



EMC Test Report

Product Name: IDEOS S7 Slim

Model Number: S7-202u

Report No: SYBH-Z(EMC)019022011-2

FCC ID: QISS7-202U

IC ID:6369A-S7202U

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Notice 1

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Notice 2

Modification Information:

Modification Information

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

REPORT ON	EMC TEST OF IDEOS S7 Slim
	M/N: S7-202u
REGULATION	FCC CFR47 Part 15: Subpart B;
	CAN/CSA-CEI/IEC CISPR 22;
	FCC CFR47 Part 22: Subpart H;
	FCC CFR47 Part 24: Subpart E;
	RSS-Gen;
	RSS-132;
	RSS-133
START OF TEST	Feb.18, 2011
END OF TEST	Feb.25, 2011
Final Judgement:	Pass

Approved By 2011-02-27 Liuchunlin *Liuchunlin*
 Date Name Signature

Reviewed By 2011-02-27 Dailinjun *Dailinjun*
 Date Name Signature

Operator 2011-02-26 Wenjianfeng *Wenjianfeng*
 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	IDEOS S7 Slim
MANUFACTURERS MODEL NUMBER	S7-202u

1.2 Test Site

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

1.3 Test environment condition

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

2 Summary of Results

Table below shows a brief summary of the results obtained.

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 (TM13-TM24)	N/A	Pass	Site1
<u>Conducted Emissions</u>	TC1 (TM1-TM24)	N/A	Pass	Site1
<u>Radiated Spurious Emissions</u> Enclosure Port	TC1 (TM1-TM12)	N/A	Pass	Site1
Receiver Spurious Emission	TC1 (TM13~TM24)	N/A	Pass	Site1

Note:
1, Measurement taken is within the measurement uncertainty of measurement system.
2, TC = Test configuration

3 Equipment Specification

3.1 General Description

HSDPA/HSUPA/UMTS/GPRS/GSM/EDGE information terminal IDEOS S7 Slim with Bluetooth and Wi-Fi is subscriber equipment in the WCDMA/GSM system. The HSDPA/HSUPA/UMTS frequency band is /Band I / Band II/Band V. The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900. BandII/Band V/GSM 850/ PCS 1900 test data included in the report. IDEOS S7 Slim provides convenient and quality services such as picture, audio, video, network, and information base on the Android™ open operating system ,the S7 Slim serves a powerful tool to obtain quality network and multimedia services conveniently, rendering entertainment to users' work and life.The S7 Slim has a stylish appearance and a portable design. With a full touchscreen, an ultra-thin design, the S7 Slim presents a stylish and technically appealing appearance.

Main Equipment Technical Data

Description:	IDEOS S7 Slim
Models:	S7-202u
Input Rated Voltage:	5V
Extreme Voltage	4.75V and 5.25V
Rated Power	<6W
Dimensions	About 200mm (Length)×109.5mm (Width)×12.5mm (Height)
Weight	About 0.45Kg

Sub-Assembly Identity

Mode		Work Frequency	
		Transmitt Frequency (MHz)	Receive Frequency (MHz)
GSM	GSM850	824 - 849	869 - 894
	PCS1900	1850-1910	1930-1990
WCDMA	WCDMA850	824-849	869-894
	WCDMA1900	1850-1910	1930-1990
Bluetooth		2400-2483.5	
WIFI		2400-2483.5	

3.2 Sub-Assembly Identity

Sub-Assembly Identity

Board				
Model Name	Qty.	Hardware Version	Description	
	1	HIDS70IM	Main Board	
	1	HIDS70HA	Interface Board	
	1	HIDS70CC	Soft Board Begin the Main Board and the Auxiliary Board	
	1	HIDS70PA	boot-strap soft board	
	1	HIDS70VL	volume soft board	
	1	HIDS70SL	left speaker soft board	
	1	HIDS70SR	right speaker soft board	
	1	LCD Panel	LCD Panel	
Accessory				
Name	Qty.	Manufacture	Serials number	Description
Adapter	1	SHENZHEN FRECOM	F0288SAR	Model:FPS012USA-050200 Input voltage: 100V~240V AC and 50/60 Hz,0.3A Output voltage: +5V --- 2A
S7-SLIM DOCK	1	Huawei Technologies Co.,Ltd.		S7-201D
Rechargeable Li-ion	1	Huawei Technologies Co.,Ltd.	LGCAC30HI5308366	Battery Model: HB4G1H Rated capacity: 3200 mAh 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

Cable Used during Test

Cable	Quantity	Type of Cable
AC Power	1	Unshielded
HDMI	1	shielded
Earphone	1	Unshielded

4.2 Associated Equipment Used during Test

Associated Equipment Used during Test

Name	Model	Manufacturer	S/N	Cal Date
Radio Communication Tester	CMU200	R&S	1117057	2010-08-04
Notebook	D630	DELL	0W7349	N/A
Television	KLV-20S400A	SONY	5017657	N/A

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:EUT powered with an adapter and connected to the test system (Base Station Simulator).

Configuration table

TC1	TM1~TM24
-----	----------

4.3.2 Test Mode

There were 24 test Modes. TM1 to TM24 were shown in the diagrams below:

TM1	operate in traffic mode GSM850;
TM2	operate in traffic mode GSM1900;
TM3	operate in traffic mode GPRS850;
TM4	operate in traffic mode GPRS 1900;
TM5	operate in traffic mode EDGE850;
TM6	operate in traffic mode EDGE1900;
TM7	operate in traffic mode WCDMA 850
TM8	operate in traffic mode HSDPA 850
TM9	operate in traffic mode HSUPA 850
TM10	operate in traffic mode WCDMA 2100
TM11	operate in traffic mode HSDPA 2100
TM12	operate in traffic mode HSUPA 2100
TM13	operate in idle mode GSM850;
TM14	operate in idle mode GSM1900;
TM15	operate in idle mode GPRS850;
TM16	operate in idle mode GPRS 1900;
TM17	operate in idle mode EDGE850;

TM18	operate in idle mode EDGE1900;
TM19	operate in idle mode WCDMA 850
TM20	operate in idle mode HSDPA 850
TM21	operate in idle mode HSUPA 850
TM22	operate in idle mode WCDMA 1900
TM23	operate in idle mode HSDPA 1900
TM24	operate in idle mode HSUPA 1900

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.

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 GSM850 and 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.

Please refer to following figure:

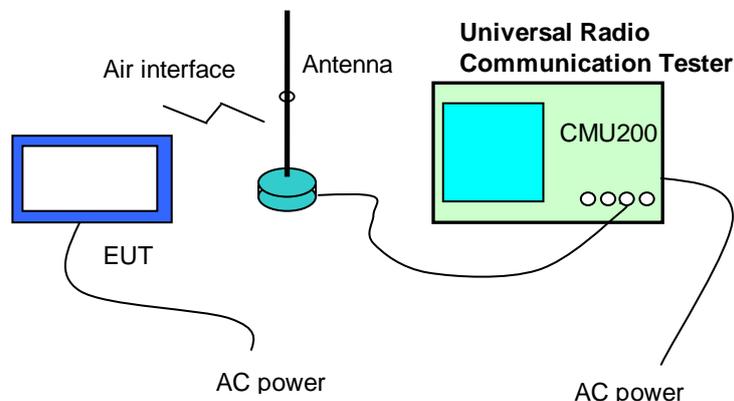


Figure 1.: Test Configuration

Idle Mode:

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:

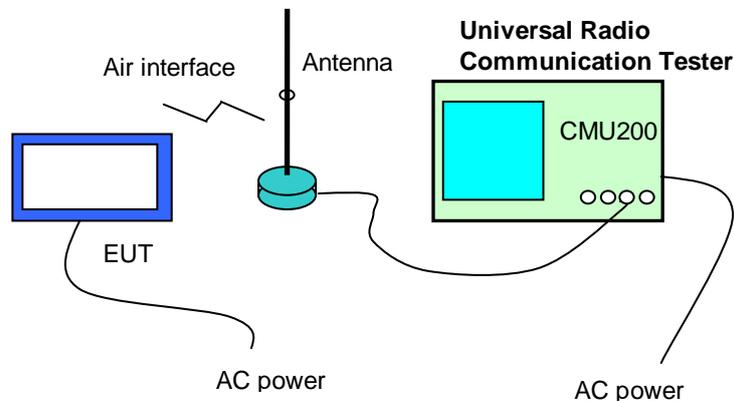


Figure 2. Test Configuration

5 Electromagnetic Interference (EMI)

5.1 Radiated Disturbance 30MHz to 18GHz

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. The test distance was 3m. The set-up and test methods were according to ANSI C63.4.

A preliminary scan and a final scan of the emissions were made from 30 MHz to 18 GHz by using test script of software; the emissions were measured using Quasi-Peak Detector (30MHz~1GHz) and AV detector (above 1GHz). 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.

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

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

Measurement bandwidth: 1GHz – 18GHz: 1MHz

Test set up figure:

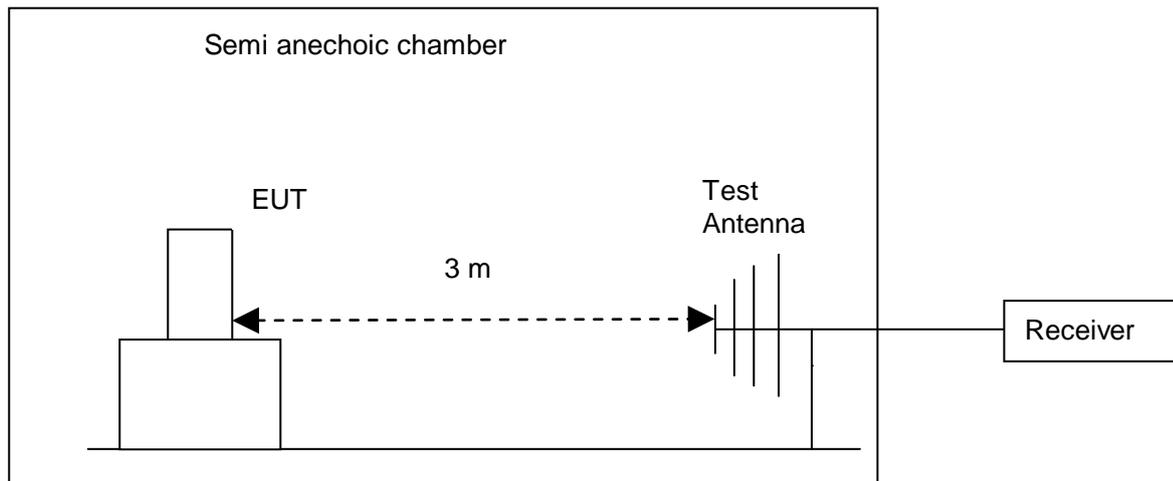


Figure 3. Test set-up

5.1.2 Test Results

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

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
Above 960	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.

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.

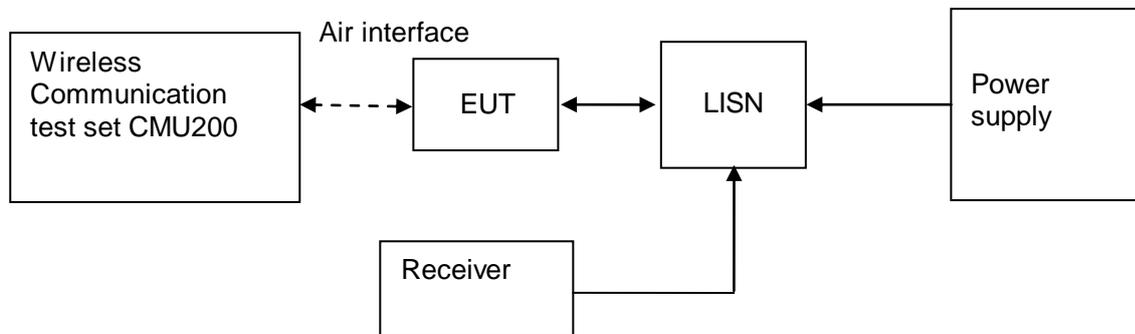


Figure 4. Test Set-up

5.2.2 Test Results

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

Test Limit of 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

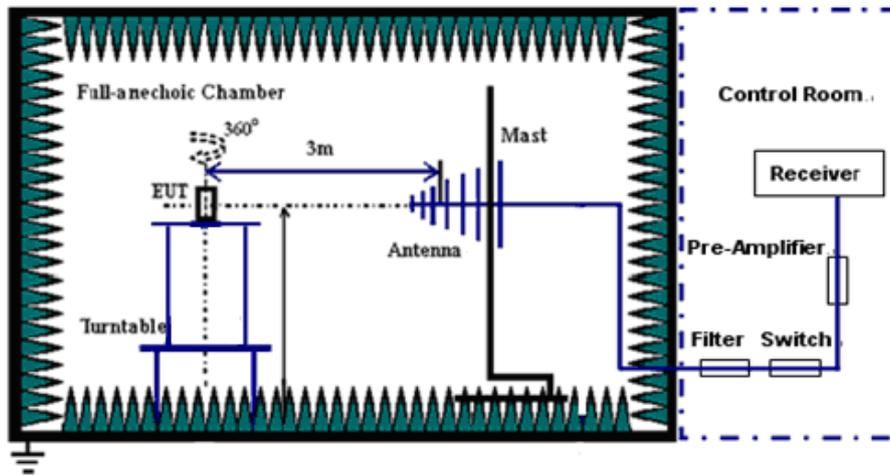
5.3.1 Test Procedure

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:

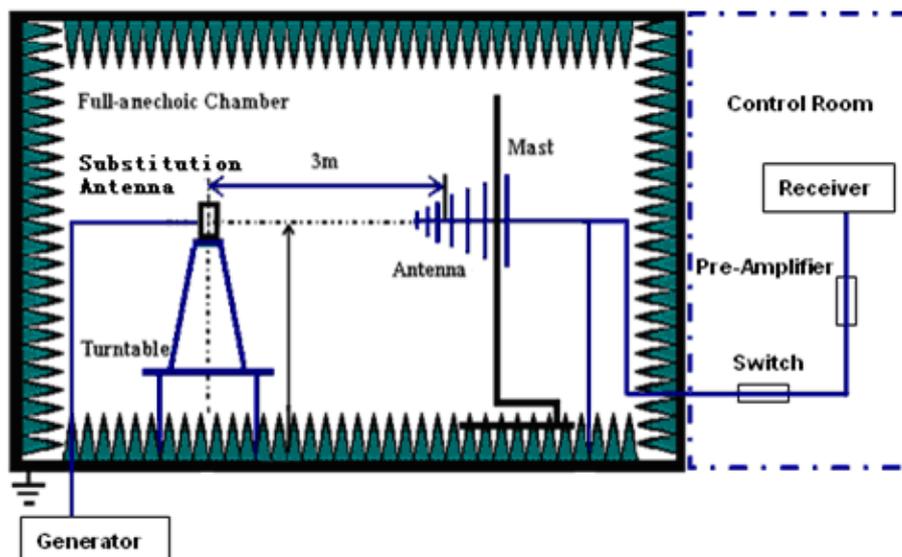
For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, EIRP shall be measured when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in 2.1033(c)(8). Connect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

Test the Radiated maximum output power by 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 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 30MHz up to 1 GHz: 100 kHz;
 Measurement bandwidth (RBW) for 1GHz up to 18GHz: 1MHz;

According to RSS-132, the defined measurement bandwidth as following:
 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 30 MHz up to 1 GHz: 100 kHz;
 Measurement bandwidth (RBW) for 1GHz up to 18 GHz: 1MHz;

Radiated Spurious Emissions Limits

Frequency band	Minimum requirement (E.R.P) traffic mode
9KHz~18GHz	-13dBm

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

24.238(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 30MHz up to 26.5GHz: 1MHz;

According to RSS-133, the defined measurement bandwidth as following:
 RSS-133 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 30 MHz up to 26.5 GHz: 1 MHz;

Radiated Spurious Emissions Limits

Frequency band	Minimum requirement (E.R.P) traffic mode
9KHz~26.5GHz	-13dBm

No peak found in pre- test. All frequency points' margin is bigger than 20dB, so the substitution method isn't used.

Calculation Sample:

Substitution Results

Freq. [MHz]	Measure ment Value [dBm]	Substitution Antenna Type	Gain [dBd]	Cable Loss [dB]	Signal Generator Level [dBm]	Substitution Level [dBm]	FCC limit [dBm]	Result

Note: For get the E.R.P. (Efficient Radiated Power) in substitution method, the following formula should take to calculate it,

$$E.R.P. [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]$$

NOTE: SGP- Signal Generator Level

5.3.2 Test Results

The EUT has met the requirements of FCC Part22/24, RSS-132/133requirement.

6 Receiver Spurious Emission (Radiated)

6.1.1 Test Procedure

The EUT was connected to the Spectrum Analyzer or equivalent via one RF RX diversity connector, and other RF connectors were connected to match loads. The EUT was controlled to transmit maximum power and to be operated in the normal receive mode by Console Computer. Measure and record the Receiver Out-band Spurious Emissions of the EUT by the Spectrum Analyzer or equivalent.

According to IC RSS-Gen clause 4.10, the search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is the higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is the higher, without exceeding 40 GHz.

A preliminary scan and a final scan of the emissions were made from 30 MHz to18 GHz by using test script of software; the emissions were measured using Quasi-Peak Detector (30MHz~1GHz) and AV detector (above 1GHz). 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.

