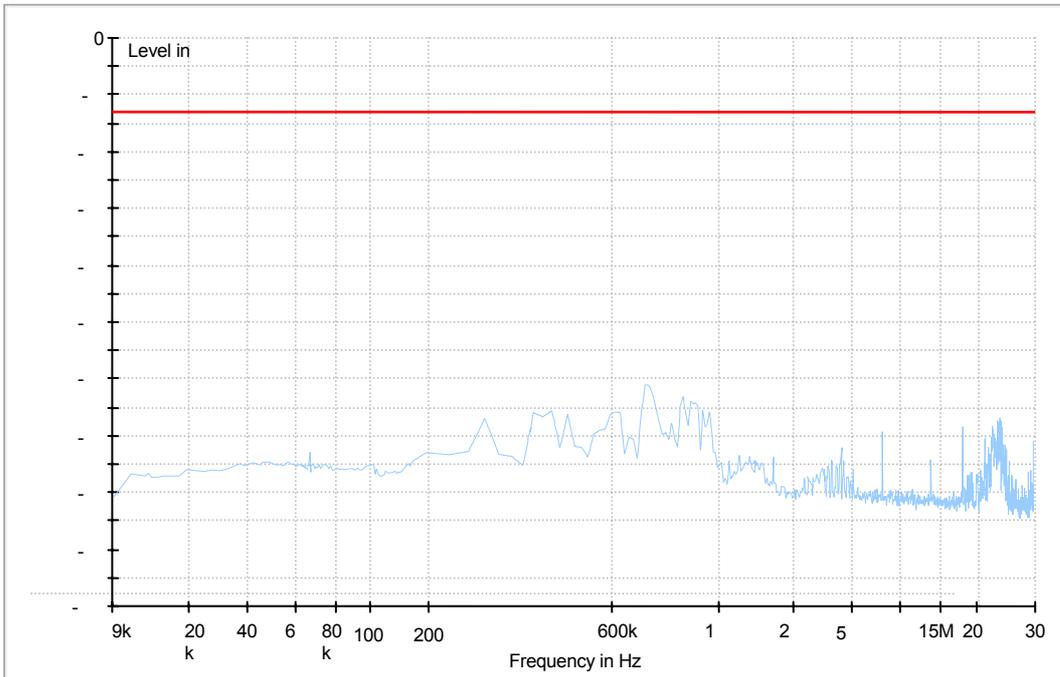
Traffic Mode (30MHz-2GHz)



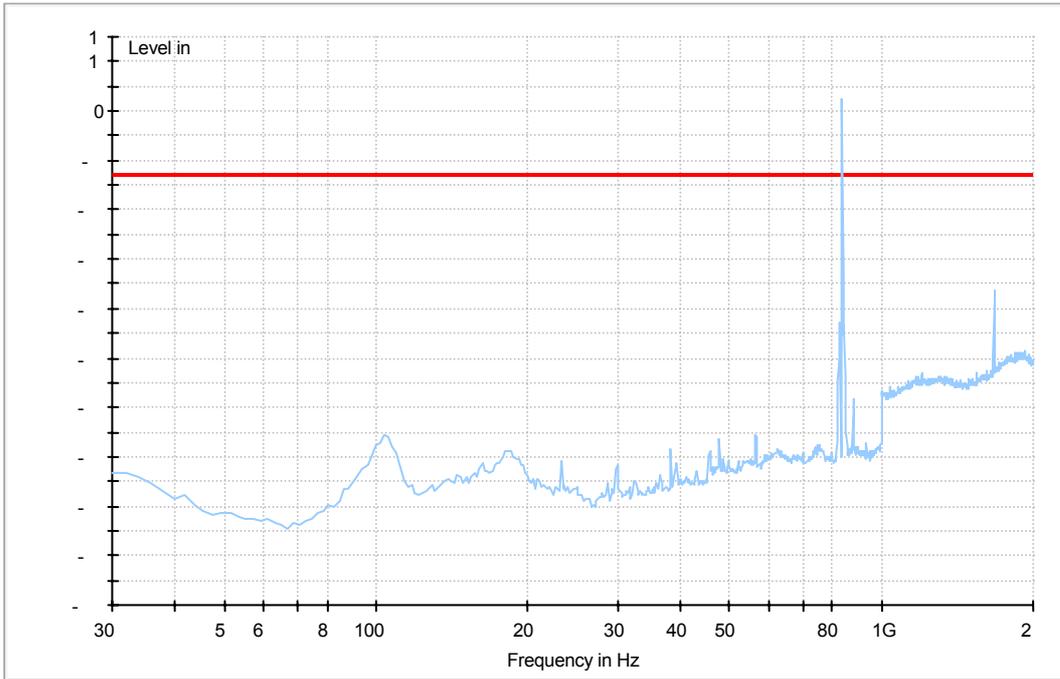
Traffic Mode (2GHz-18GHz)



