588 West Jindu Road, Songjiang District, Shanghai, China

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Report No.:SHEMO10030022503

x: +86 (0) 21 6191 5655 Page 1 of 99

Tino.Pan@sgs.com

TEST REPORT

Application No.: SHEMO10030022503

Applicant: Shanghai Longcheer3g Technology Co.,Ltd

FCC ID: WLPW660 **IC ID:** 8858A-W660

Equipment Under Test (EUT):

Product Name: GSM/GPRS/EDGE/WCDMA/HSDPA Handhold Phone

Model Name: W660

Standards: FCC part 2, 22H & 24E & 27L

/IC RSS 132 Issue 2,RSS 133 Issue 5, RSS 139 Issue 2

Date of Receipt: Mar 09,2010

Date of Test: Mar 09,2010 to Mar 26,2010

Date of Issue: Mar 30,2010

Test Result : PASS *

Tino Pan E&E Section Manager SGS-CSTC(Shanghai) Co., Ltd. Jack Wu E&E Project Engineer SGS-CSTC(Shanghai)Co.,Ltd

Jack Wu

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^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further details.

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2 Test Summary

Description of Test	FCC Rules	IC Standards	Result
RF Power Output	2.1046(a) 22.913(a) 24.232(b) 27.50(d)(2)	RSS-132,4.4 RSS-133,6.4 RSS-139,6.4	Compliant
Occupied Bandwidth	2.1049(h)	RSS-Gen,4.6	Compliant
Effective Isotropic Radiated Power	2.1046(a) 22.913(a) 24.232(b) 27.50(d)(2)	RSS-132,4.4 RSS-133,6.4 RSS-139,6.4	Compliant
Out of Band Emissions at antenna Terminals and Band Edge	2.1051 22.917(a) 24.238(a) 27.53(g)	RSS-132,4.5 RSS-133,6.5 RSS-139,6.5	Compliant
Field Strength of Spurious Emissions	2.1053 22.917(a) 24.238(a) 27.53(g)	RSS-132,4.5 RSS-133,6.5 RSS-139,6.5	Compliant
.Frequency Stability vs. Temperature and Voltage	2.1055	RSS-132,4.3 RSS-133,6.3 RSS-139,6.3	Compliant
AC Power Line Conducted Emission	1 15 207		Compliant

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4 General Information

4.1 Client Information

Applicant: Shanghai Longcheer3g Technology Co.,Ltd

Address of Applicant: No.1, Building 5, 299 Bisheng Rd, Zhangjiang Hi-Tech Park, Pudong,

Shanghai, P.R. China

Manufacturer: Shanghai Longcheer3g Technology Co.,Ltd

Address of Manufacturer: No.1, Building 5, 299 Bisheng Rd, Zhangjiang Hi-Tech Park, Pudong,

Shanghai, P.R. China

4.2 General Description of E.U.T.

Product Name:	GSM/GPRS/EDGE/WCDMA/HSDPA Handhold Phone		
Model Name:	W660		
Power Supply:	3.8 V DC		

GSM and WCDMA:

	Operating frequency			
Cellular phone standards Frequency Range and Power:	GSM/GPRS/EDGE, 850 Class 12 824.2MHz-848.8MHz		33dBm	
	GSM/GPRS/EDGE, 1900 Class 12	1850.2MHz-1909.8MHz	30dBm	
	WCDMA/ HSDPA. Band IV	1710MHz-1755MHz	24dBm	
	WCDMA/ HSDPA Band V	826.4MHz-846.6MHz	24dBm	
Hardware Version:	W660_344			
Software Version:	LQARZ01_240005_0.0.4			
IMEI:	352129049999833			

4.3 Test Location

Tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shanghai EMC Laboratory

588 West Jindu Road, Songjiang District, Shanghai, China

Tel: +86 21 61915666 Fax: +86 21 61915678

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4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2011-07-29.

• FCC – Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

• Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2011-09-29.

4.5 Test Methodogy

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA-603-C-2004 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

The procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA/HSDPA) was used for EUT and Base station setting.