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

Measurement bandwidth: 30 MHz – 1000 MHz: 120 k Hz
 Measurement bandwidth: 1GHz – 18GHz: 1MHz

Test set up figure:

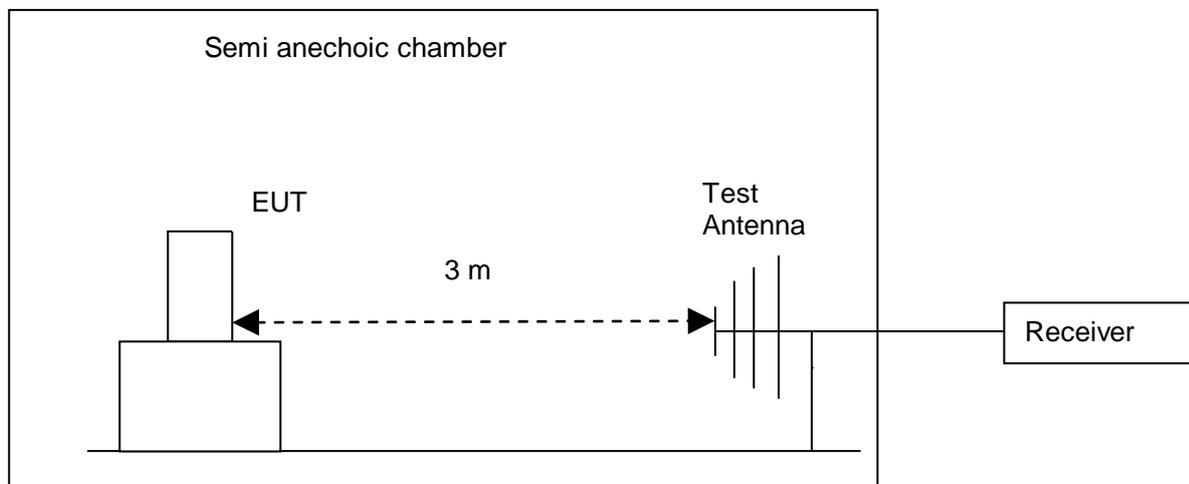


Figure 5. Test set-up

6.1.2 Test Results

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

Test Limits

Frequency of Emission (MHz)	Radiated Limit	
	Unit(μV/m)	Unit(dBμV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

7 Main Test Instruments

Main Test Equipments

Test item	Test Instrument	Model	Manufacturer	Cal-Date	Cal Interval (month)
RE&CE	EMI Test receiver	ESU26	R&S	Jun.25, 2010	12
	Broadband Antenna	VULB 9163	SCHWARZBECK	May.15, 2010	12
	Horn Antenna	HF906	R&S	May.15, 2010	12
	LISN	ENV216	R&S	Jun.25.2010	12
RSE	EMI Test receiver	FSU43	R&S	Jun.24, 2010	12
	Broadband Antenna	VULB 9163	SCHAFFNER	Sep.29.2010	12
	Horn Antenna	HF906	R&S	Jun.29.2010	12
	Horn Antenna	3117	ETS-Lindgren	Sep.29.2010	12
Software Information					
Test Item	Software Name	Manufacturer	Version		
RE/CE	ES-K1	R&S	1.7.1		
RSE	EMC32	R&S	V8.10.10		

8 System Measurement Uncertainty

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

System Measurement Uncertainty

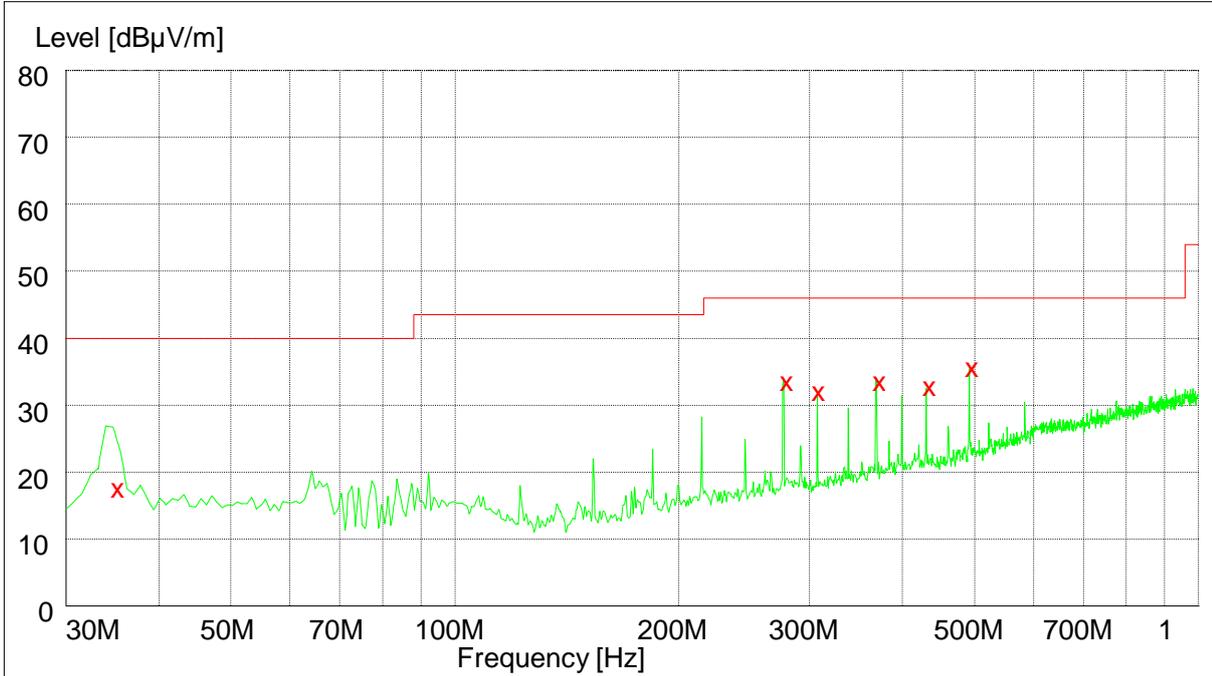
Items		Extended Uncertainty
RE	Field strength (dB μ V/m)	U=4.1dB; k=2(30MHz-1GHz)
RE	Field strength (dB μ V/m)	U=4.1dB; k=2(1GHz-18GHz)
RSE	ERP (dBm)	U=2.8dB; k=2
CE	Disturbance Voltage (dB μ V)	U=3.4dB; k=2

9 Graph and Data of Emission Test

9.1 Radiated Disturbance

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

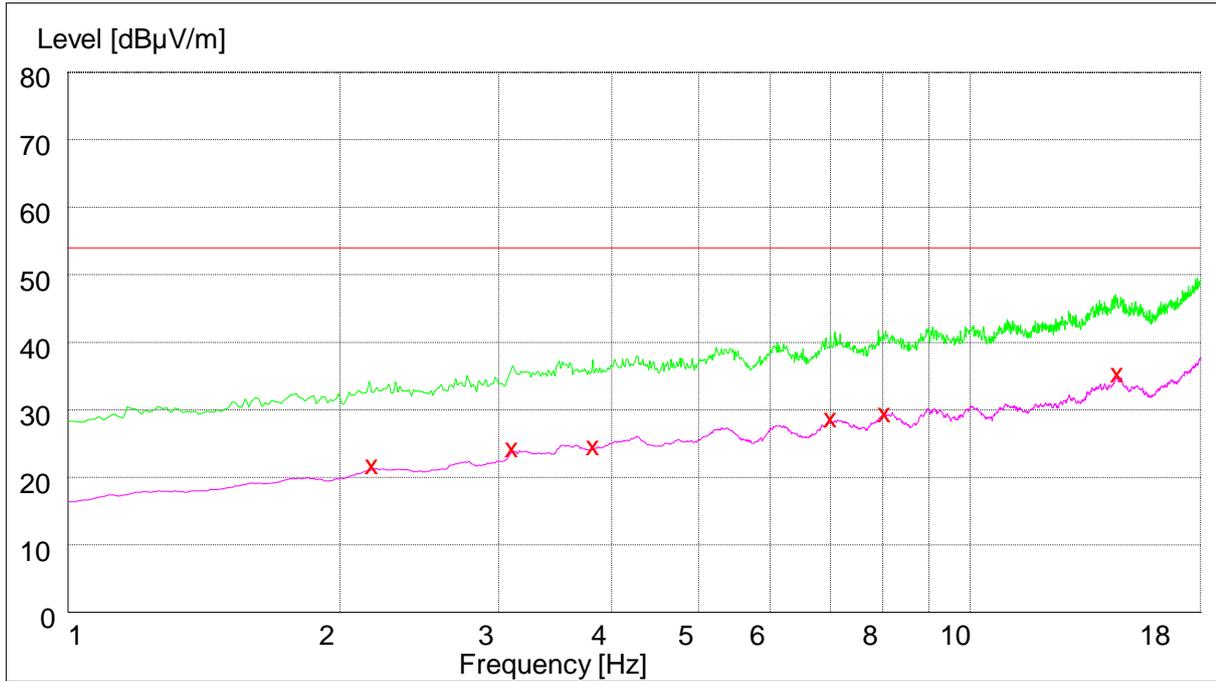
30MHz-1GHz



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
35.256000	18.60	11.8	40.0	21.4	154.0	225.00	VERTICAL
276.468000	34.30	14.9	46.0	11.7	100.0	136.00	HORIZONTAL
307.212000	32.70	15.7	46.0	13.3	100.0	128.00	HORIZONTAL
368.632000	34.30	17.4	46.0	11.7	100.0	143.00	HORIZONTAL
430.056000	33.60	18.8	46.0	12.4	101.0	181.00	VERTICAL
491.540000	35.80	20.0	46.0	10.2	101.0	149.00	VERTICAL

1GHz-18GHz



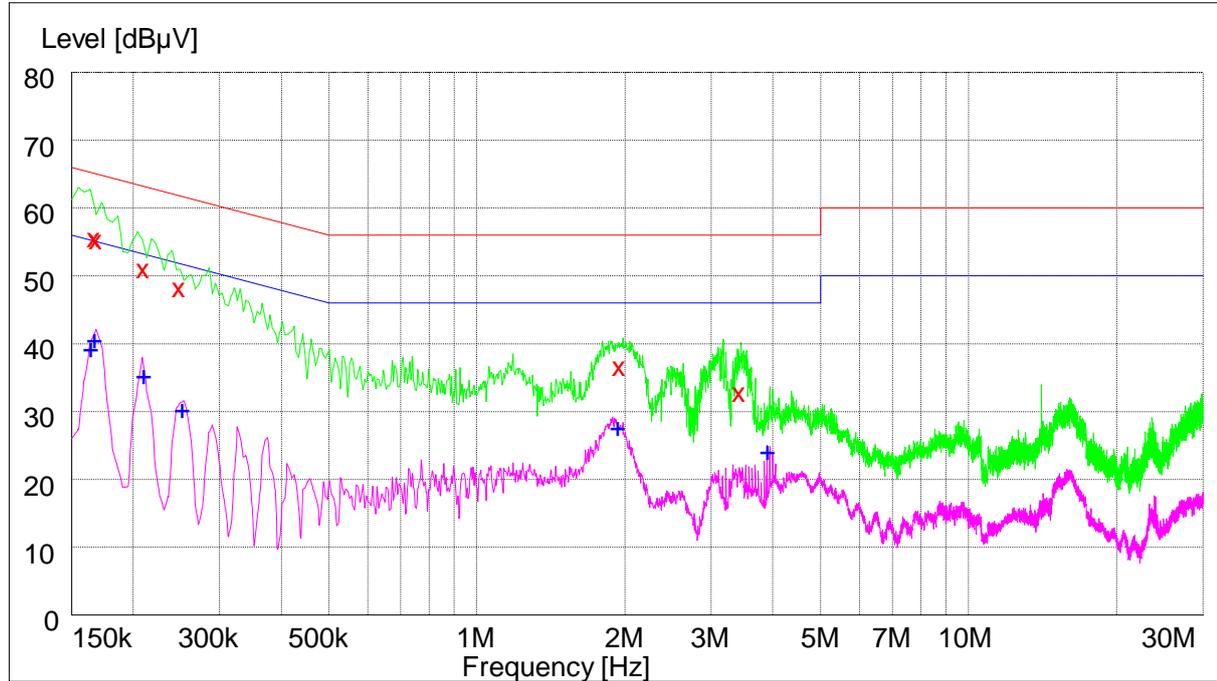
MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
2162.500000	20.60	-11.9	54.0	33.4	150.0	358.00	VERTICAL
3102.000000	23.20	-8.7	54.0	30.8	100.0	194.00	HORIZONTAL
3812.200000	23.70	-6.3	54.0	30.3	103.0	20.00	VERTICAL
6993.100000	28.00	0.2	54.0	26.0	200.0	194.00	HORIZONTAL
8057.400000	28.80	2.2	54.0	25.2	114.0	62.00	VERTICAL
14491.200000	34.00	12.4	54.0	20.0	157.0	264.00	HORIZONTAL

9.2 Conducted Disturbance

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

AC Power Port Test Data



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.166000	56.60	10.1	65	8.4	L1	FLO
0.168000	56.30	10.1	65	8.7	L1	FLO
0.210000	50.80	10.0	63	12.2	L1	FLO
0.248000	47.30	10.0	62	14.7	L1	FLO
1.944000	36.60	10.1	56	19.4	L1	FLO
3.422000	33.20	10.2	56	22.8	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.164000	40.10	10.1	55	14.9	N	FLO
0.166000	41.50	10.1	55	13.5	L1	FLO
0.210000	36.20	10.0	53	16.8	L1	FLO
0.252000	31.30	10.0	52	20.7	L1	FLO
1.926000	28.60	10.1	46	17.4	N	FLO
3.894000	25.00	10.2	46	21.0	L1	FLO

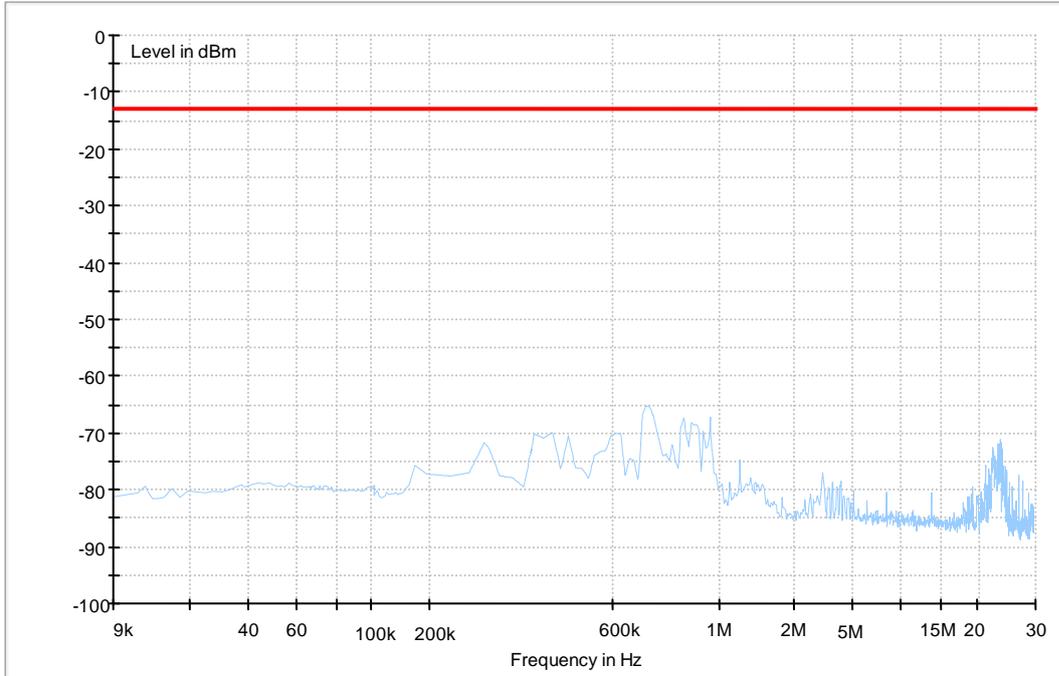
9.3 Radiated Spurious Emission

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

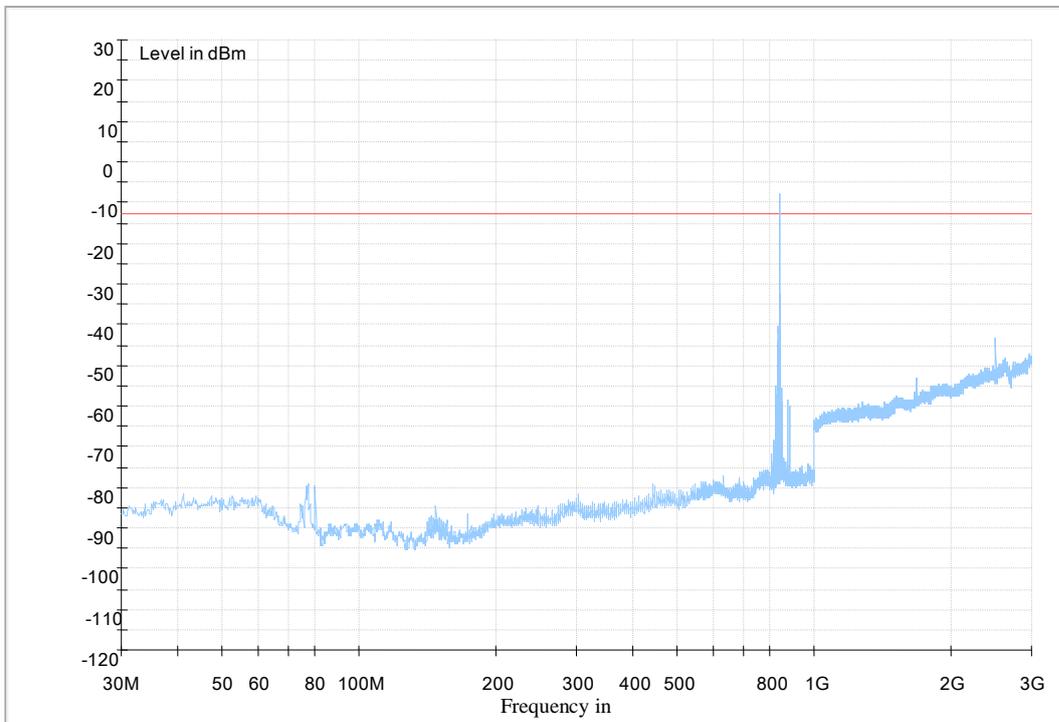
The highest peak exceeds the limit line is carrier frequency