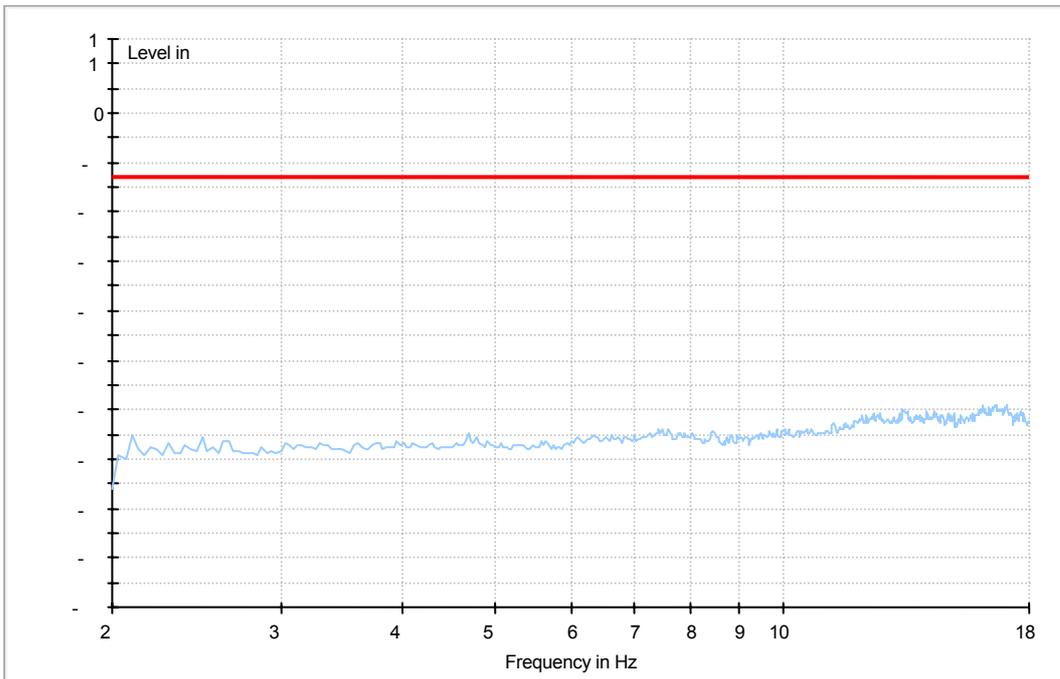
8.3.6 For HSDPA BANDV
Traffic Mode (9kHz-30MHz)



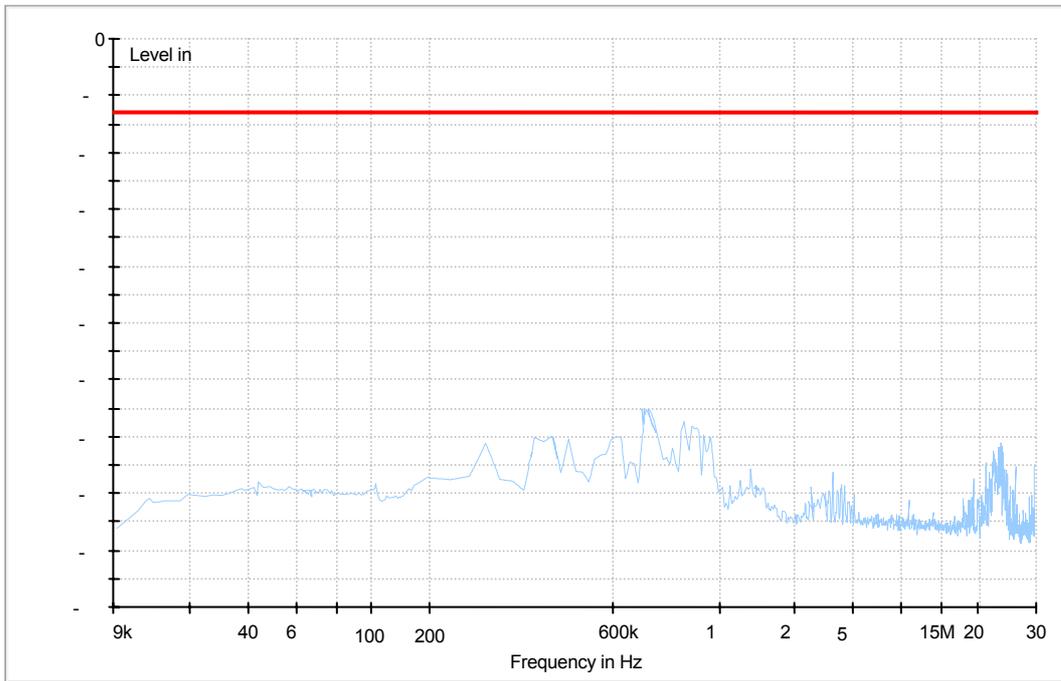
Traffic Mode (30MHz-2GHz)