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5 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	Spectrum Analyzer	Rohde & Schwarz	FSP-30	100324	2009-4-21	2010-4-20
2	EMI test receiver	Rohde & Schwarz	ESU40	100109	2009-6-4	2010-6-3
4	Horn Antenna	Rohde & Schwarz	HF906	100284	2009-04-11	2010-04-10
5	Horn Antenna	Rohde & Schwarz	HF906	100285	2009-10-9	2010-10-8
6	ANTENNA	SCHWARZBECK	BBHA9120D	9120D-679	2009-06-04	2010-06-03
7	Ultra broadband antenna	Rohde & Schwarz	HL562	100227	2009-10-09	2010-10-08
8	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY-2003P	1	2009-10-15	2010-10-14
9	CLAMP METER	FLUKE	316	86080010	2009-04-27	2010-04-26
10	Thermo-Hygrometer ZHICHEN		ZC1-2	01050033	2009-10-21	2010-10-20
11	Digital illuminance meter	TES electrical electronic Corp.	TES-1330A	050602219	2009-10-16	2010-10-15
12	TEMPERATURE& HUMIDITY BOX	KSON	THS-D2C-100	K40723	2008-11-18	2009-11-17
13	High-low temperature cabinet	Shanghai YuanZhen	GW2050		2009-6-27	2010-6-26
14	DC power	KIKUSUI	PMC35-3	NF100260	2010-1-16	2011-1-15
15	Power meter	Rohde & Schwarz	NRP	101641	2009-5-5	2010-5-4
16	UNIVERSAL RADIO COMMUNICATION Rohde & Schwarz TESTER		CMU 200	105964	2009-04-14	2010-04-13
17	UNIVERSAL RADIO COMMUNICATION Rohde & Schwarz TESTER		CMU 200	112012	2009-08-25	2010-08-24
18	Tunable Notch Filter	WRCT800.0/880.0- 0.2/40-5SSK	Wainwright instruments Gmbh	9	2010-1-27	2011-1-26

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Page:

19	Tunable Notch Filter	WRCT1800.0/2000 .0-0.2/40-5SSK	Wainwright instruments Gmbh	11	2010-1-27	2011-1-26
20	Band Reject Filter	and Reject Filter WRCG 824/849- 814/859-40/8SS		1	2010-1-27	2011-1-26
21	Band Reject Filter	WRCG 1850/1910- 1835/1925-40/8SS	Amiden,Ireland	13	2010-1-27	2011-1-26

AC Conducted Measuring Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2009-6-4	2010-6-3
2	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2009-5-8	2010-5-7

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6 Test Results

6.1 E.U.T. test conditions

Power supply: DC 3.8 V

Operating Environment:

Temperature: 20.0 -25.0 °C Humidity: 38-48 % RH Atmospheric Pressure: 992 -1006 mbar

hanghai)Co., Ltd. Page: 9 of 99

6.2 RF Power Output

Test Requirement: Part 2.1046

Part 22.913(a) Mobile station are limited to 7W

Part 24.232(d) peak Power measurement, FCC 24.232(c) Maximum

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Power reduction 3GPP Power Limitation for HSDPA and HSUPA

Part 27.50(d)(2) Fixed,mobile,and portable(hand-held)stations operating in

1710-1755MHz

RSS 132,4.4 The maximum EIRP shall be 11.5 watts for mobile stations. RSS 133,6.4 Mobile stations and hand-held portables are limited to

2 watts maximum e.i.r.p.

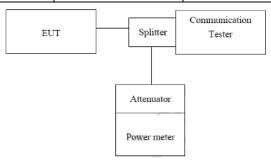
RSS 139,6.4 The average equivalent isotropically radiated power (e.i.r.p.) for fixed, mobile and portable transmitters in the 1710-1755 MHz shall not

exceed 1 watt.

Maximum Output Powers With HSDPA for test:

	Power	Class 3	Power Class 4		
Sub-test	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)	
1	+24	+1.7/-3.7	+21	+2.7/-2.7	
2	+24	+1.7/-3.7	+21	+2.7/-2.7	
3	+23	+2.7/-3.7	+20	+3.7/-2.7	
4	+22	+3.7/-3.7	+19	+4.7/-2.7	

Test Setup



Measurement Setup for testing on Antenna connector.