9.3.1 For GSM 850

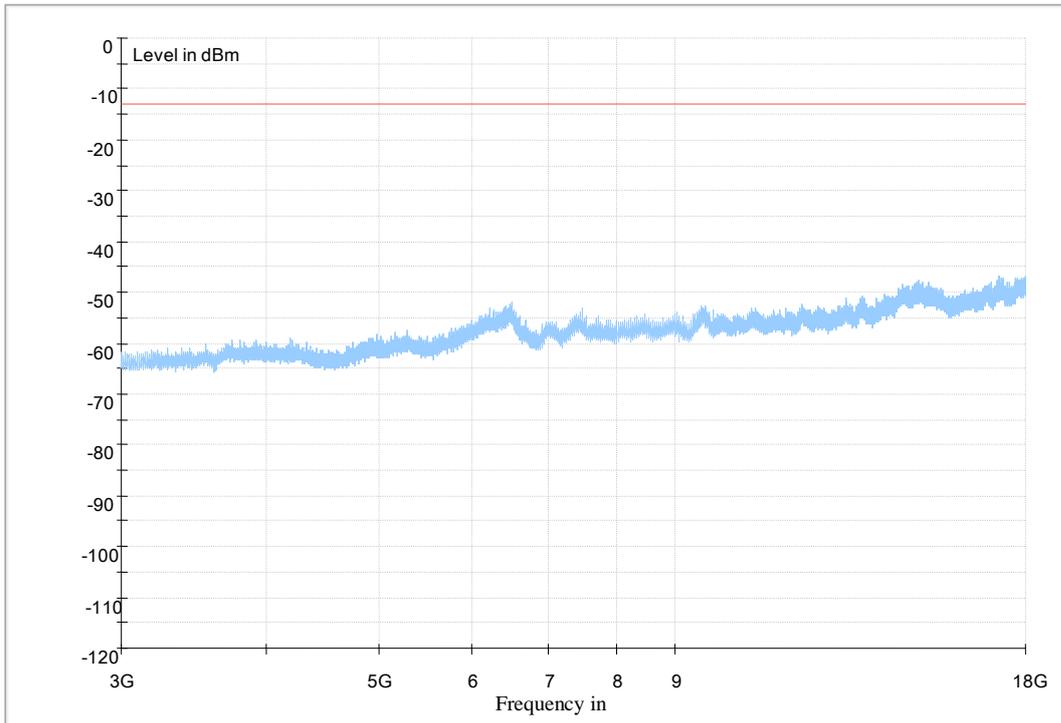
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

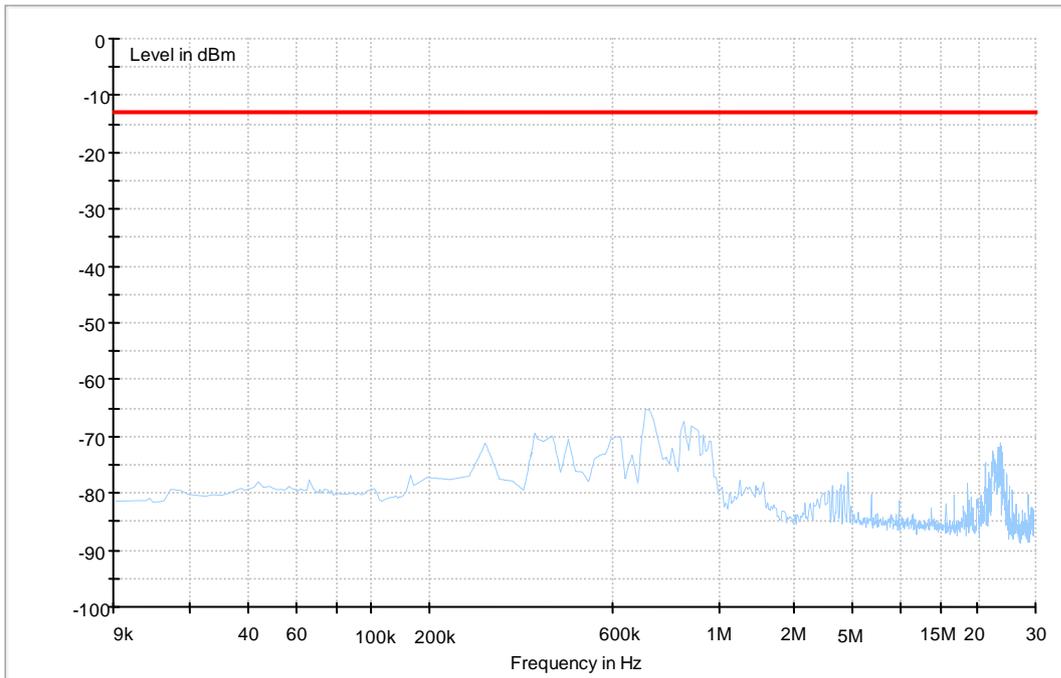


Traffic Mode (3GHz-18GHz)

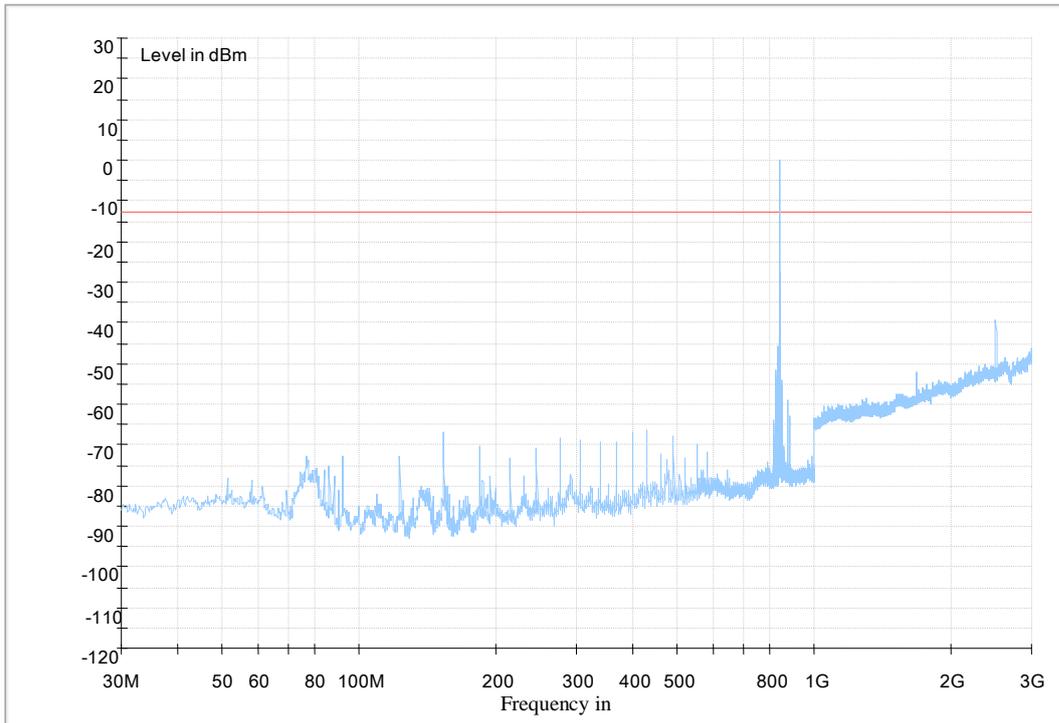


9.3.2 For GPRS 850

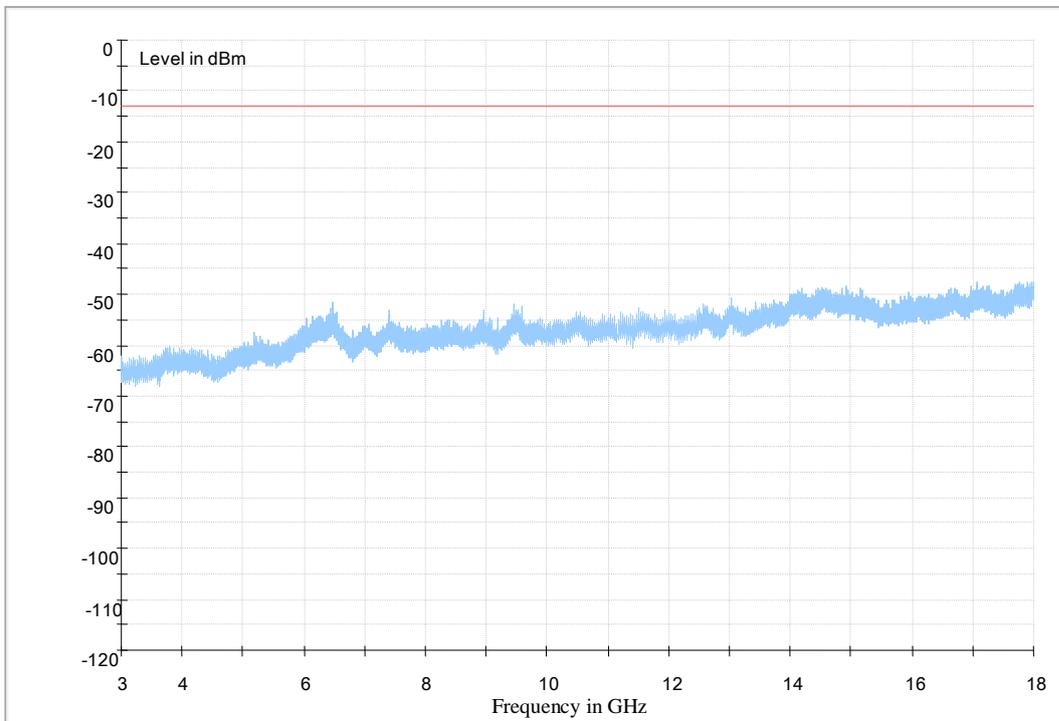
Traffic Mode (9kHz-30MHz)



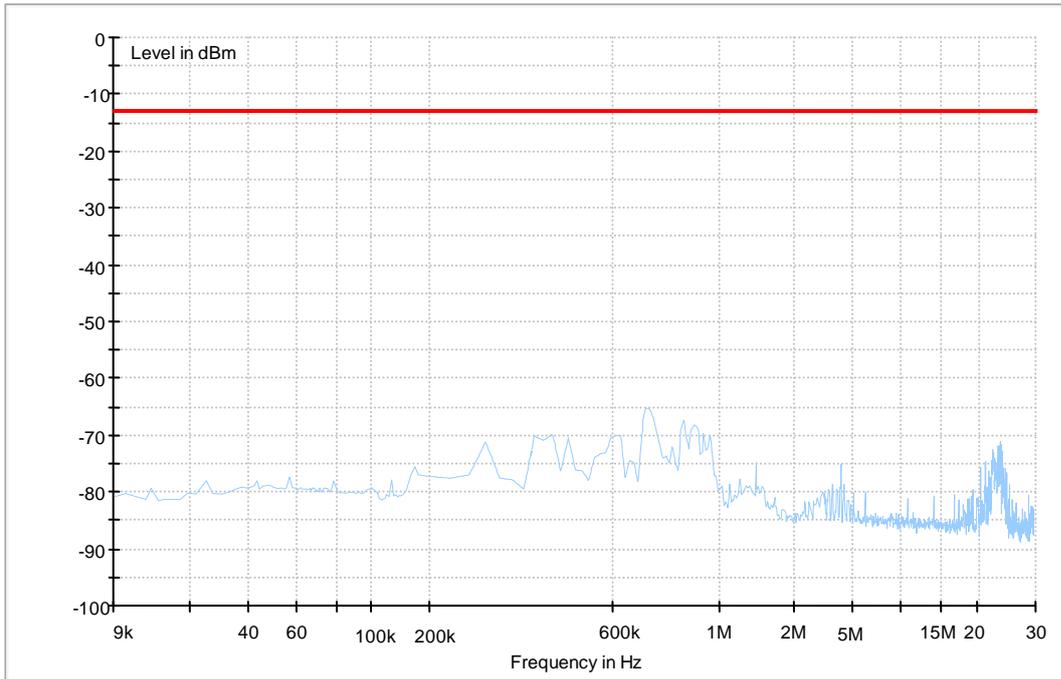
Traffic Mode (30MHz-3GHz)



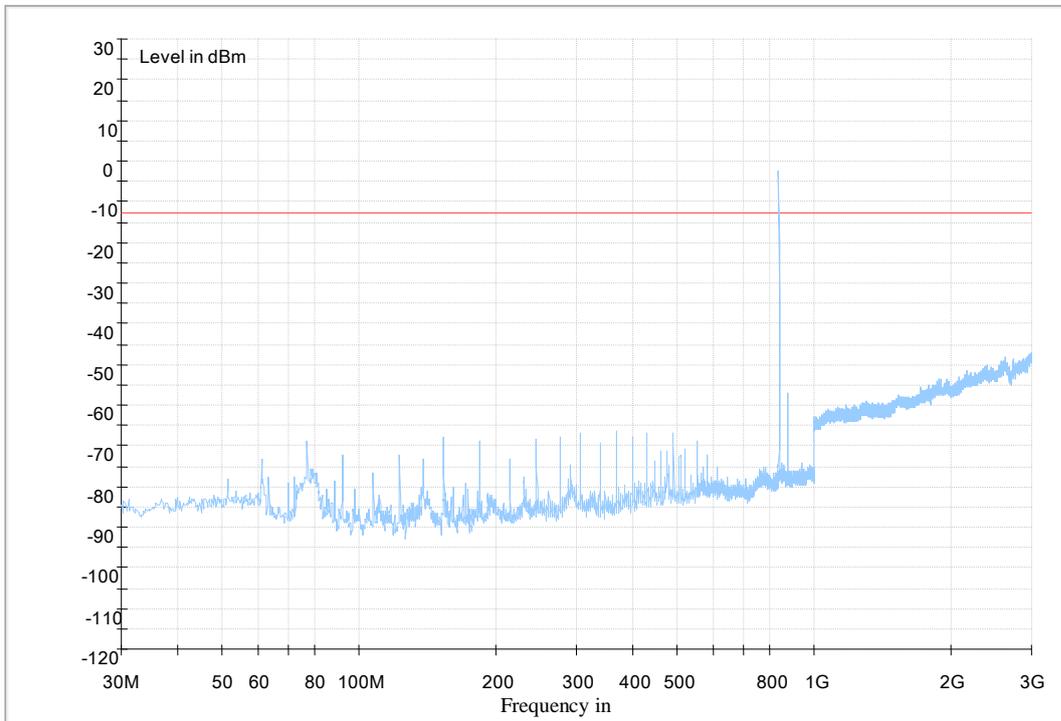
Traffic Mode (3GHz-18GHz)



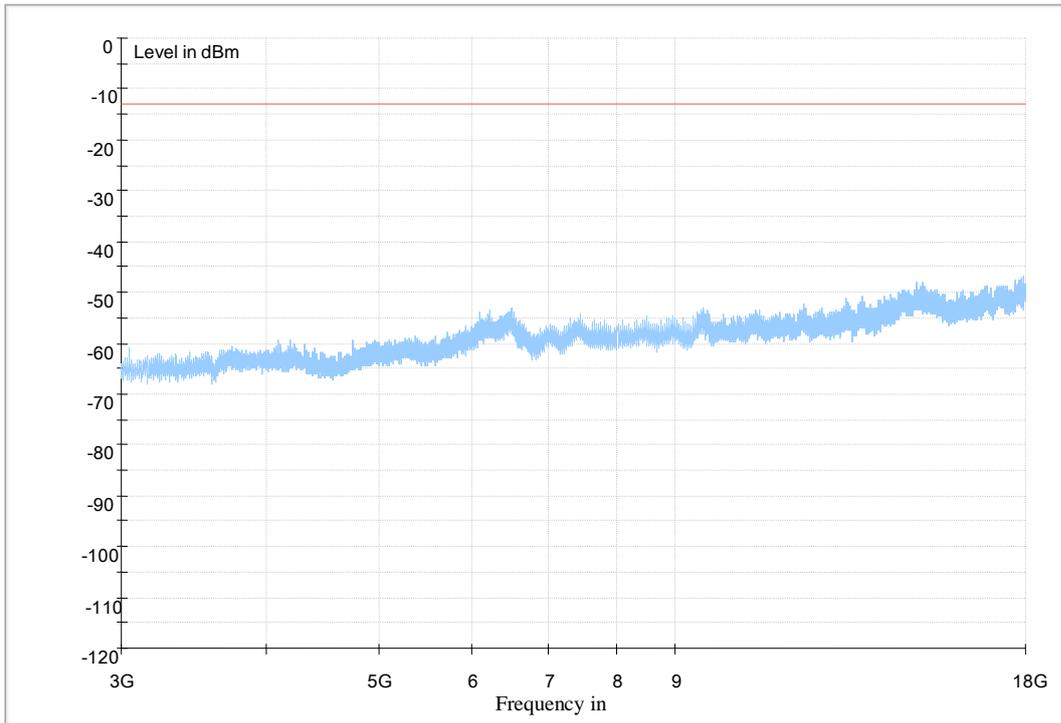
9.3.3 For EDGE 850 Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