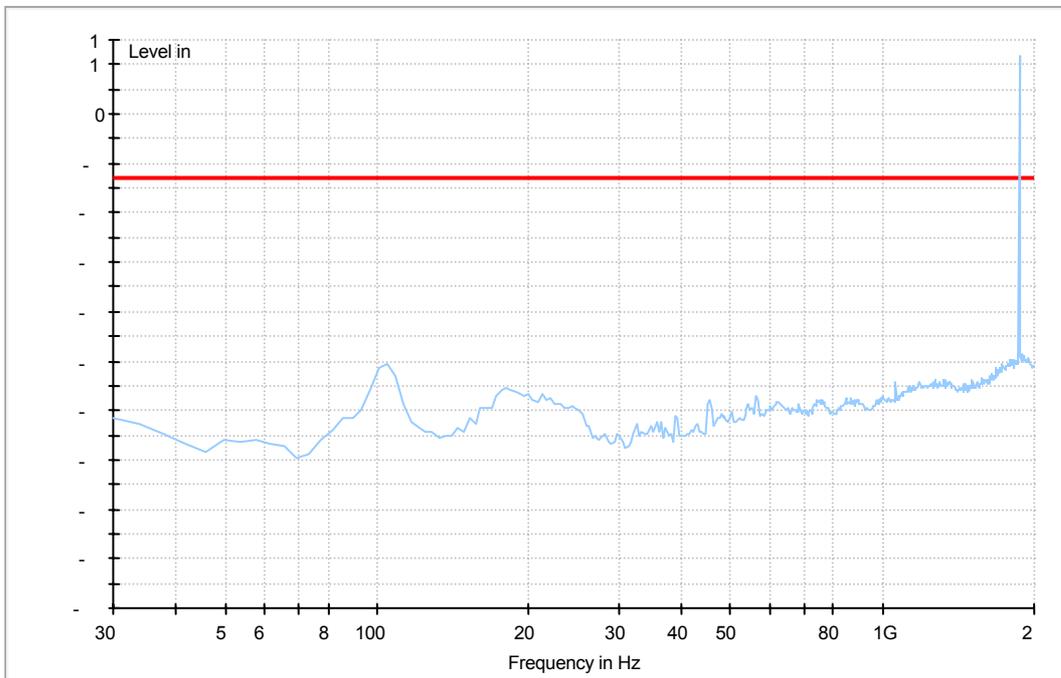
Traffic Mode (2GHz-18GHz)