Test Date: Mar 19,2010

Test Status: Test lowest, middle, highest channel.

Test Procedure:

The transmitter output was connected to calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power in dBm. The power output at the transmitter antenna port was determined by adding the vaule of attenuator to the power meter reading. The procedure of KDB941125 (SAR Measurement Procedures for 3G devices, WCDMA/HSDPA) was used for EUT and Base station setting. RMC 12.2kps is used for testing.

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Measurement Result:

Result:

Mode		GPRS					
Si	lot (Uplink)	1	2	3	4		
Band	Channel		GMSK				
	128	31.2	29.1	27.7	25.7		
850	90	31.2	29.2	27.7	25.7		
	251	31.4	29.4	27.9	25.9		
1900	512	30.2	28.5	27.1	25.6		
	661	30.0	28.5	27.1	25.5		
	810	29.6	28.1	26.7	25.2		

	EGPRS							
1	l	2		3		4		
GMSK	8PSK	GMSK	8PSK	GMSK	8PSK	GMSK	8PSK	
31.2	26.9	29.1	25.3	27.7	23.8	25.7	22.8	
31.2	27.0	29.2	25.4	27.7	23.9	25.7	22.9	
31.4	27.1	29.4	25.5	27.9	24.0	25.9	23.0	
30.2	26.8	28.5	25.2	27.1	24.2	25.6	23.2	
30.0	26.8	28.5	25.1	27.1	24.1	25.5	23.2	
29.6	26.3	28.1	24.9	26.7	23.9	25.2	22.9	

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WCDMA Mode;

	Mode	WCDMA
	Subtests	
Band	Channel	
	1312	21.2
IV	1412	21.4
	1513	21.4
	4132	22.5
V	4182	22.7
	4233	22.5

	Mode	HSDPA(Rel 5)				
Subtests		1	2	3	4	
Band	Channel					
IV (October 2000)	1312	21.1	21.0	20.2	19.3	
	1412	21.3	21.2	20.3	19.4	
(Category 6)	1513	21.3	21.2	20.4	19.4	
.,	4132	22.4	22.3	21.3	20.4	
(Oalassa 0)	4182	22.5	22.4	21.4	20.5	
(Category 6)	4233	22.3	22.3	21.3	20.3	

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6.3 Occupied Bandwidth

Test Requirement: Part 2.1049

RSS Gen 4.6;

Test Date: Mar 16,2010

Test Status: Test lowest, middle, highest channel.

Test Procedure:

The EUT output RF connector was connected with a short a cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW>=3 times RBW, 99%(or -26dBc) bandwidth bandwidth were measured, the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

Test result:

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	824.2	128	0.2436
GSM 850	836.4	189	0.2436
(GMSK)	848.8	251	0.2436

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	824.2	128	0.2452
GSM 850	836.4	189	0.2436
(8-PSK)	848.8	251	0.2436

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	1850.2	512	0.2436
PCS 1900	1880.0	661	0.2436
(GMSK)	1909.8	810	0.2436

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	1850.2	512	0.2468
PCS 1900	1880.0	661	0.2452
(8-PSK)	1909.8	810	0.2452

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EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
WCDMA IV	1712.4	1312	4.1667
	1732.6	1413	4.1667
	1752.6	1513	4.1988

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
WCDMA V	826.4	4132	4.1988
	836	4180	4.1587
	846.6	4233	4.1667

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
HSDPA IV	1712.4	1312	4.1747
	1732.6	1413	4.1667
	1752.6	1513	4.1747

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
HSDPA V	826.4	4132	4.2068
	836	4180	4.1587
	846.6	4233	4.1587

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26dB Bandwidth

EUT Mode	Frequency (MHz)	СН	26dB Bandwidth (MHz)
	824.2	128	0.3190
GSM 850	836.4	189	0.3141
(GMSK)	848.8	251	0.3190

EUT Mode	Frequency (MHz)	СН	26dB Bandwidth (MHz)
	824.2	128	0.3141
GSM 850	836.4	189	0.3157
(8-PSK)	848.8	251	0.3141