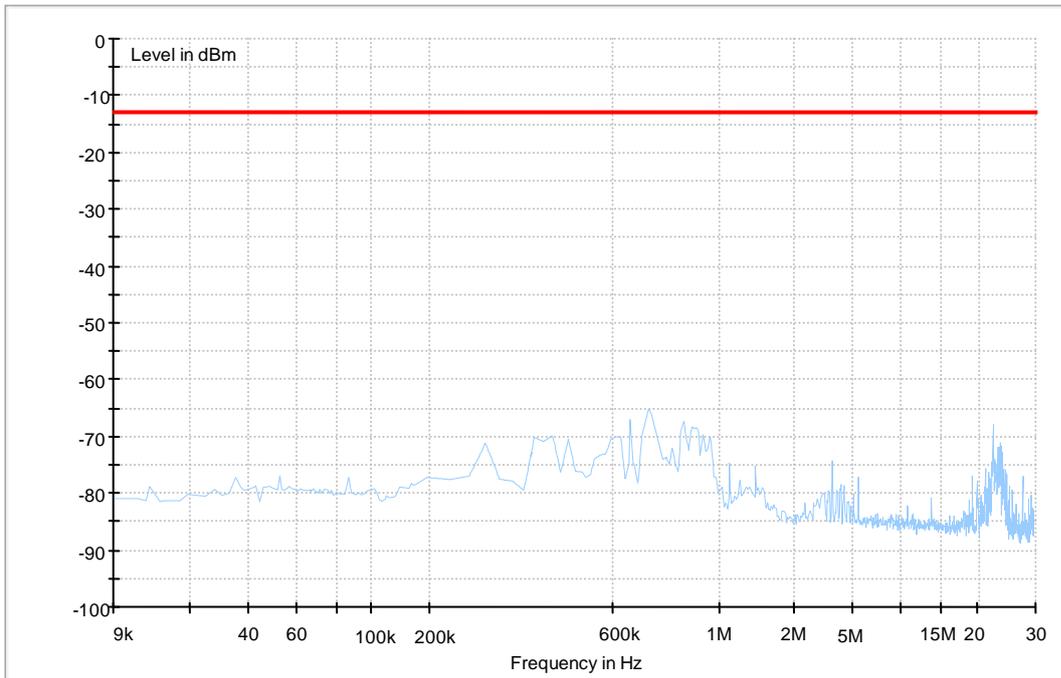


Traffic Mode (3GHz-18GHz)

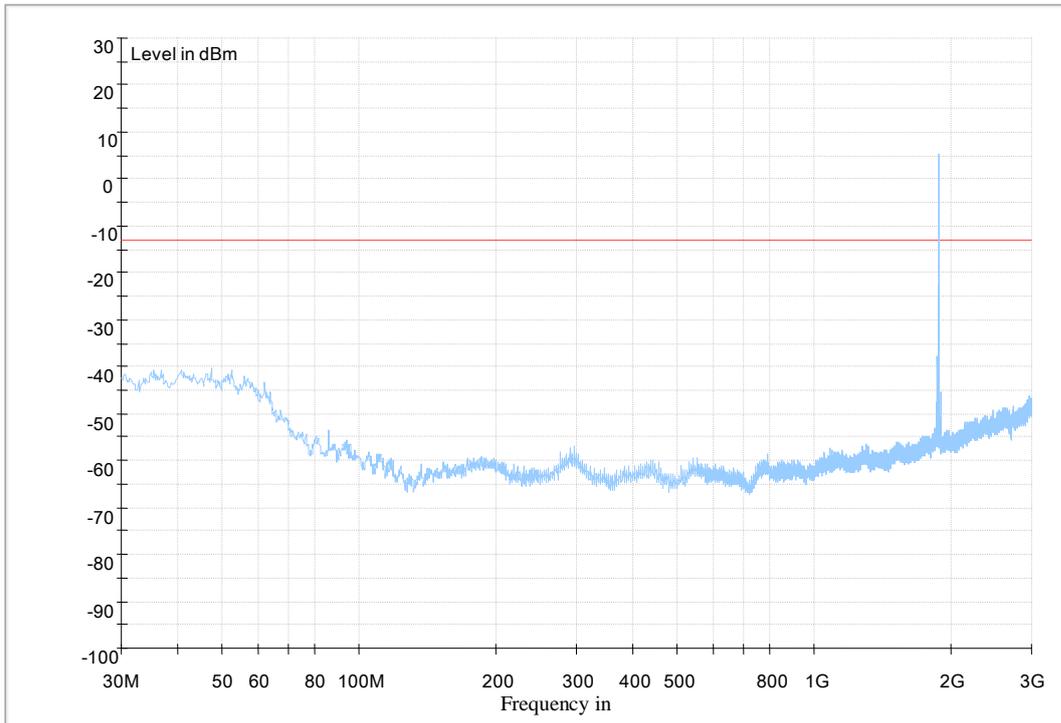


9.3.4 For GSM 1900

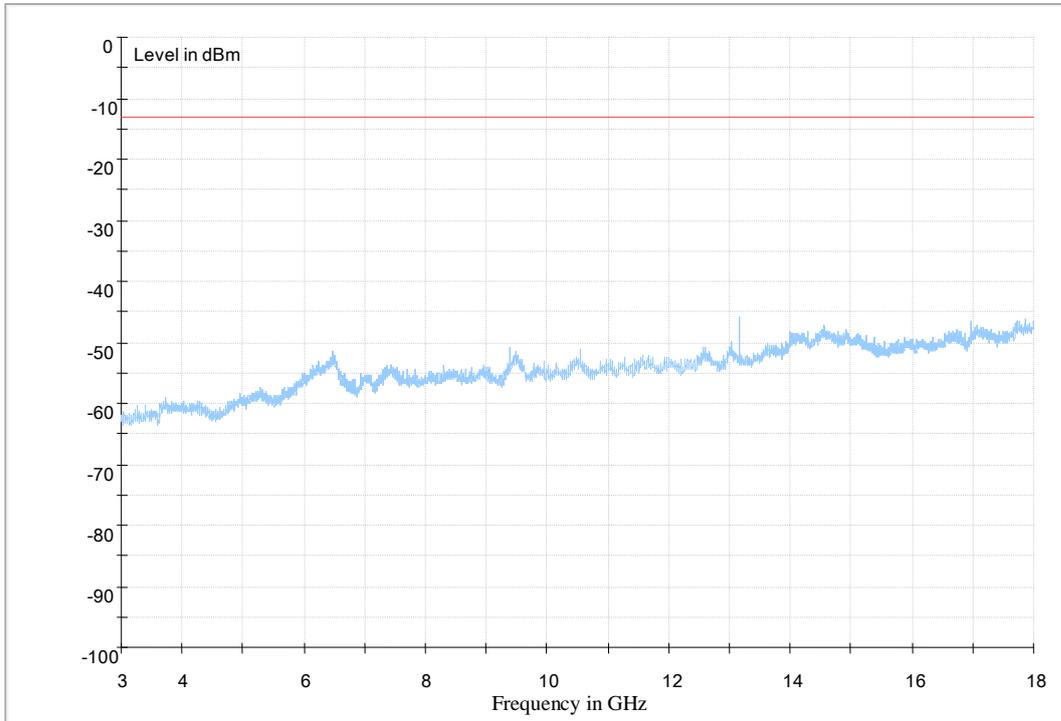
Traffic Mode (9kHz-30MHz)



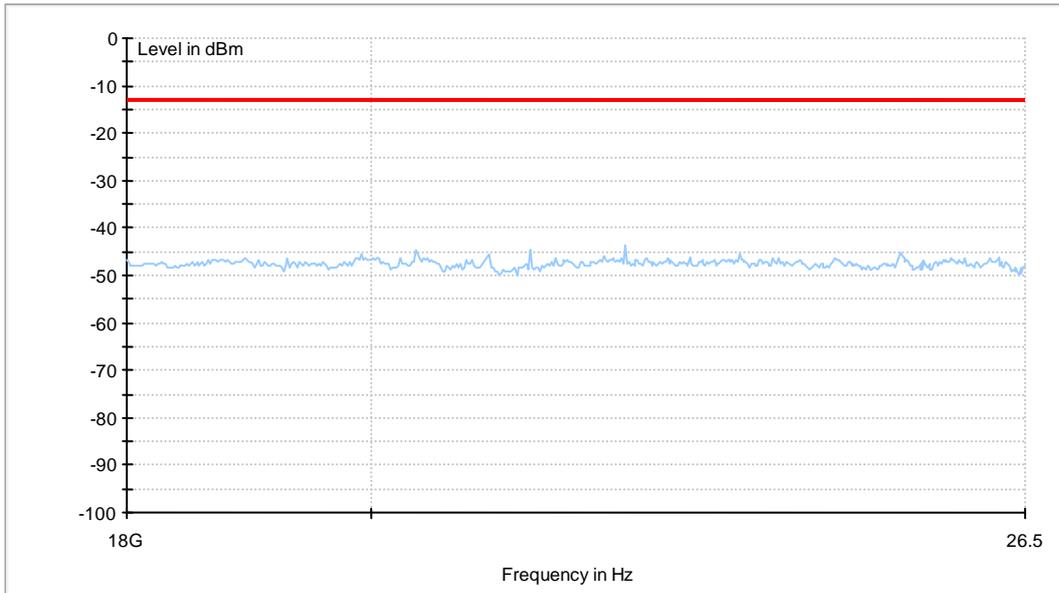
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

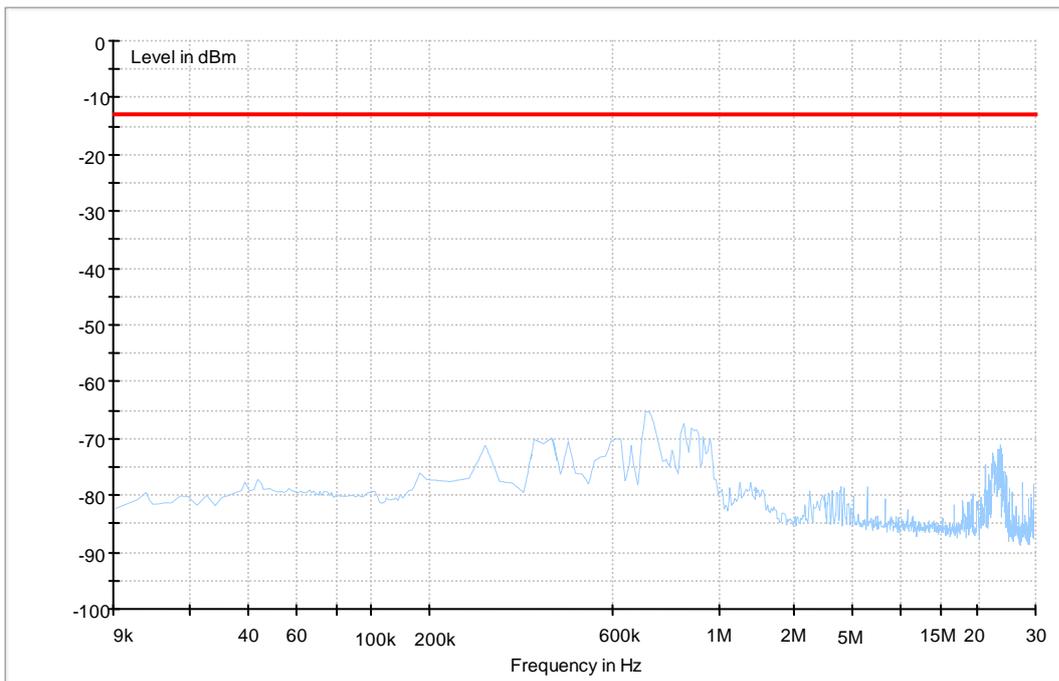


Traffic Mode (18GHz-26.5GHz)

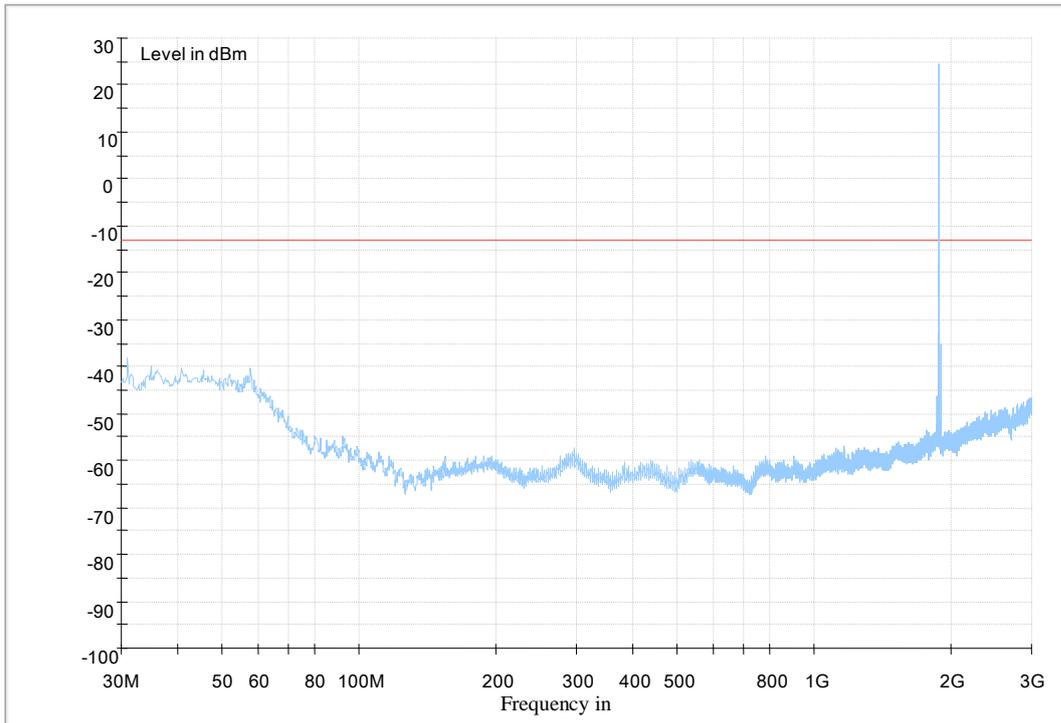


9.3.5 For GPRS 1900

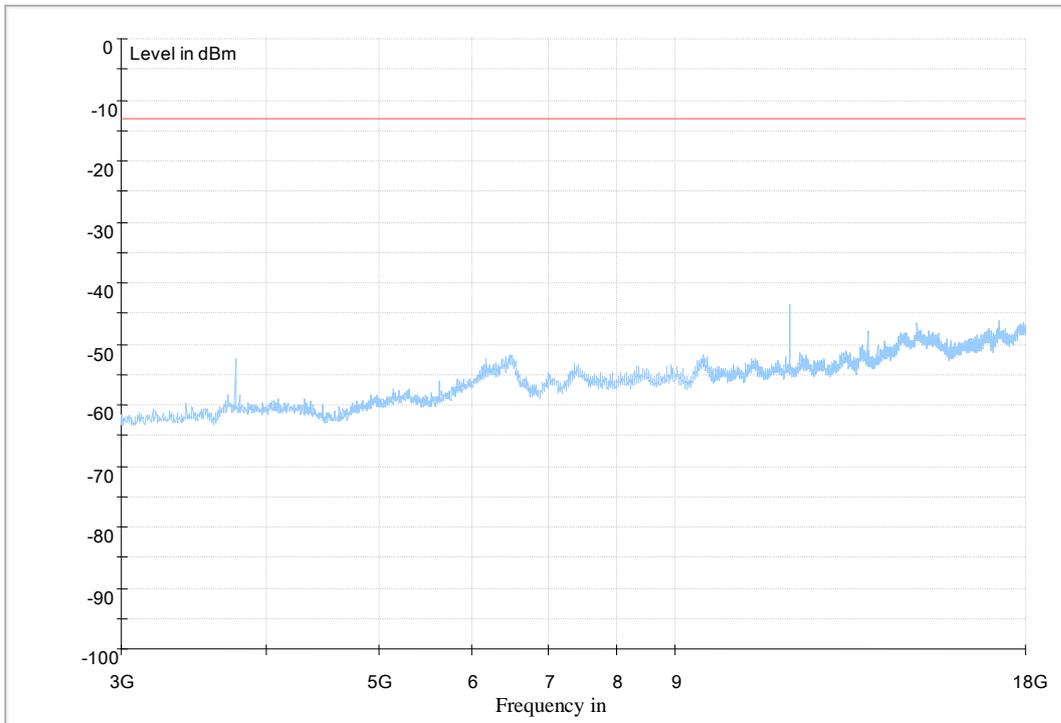
Traffic Mode (9kHz-30MHz)