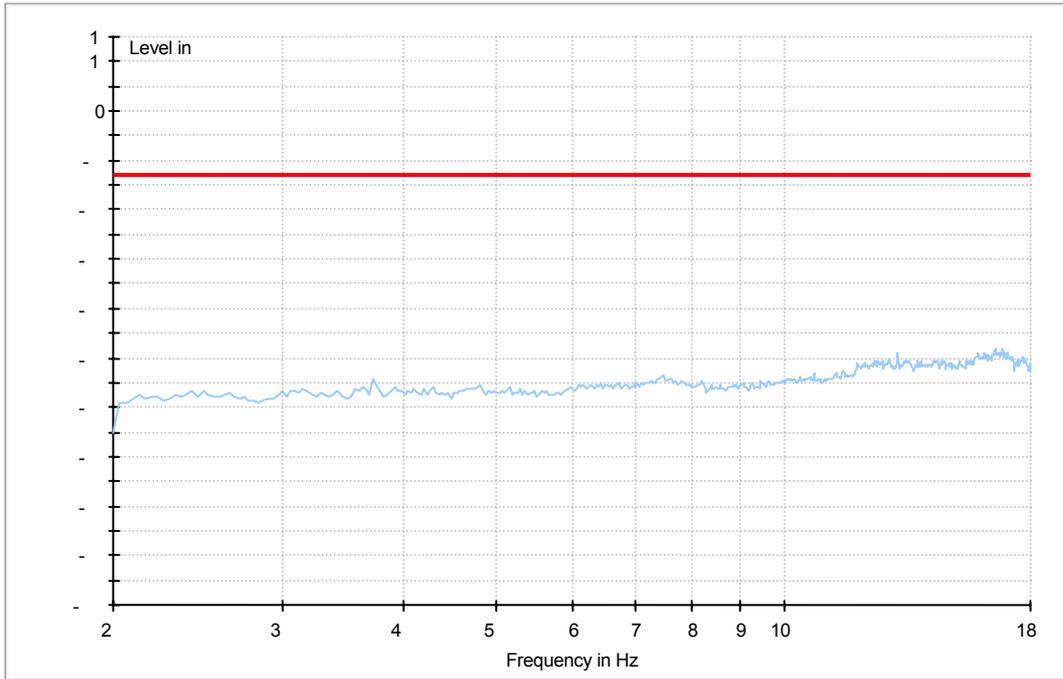
8.3.7 For WCDMA BANDII Traffic Mode (9kHz-30MHz)



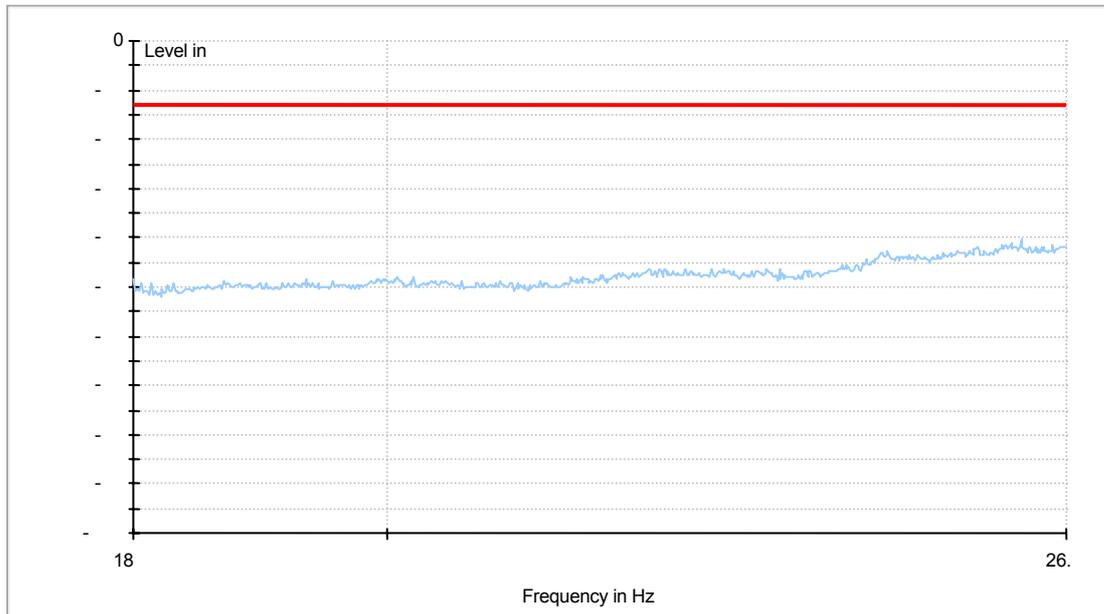
Traffic Mode (30MHz-2GHz)