EUT Mode	Frequency (MHz)	СН	26dB Bandwidth (MHz)
	1850.2	512	0.3238
PCS 1900	1880.0	661	0.3173
(GMSK)	1909.8	810	0.3173

EUT Mode	Frequency (MHz)	СН	26dB Bandwidth (MHz)
	1850.2	512	0.3125
PCS 1900	1880.0	661	0.3141
(8-PSK)	1909.8	810	0.3109

EUT Mode	Frequency (MHz)	СН	26dB Bandwidth (MHz)
WCDMA IV	1712.4	1312	4.6395
	1732.6	1413	4.6475
	1752.6	1513	4.6395

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EUT Mode	Frequency (MHz)	СН	26dB Bandwidth (MHz)
WCDMA V	826.4	4132	4.6395
	836	4180	4.6315
	846.6	4233	4.6315

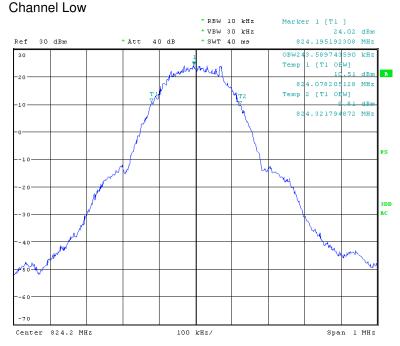
EUT Mode	Frequency (MHz)	СН	26dB Bandwidth (MHz)
HSDPA IV	1712.4	1312	4.6234
	1732.6	1413	4.6315
	1752.6	1513	4.6555

EUT Mode	Frequency (MHz)	СН	26dB Bandwidth (MHz)
HSDPA V	826.4	4132	4.6555
	836	4180	4.6395
	846.6	4233	4.6234

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99% Bandwidth GSM 850 GMSK



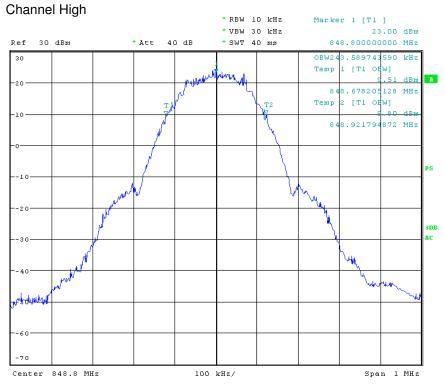
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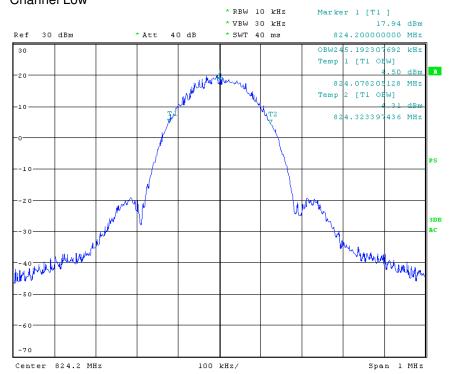
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GSM 850 8-PSK

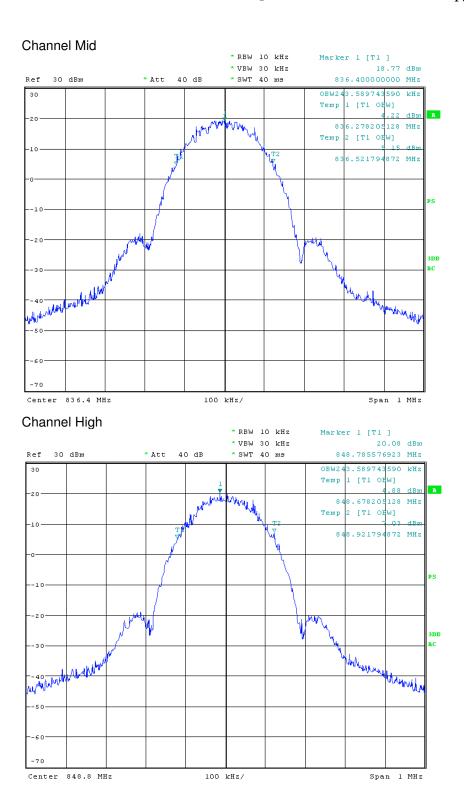
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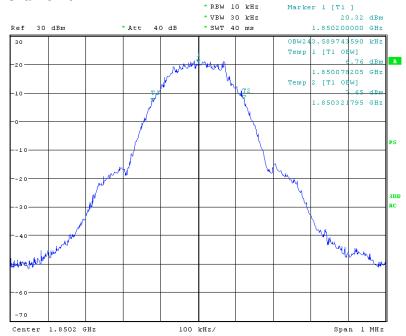