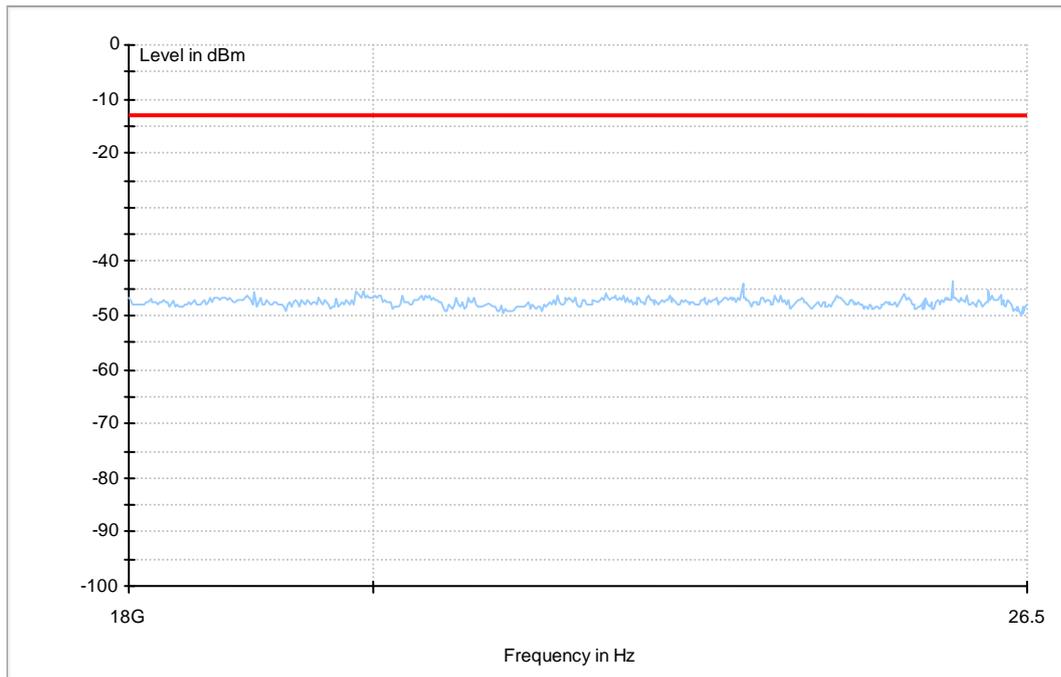
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

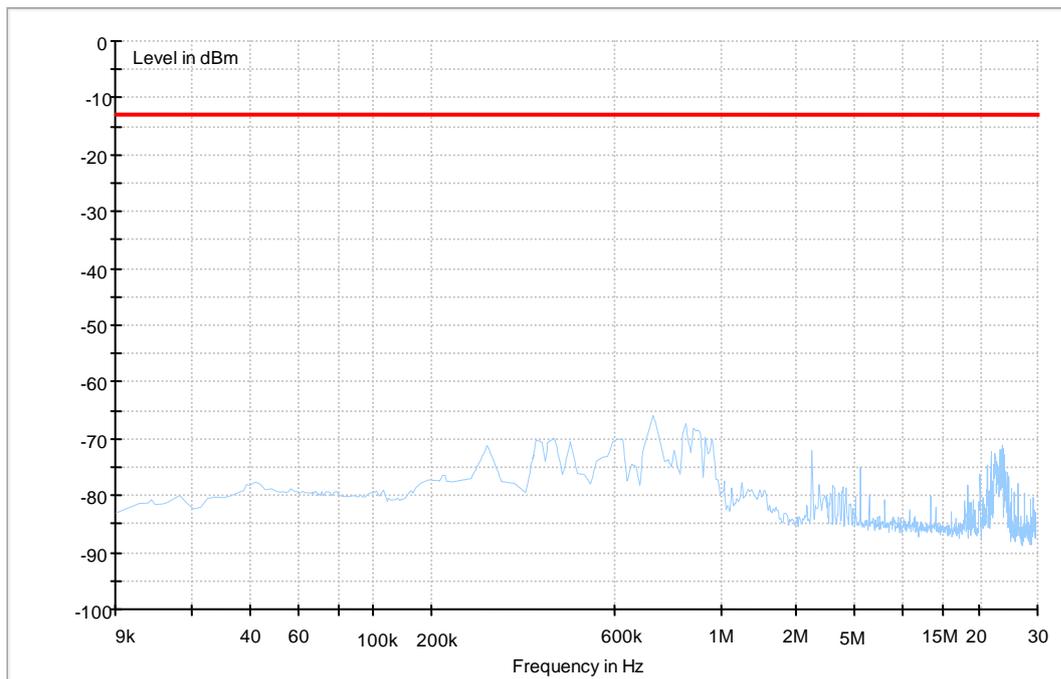


Traffic Mode (18GHz-26.5GHz)

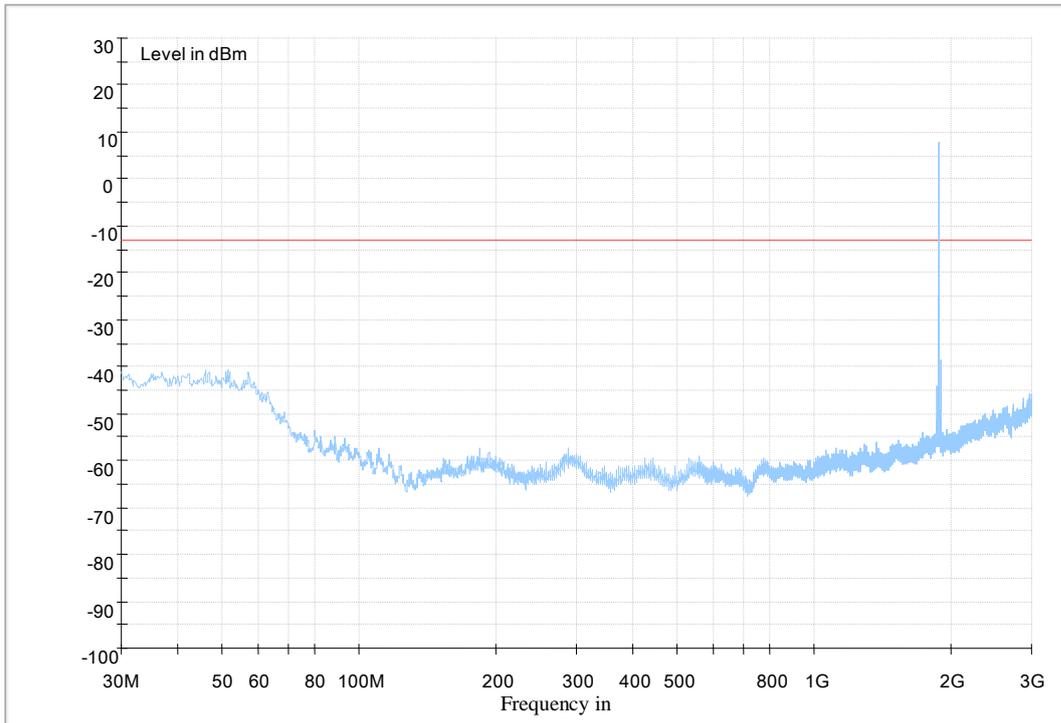


9.3.6 For EDGE 1900

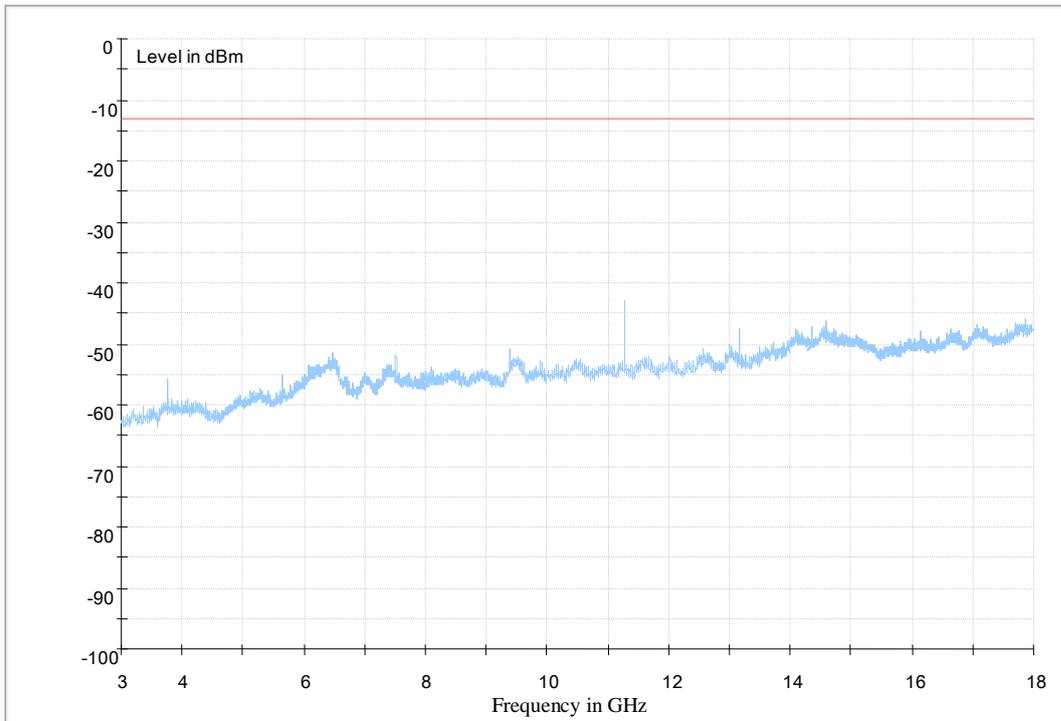
Traffic Mode (9kHz-30MHz)



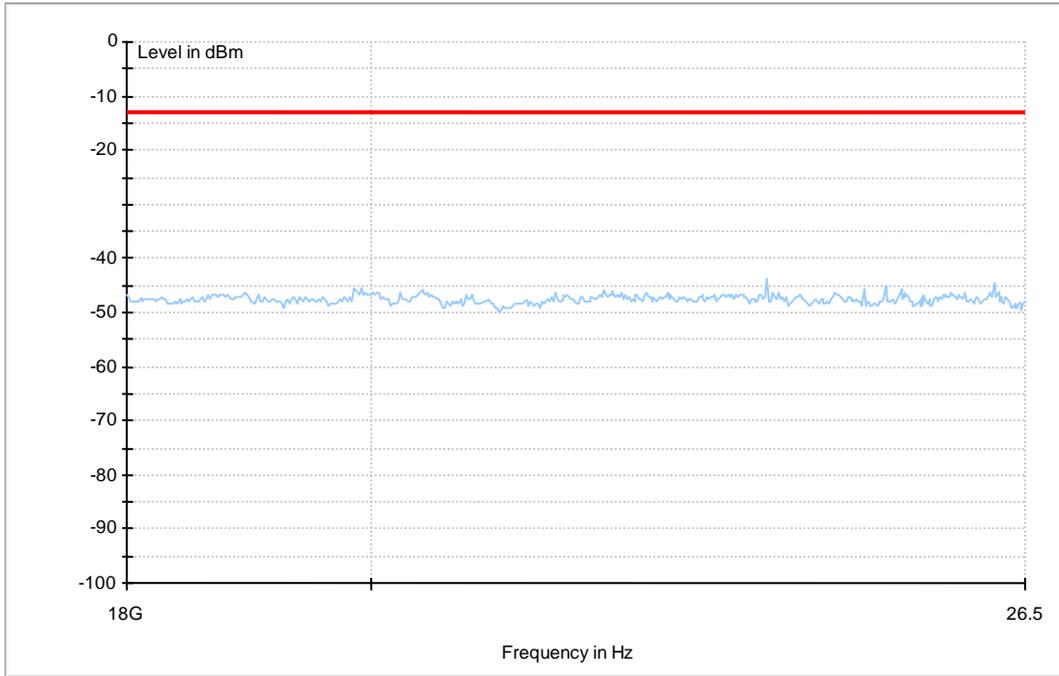
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

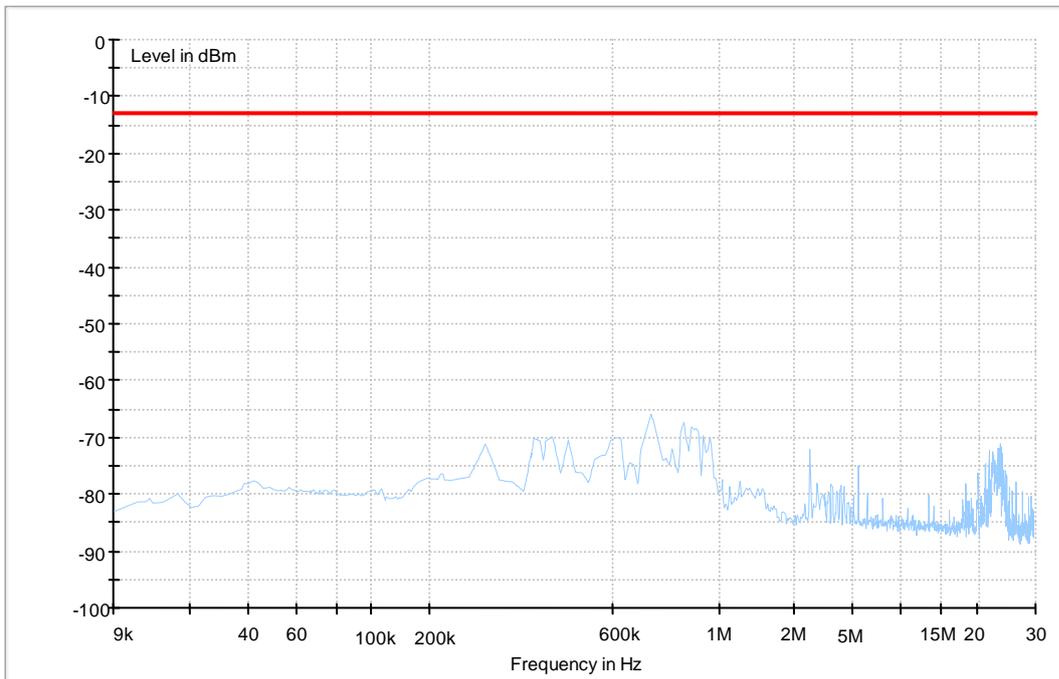


Traffic Mode (18GHz-26.5GHz)

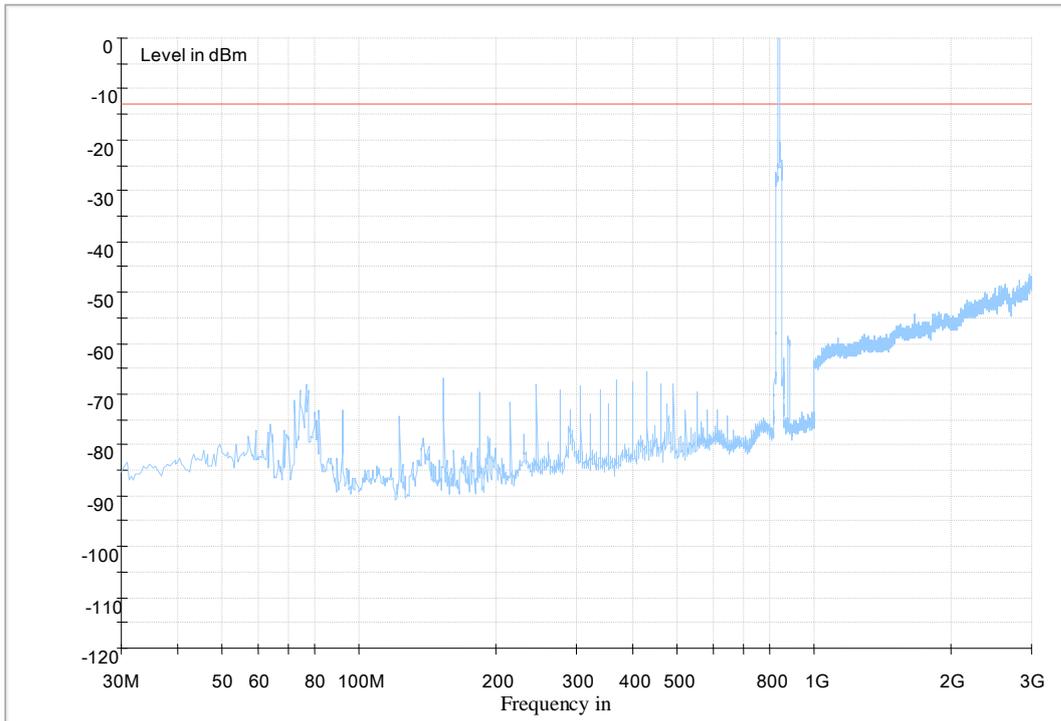


9.3.7 For WCDMA 850

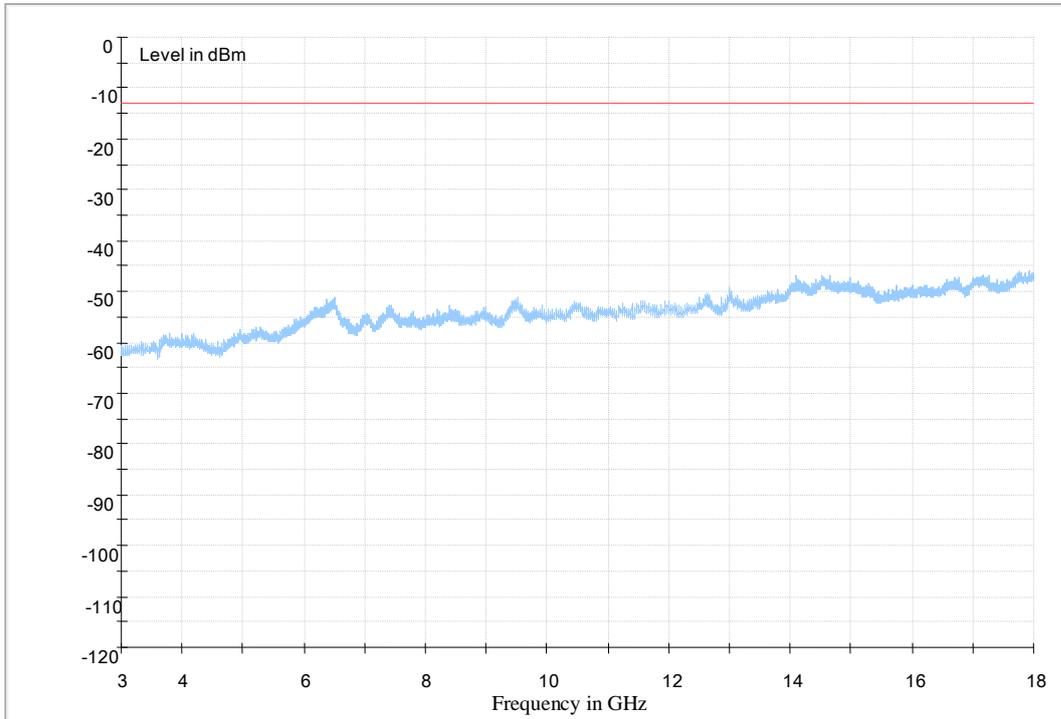
Traffic Mode(9kHz-30MHz)