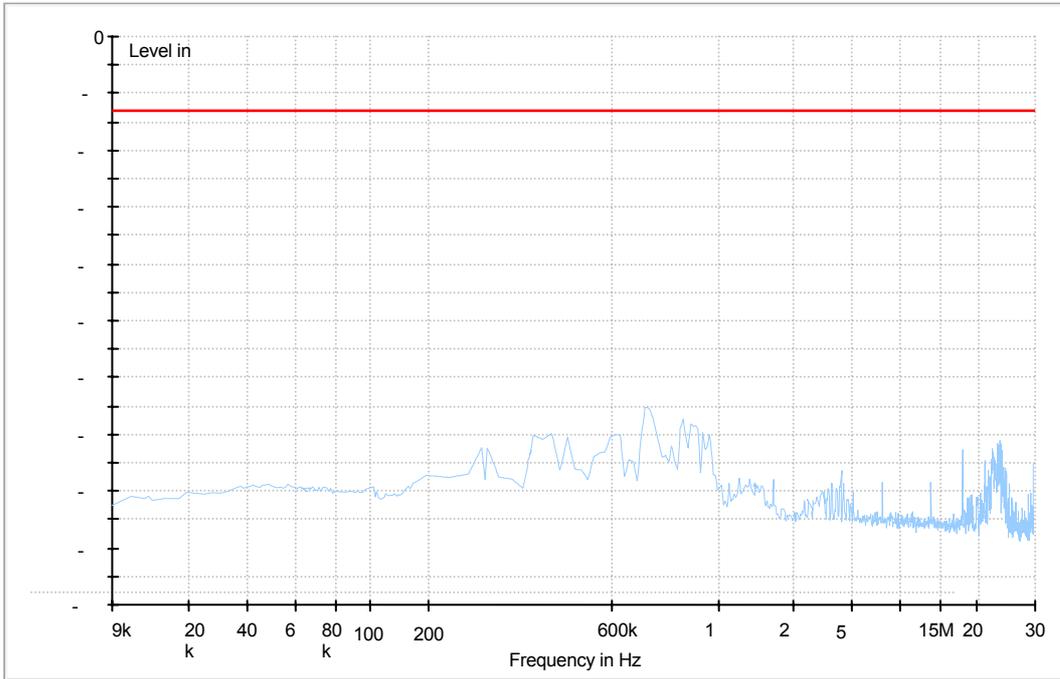
Traffic Mode (2GHz-18GHz)



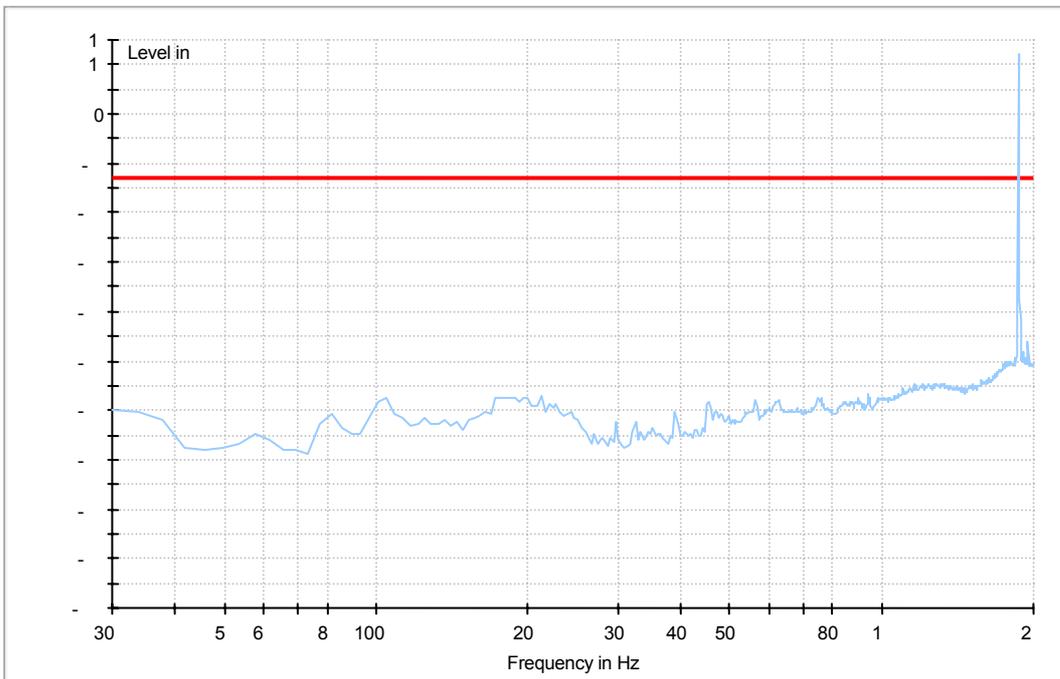
Traffic Mode (18GHz-26.5GHz)