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PCS 1900 GMSK

Channel Low



Channel Mid

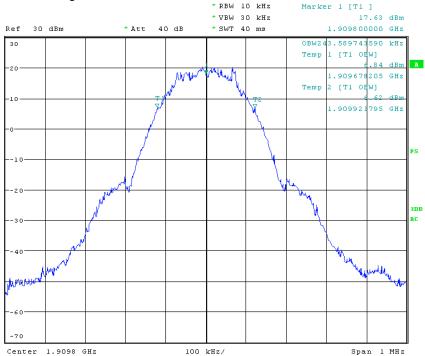


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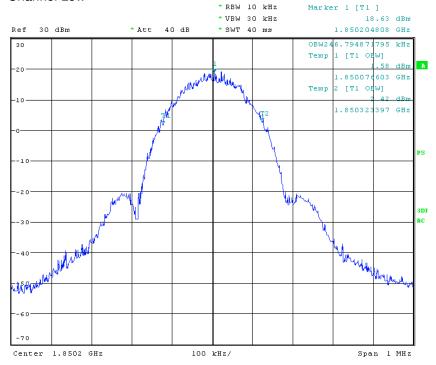
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PCS 1900 8-PSK

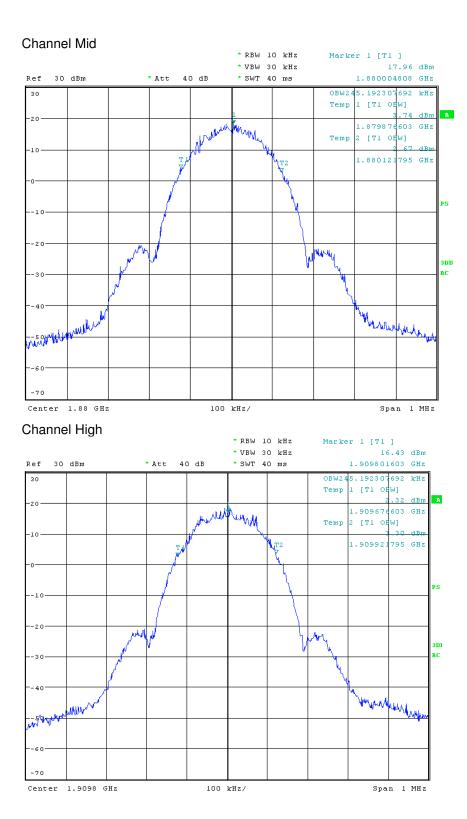
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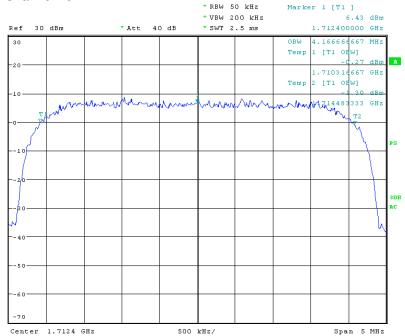


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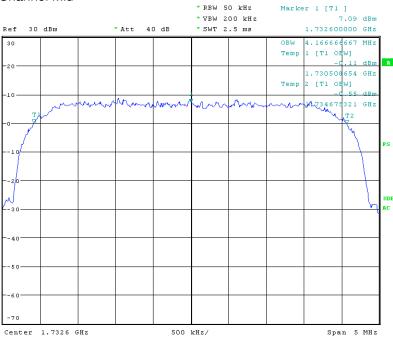
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WCDMA IV