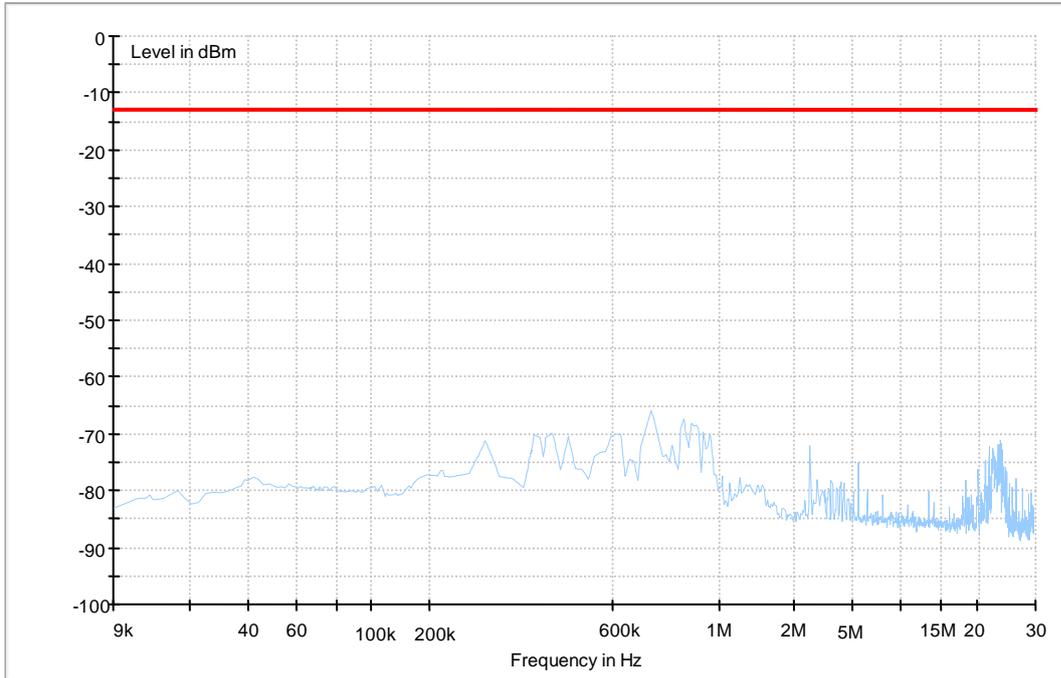
Traffic Mode(30MHz-3GHz)



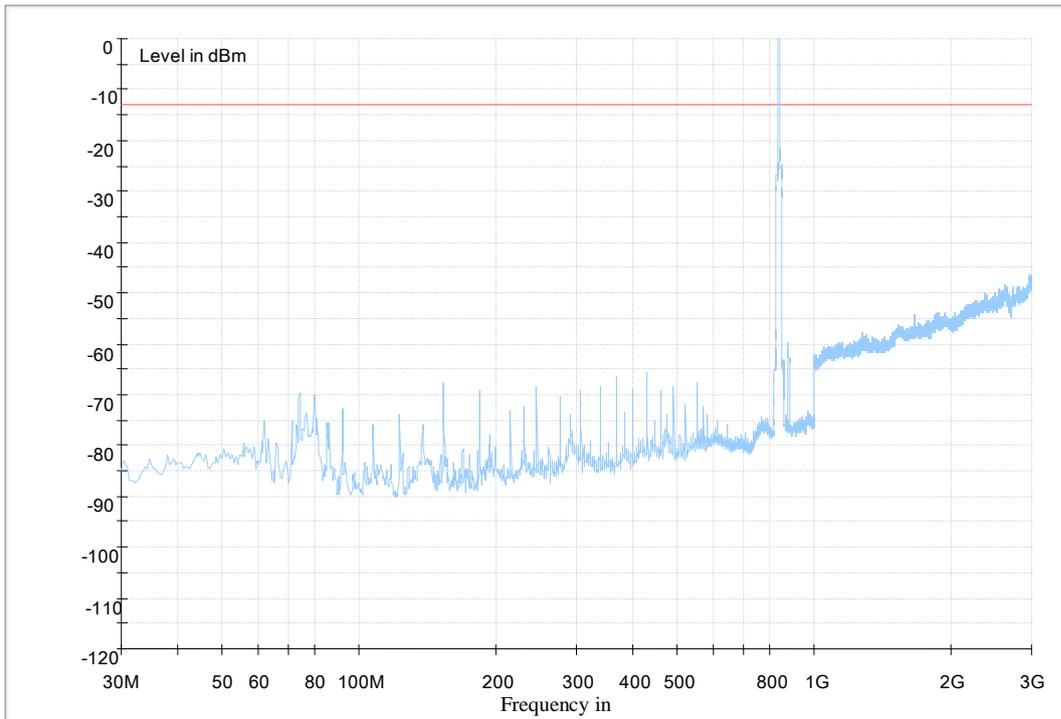
Traffic Mode(3GHz-18GHz)



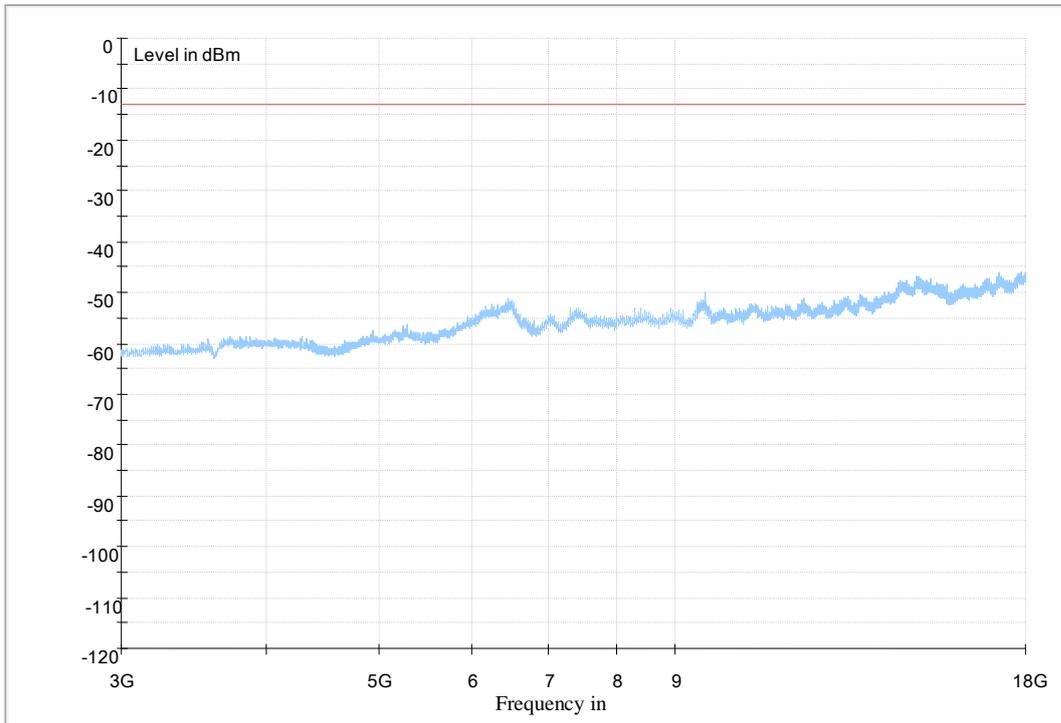
9.3.8 For HSDPA 850 Traffic Mode(9kHz-30MHz)



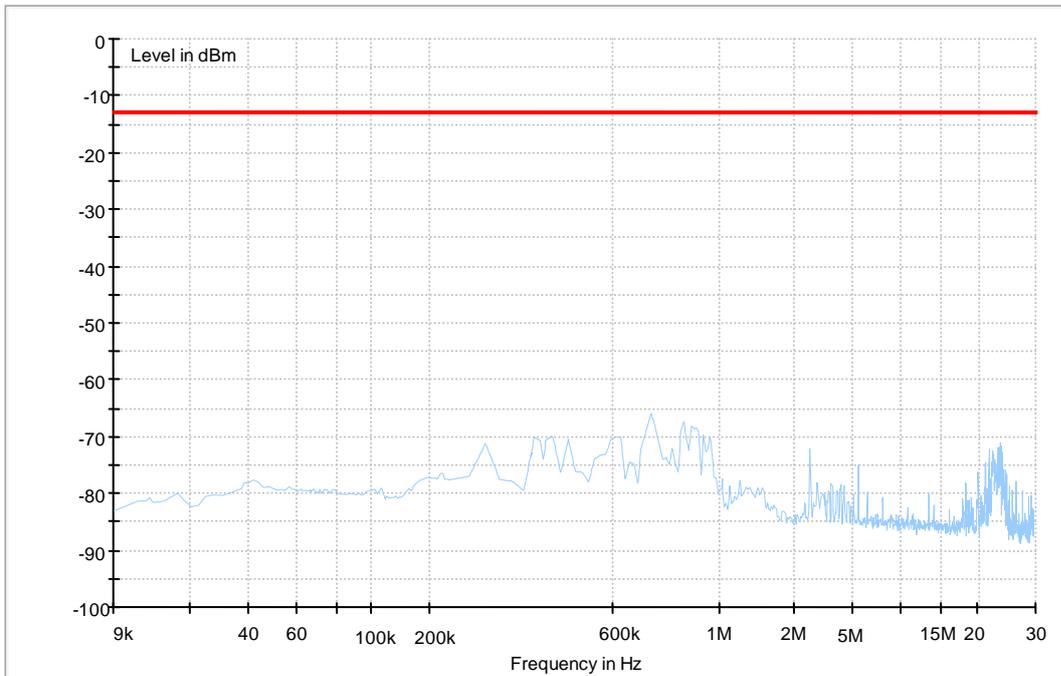
Traffic Mode(30MHz-3GHz)



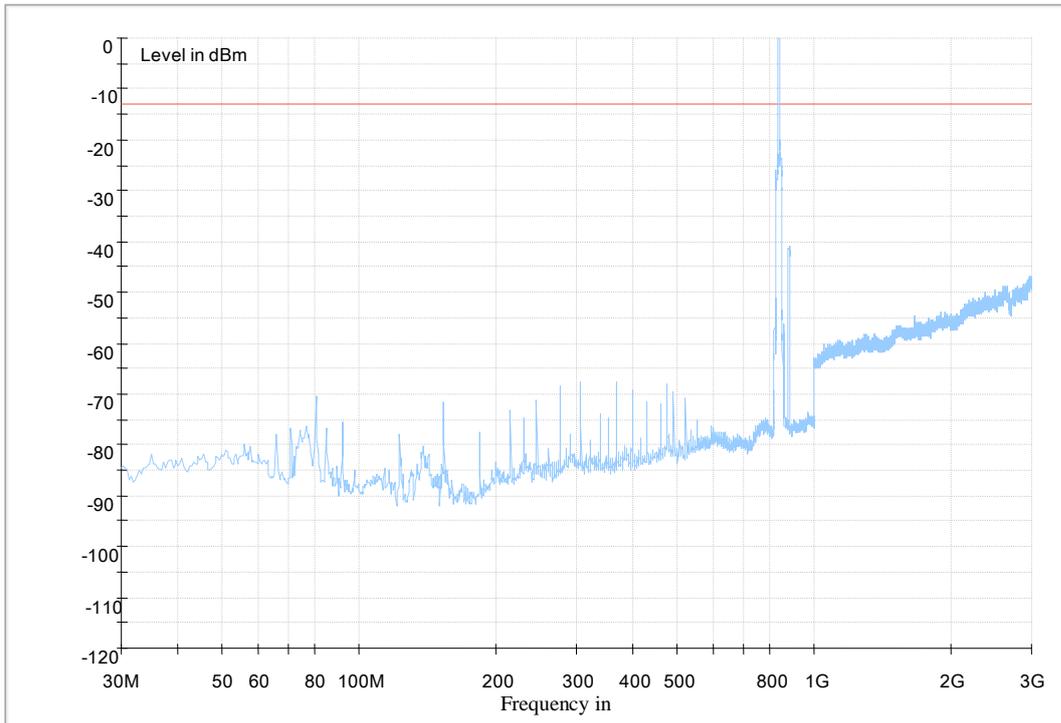
Traffic Mode(3GHz-18GHz)



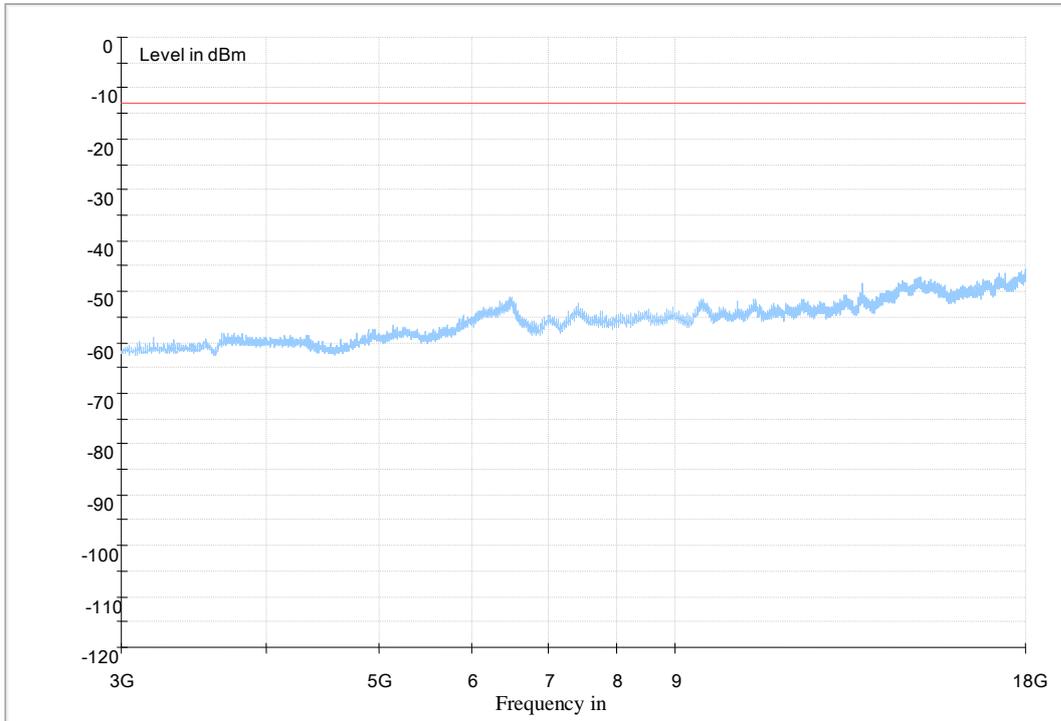
9.3.9 For HSUPA 850
Traffic Mode(9kHz-30MHz)