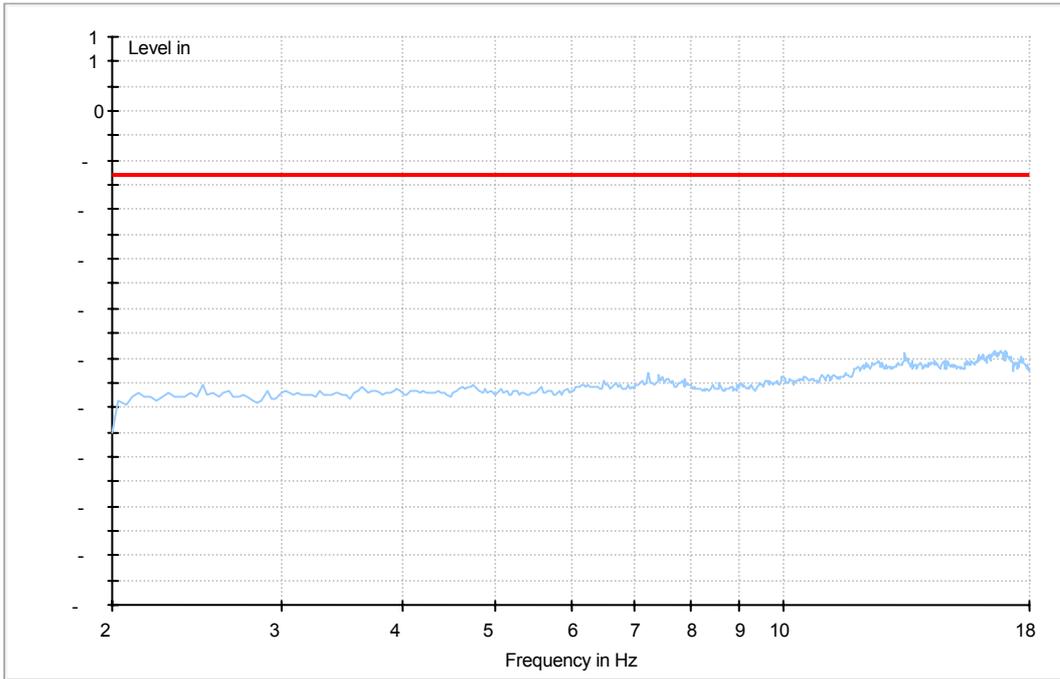
8.3.8 For HSDPA BANDII Traffic Mode (9kHz-30MHz)



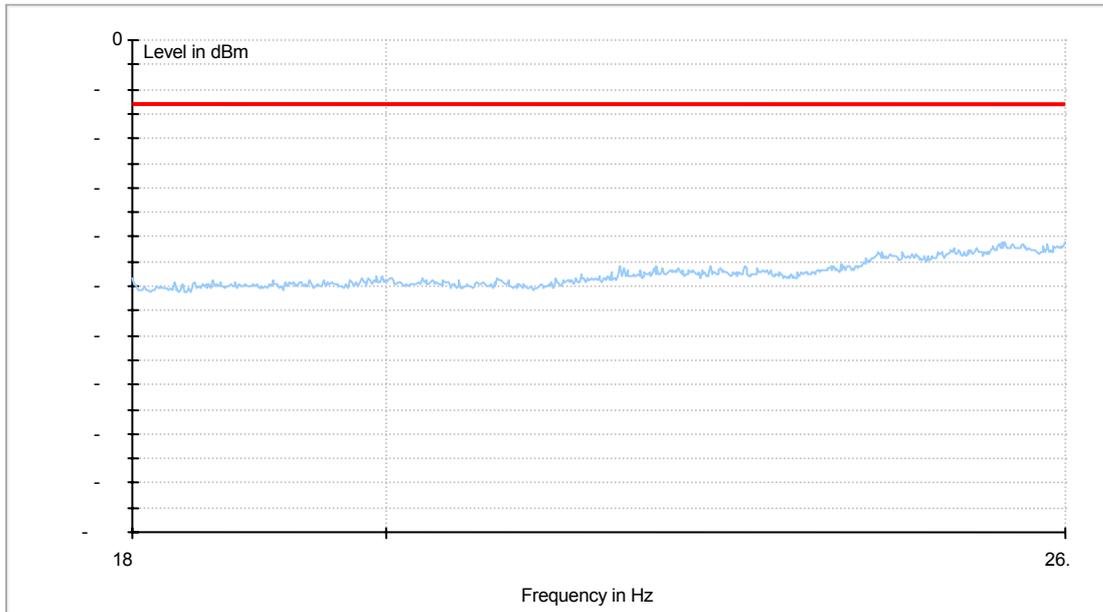
Traffic Mode (30MHz-2GHz)



Traffic Mode (2GHz-18GHz)



Traffic Mode (18GHz-26.5GHz)



END