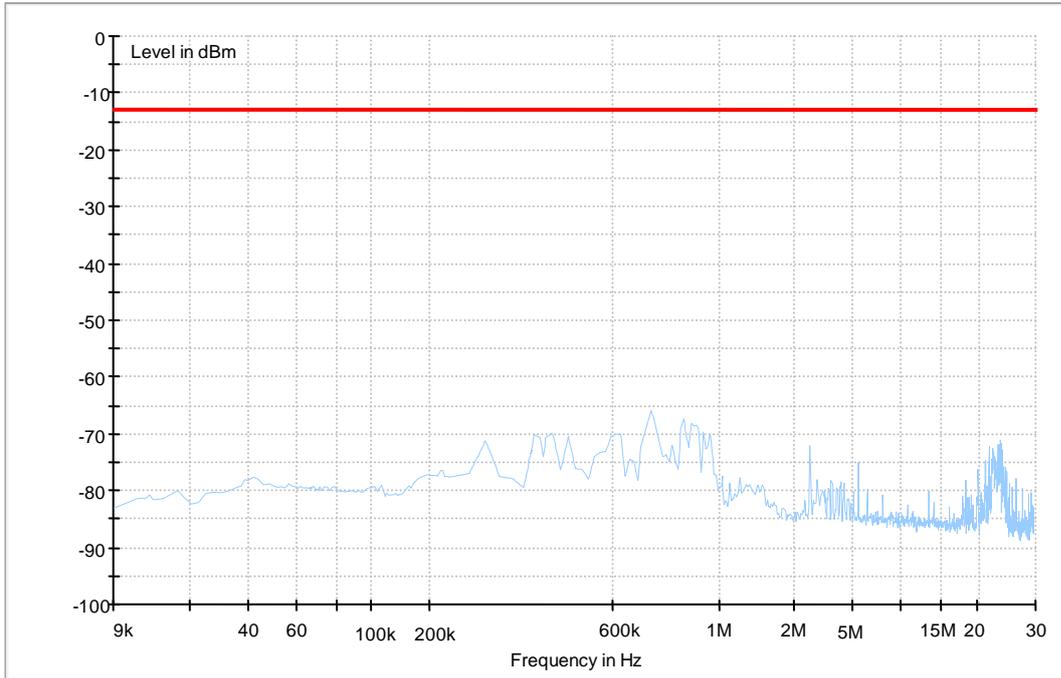
Traffic Mode(30MHz-3GHz)



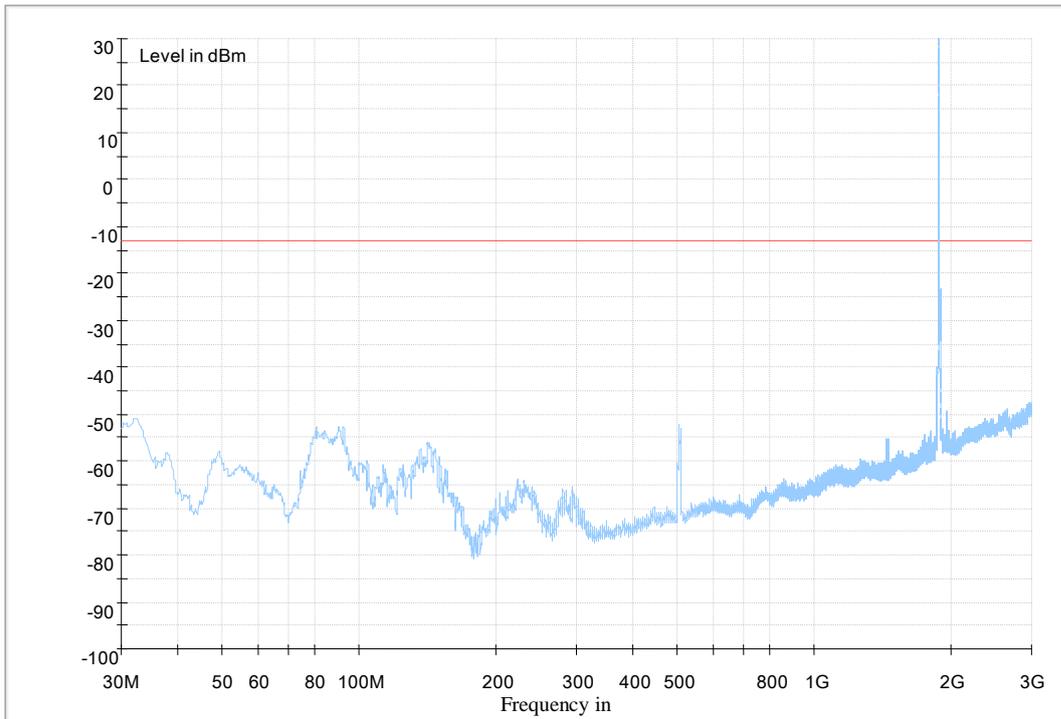
Traffic Mode(3GHz-18GHz)



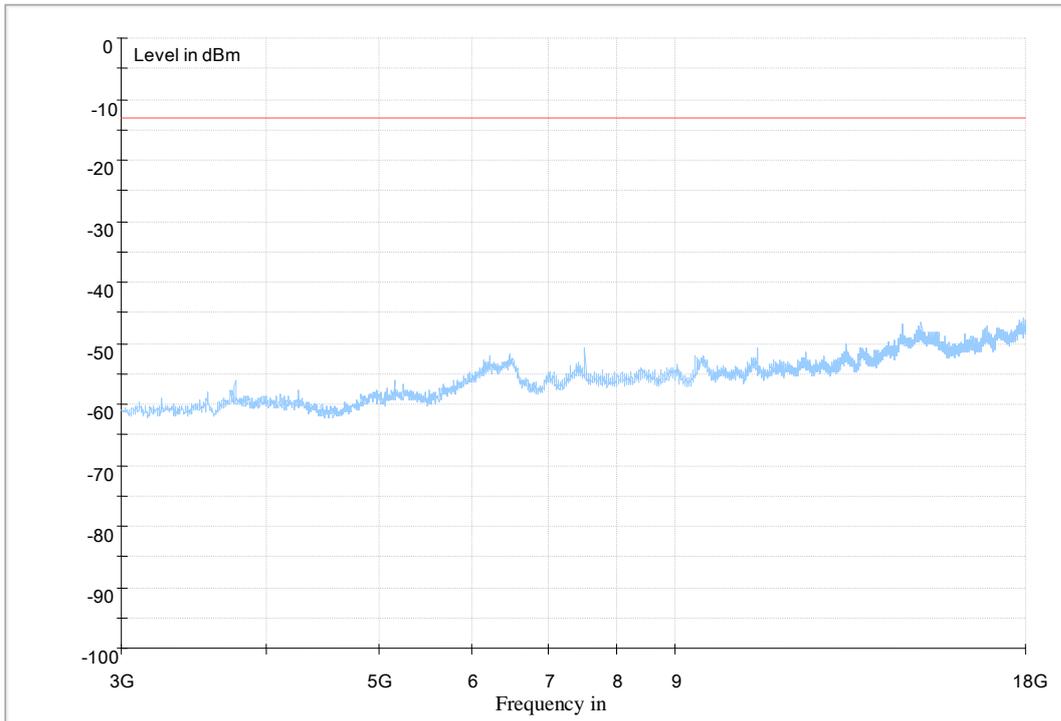
9.3.10 For WCDMA 1900
Traffic Mode(9kHz-30MHz)



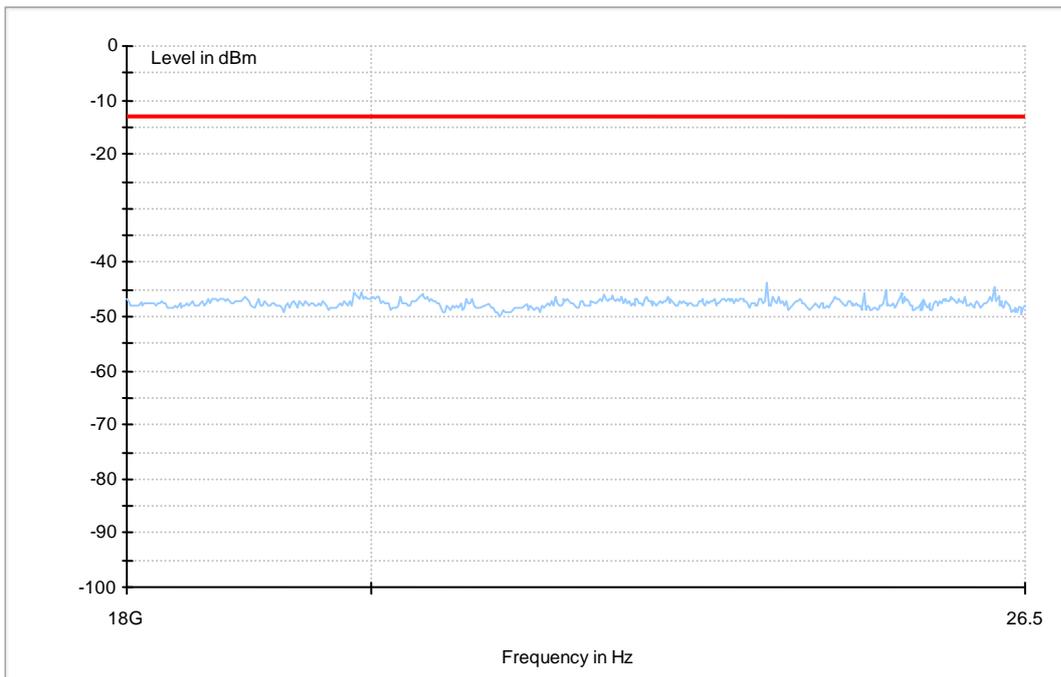
Traffic Mode(30MHz-3GHz)



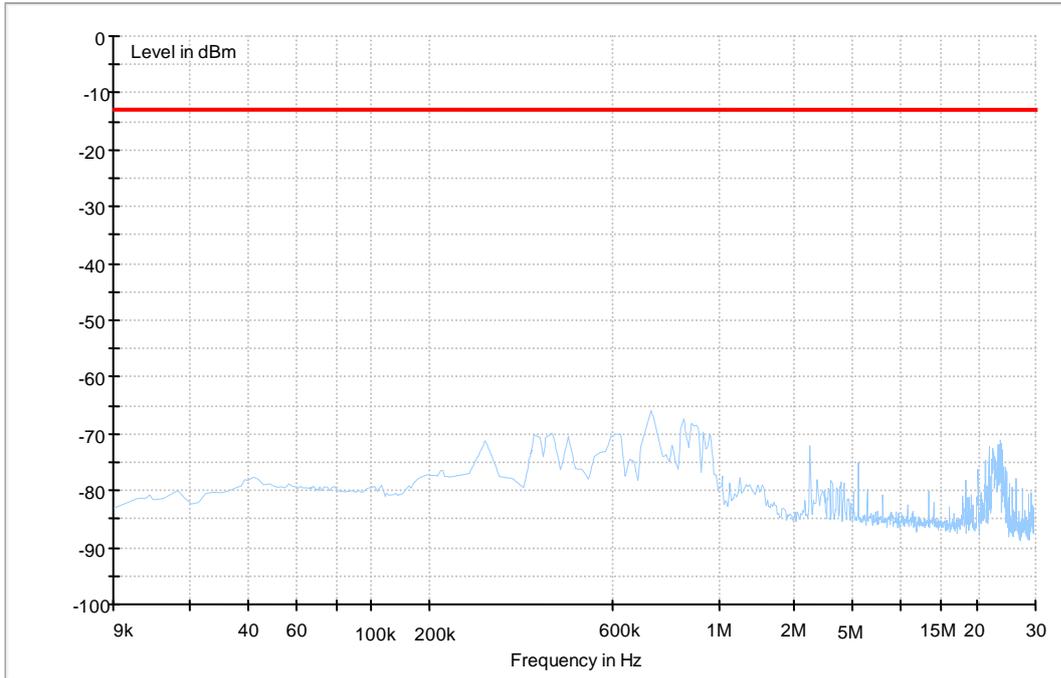
Traffic Mode(3GHz-18GHz)



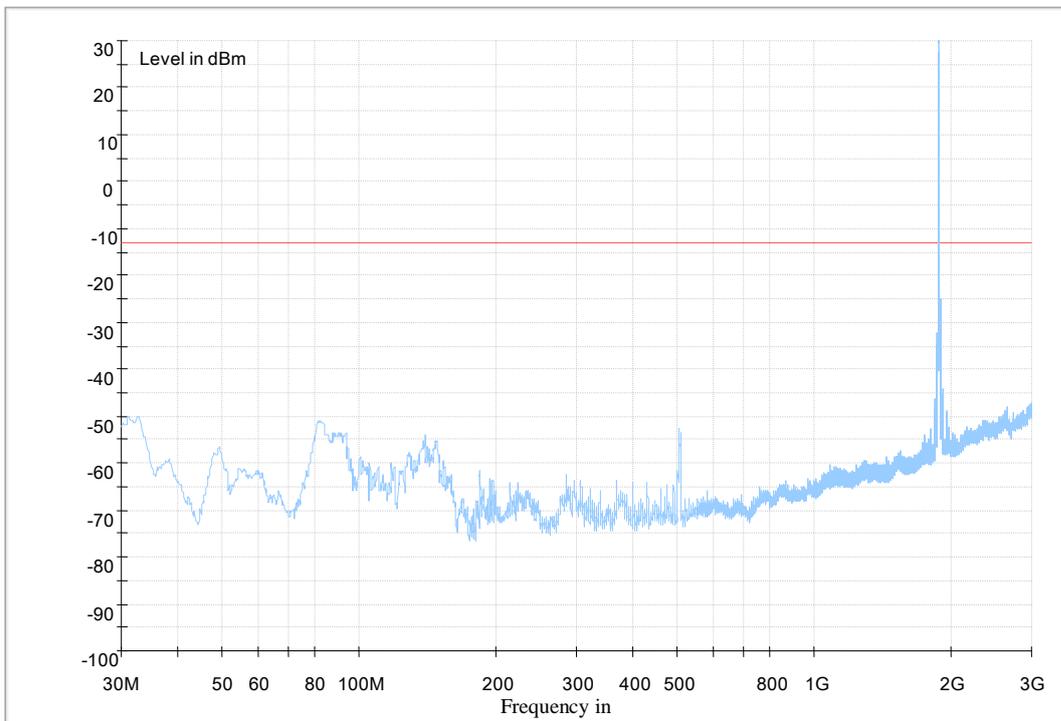
Traffic Mode(18GHz-26.5GHz)



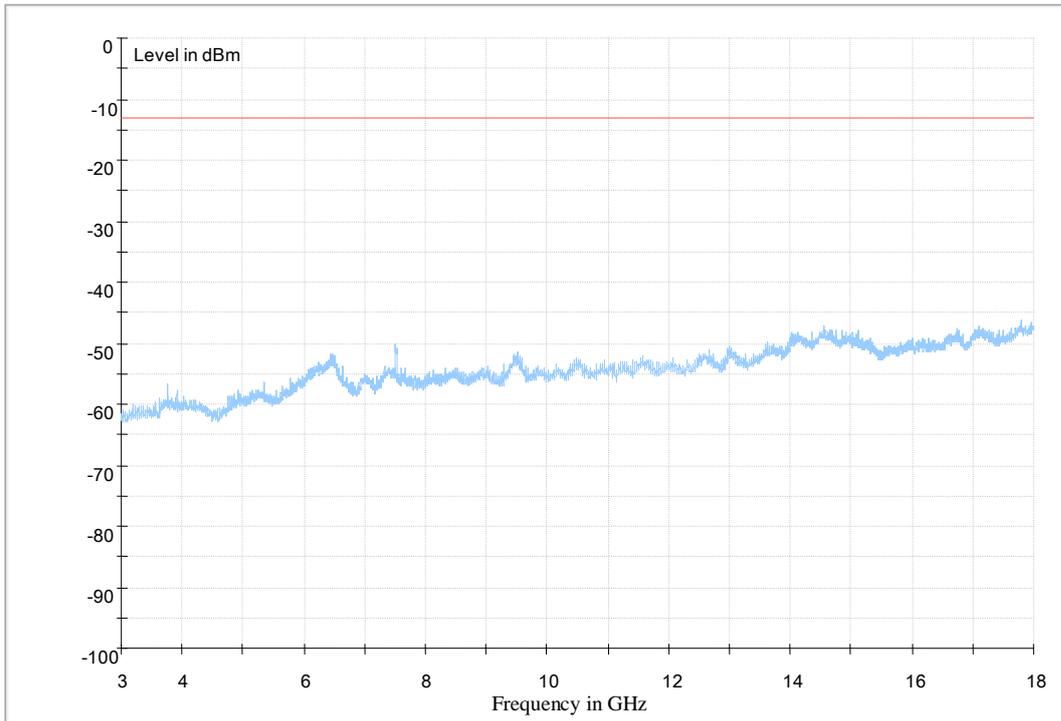
9.3.11 For HSDAP 1900
Traffic Mode(9kHz-30MHz)



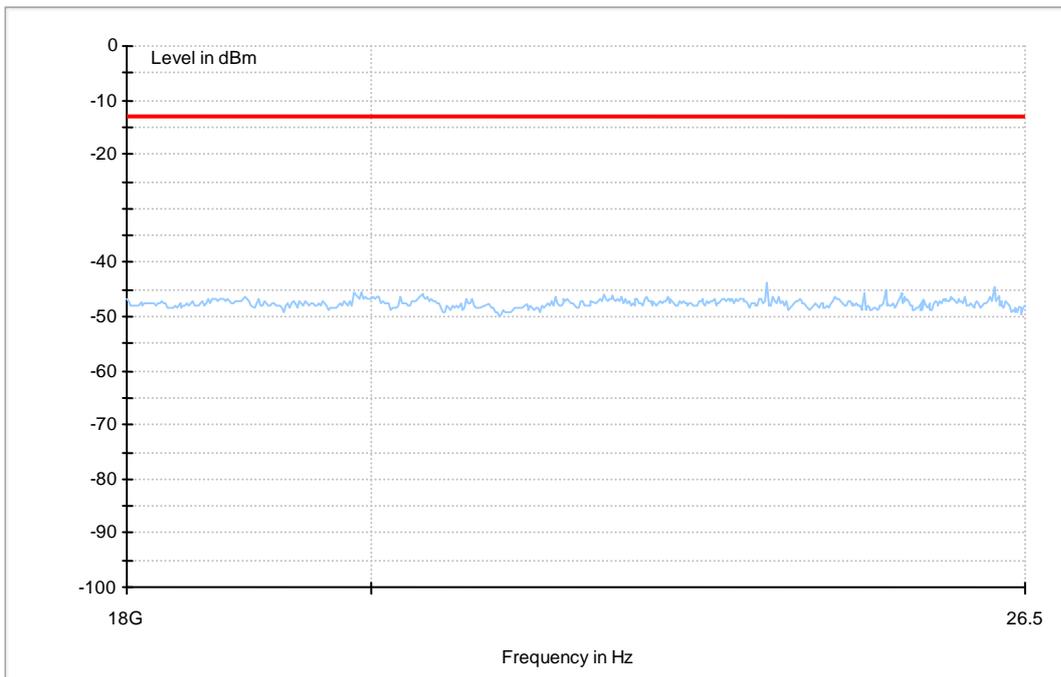
Traffic Mode(30MHz-3GHz)



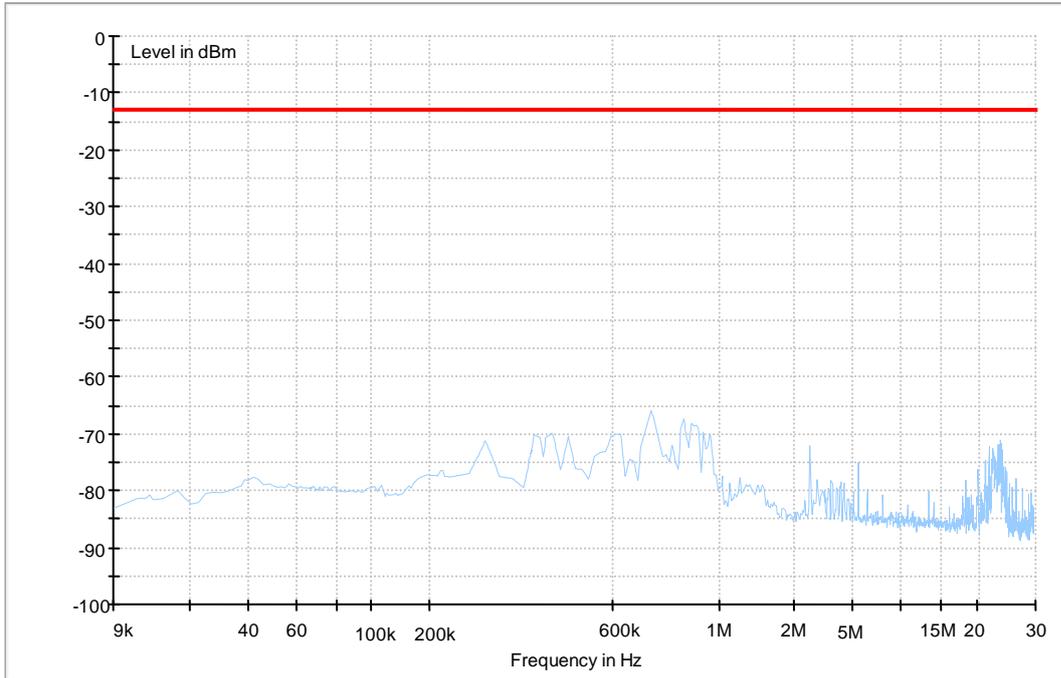
Traffic Mode(3GHz-18GHz)



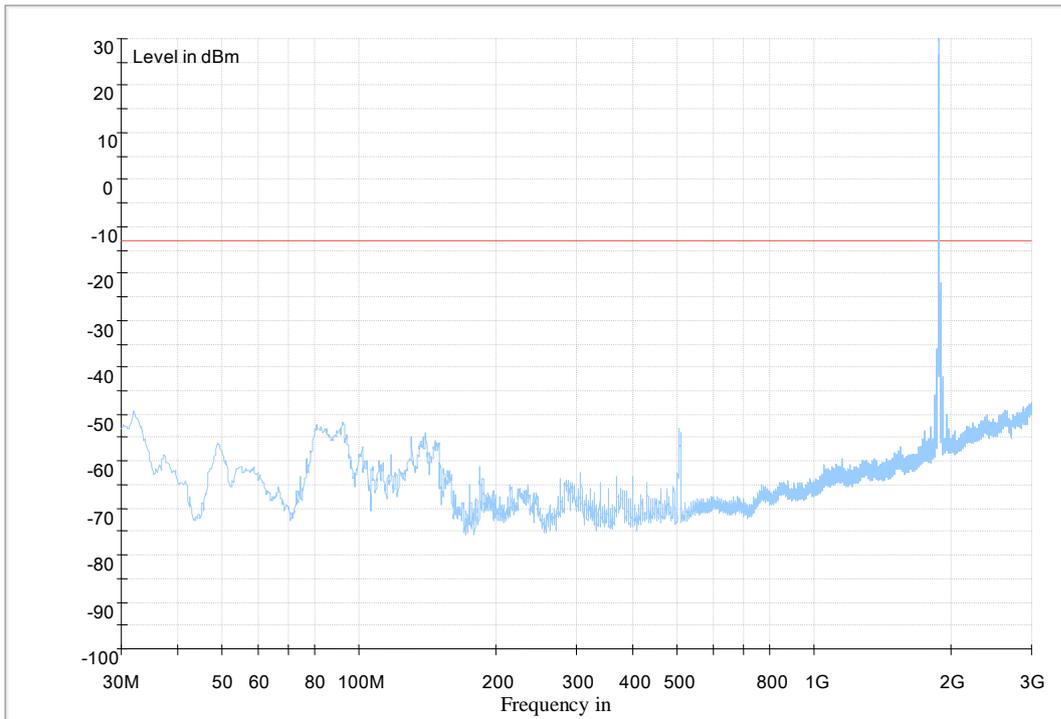
Traffic Mode(18GHz-26.5GHz)



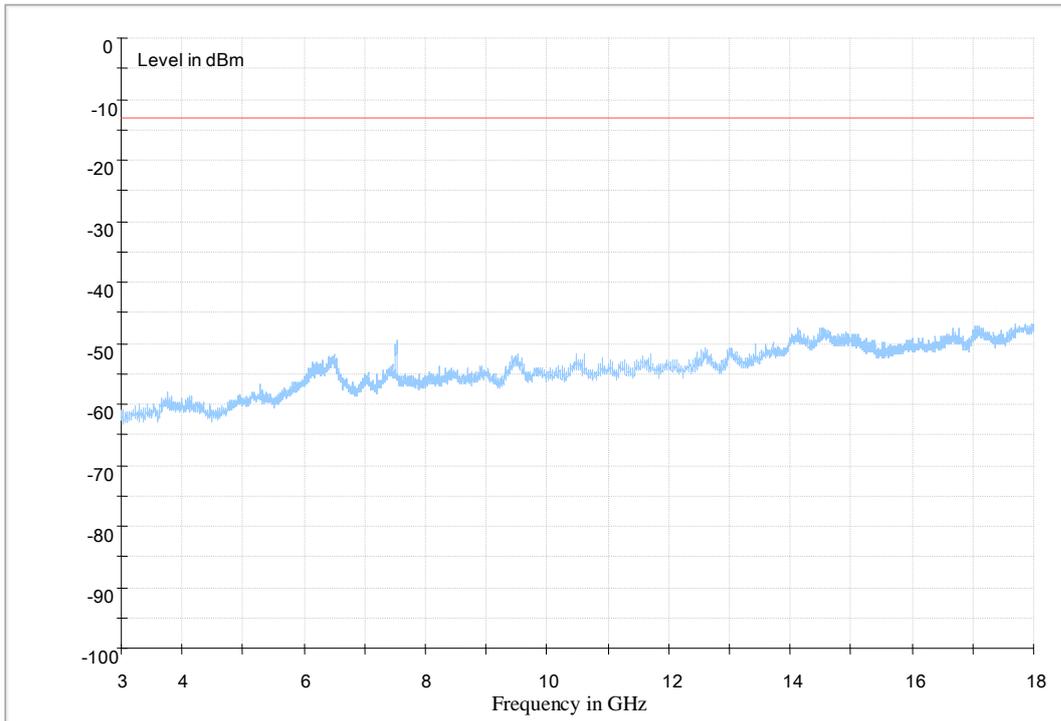
9.3.12 For HSUPA 1900
Traffic Mode(9kHz-30MHz)



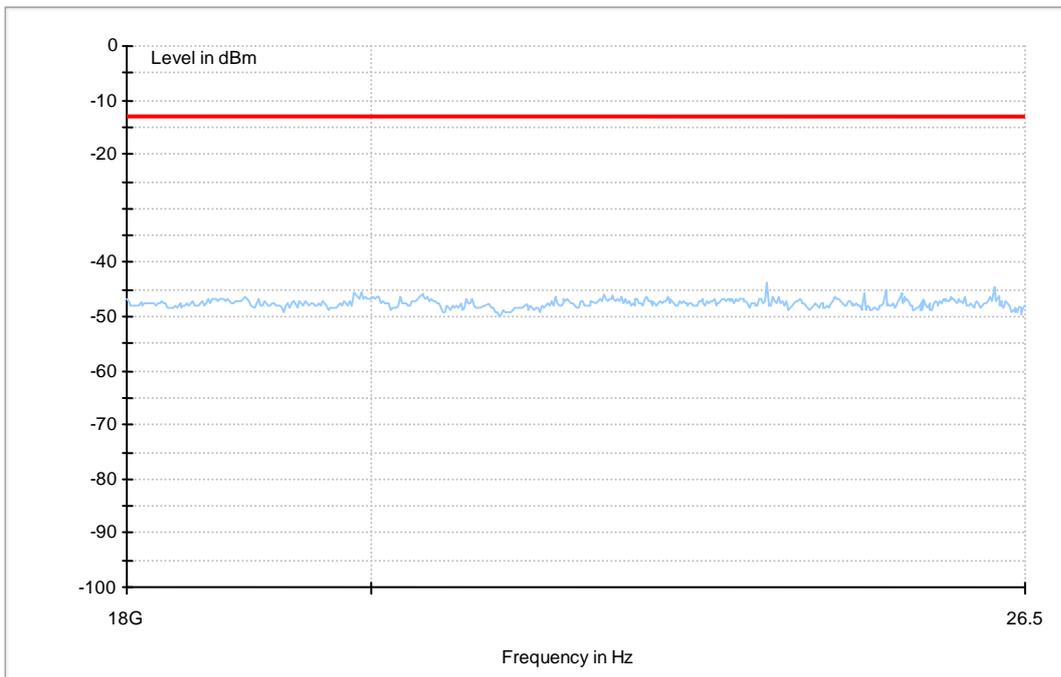
Traffic Mode(30MHz-3GHz)



Traffic Mode(3GHz-18GHz)



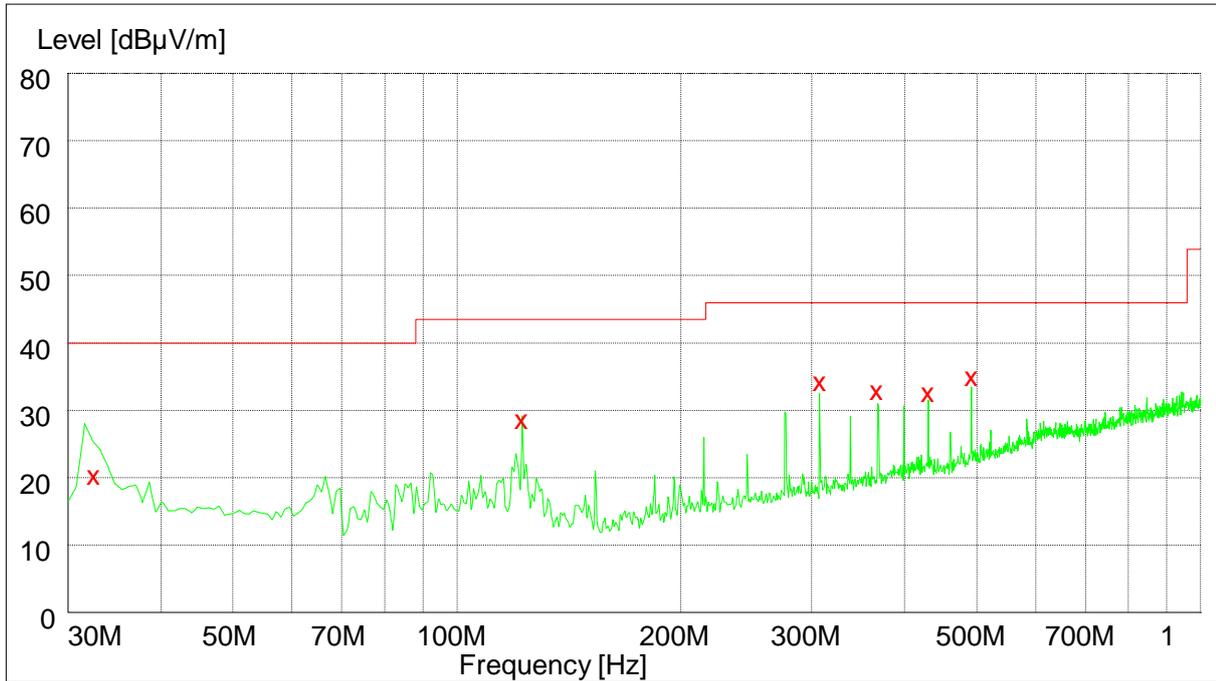
Traffic Mode(18GHz-26.5GHz)



9.4 Receiver Spurious Emission Radiated

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

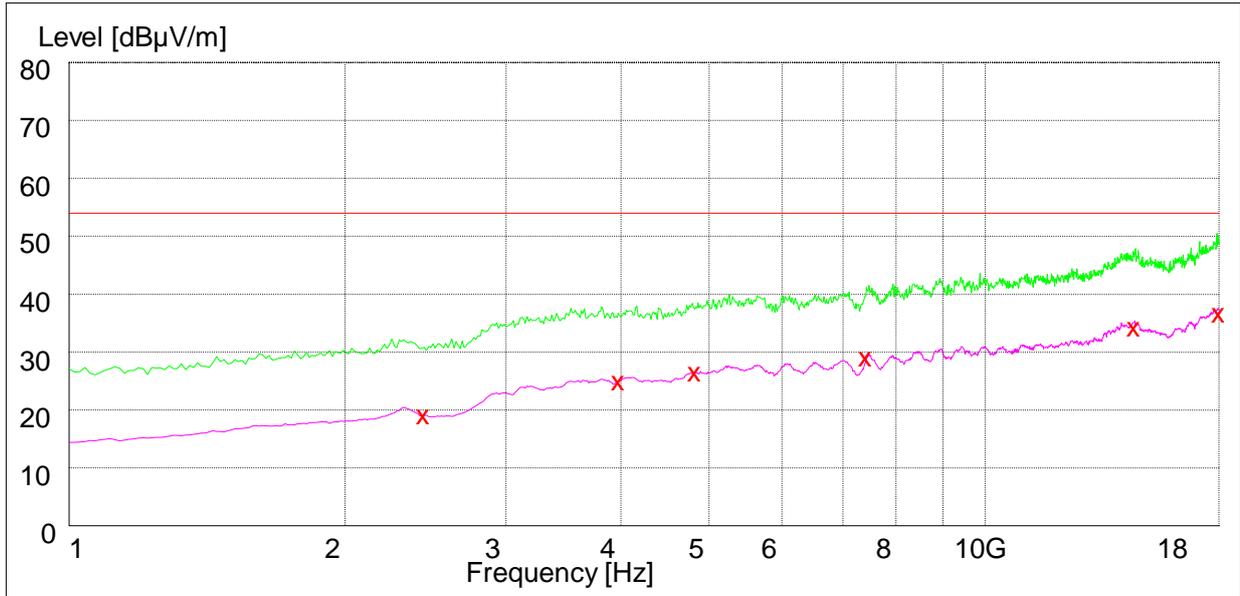
30MHz-1GHz



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
32.452000	20.00	11.7	40.0	20.0	100.0	105.00	VERTICAL
122.884000	27.90	10.1	43.5	15.6	126.0	125.00	VERTICAL
307.212000	34.00	15.7	46.0	12.0	100.0	47.00	HORIZONTAL
368.636000	33.20	17.4	46.0	12.8	100.0	127.00	HORIZONTAL
430.056000	33.40	18.8	46.0	12.6	108.0	175.00	VERTICAL
491.540000	35.10	20.0	46.0	10.9	100.0	164.00	VERTICAL

1GHz-18GHz



MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
2432.000000	19.80	-11.4	54.0	34.2	157.0	133.00	HORIZONTAL
3970.500000	26.50	-5.9	54.0	27.5	101.0	92.00	VERTICAL
4812.000000	27.30	-3.8	54.0	26.7	103.0	165.00	VERTICAL
7366.000000	29.20	0.8	54.0	24.8	136.0	322.00	HORIZONTAL
14525.000000	34.70	12.3	54.0	19.3	101.0	168.00	HORIZONTAL
17974.000000	36.80	17.1	54.0	17.2	127.0	306.00	HORIZONTAL

-----**END**-----