Channel Mid

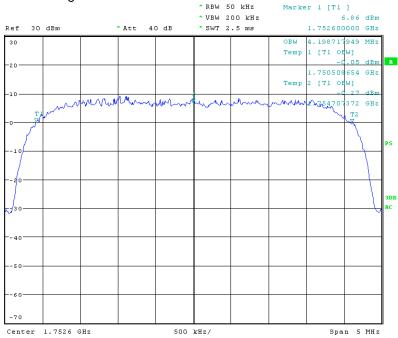


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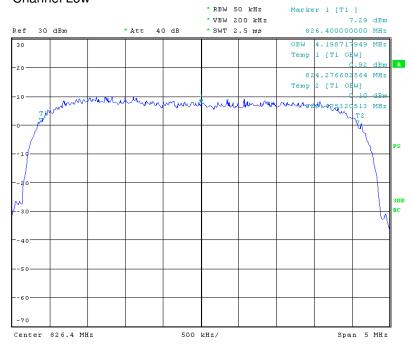
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Channel High



WCDMA V

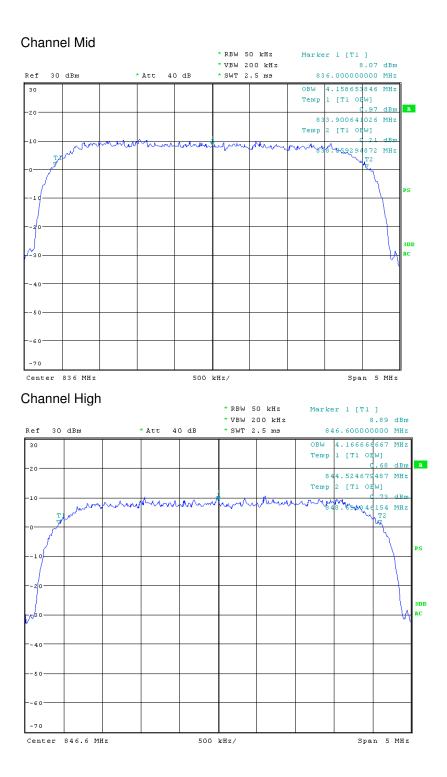
Channel Low



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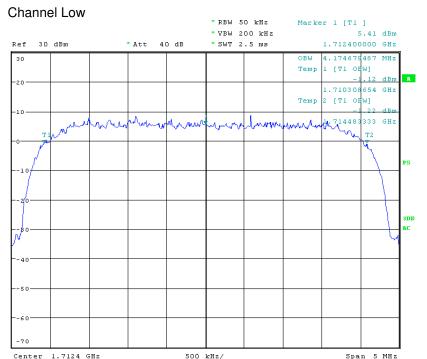
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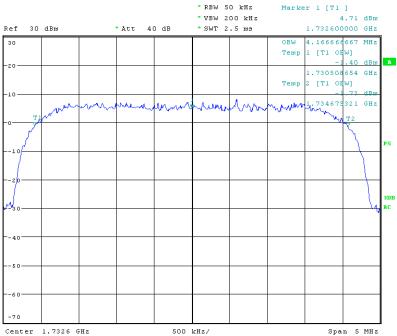
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HSDPA IV



Channel Mid

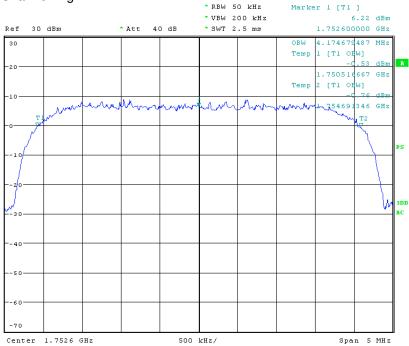


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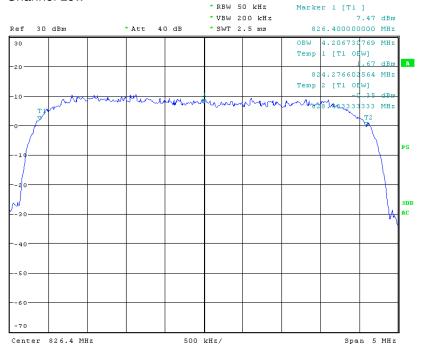
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HSDPA V

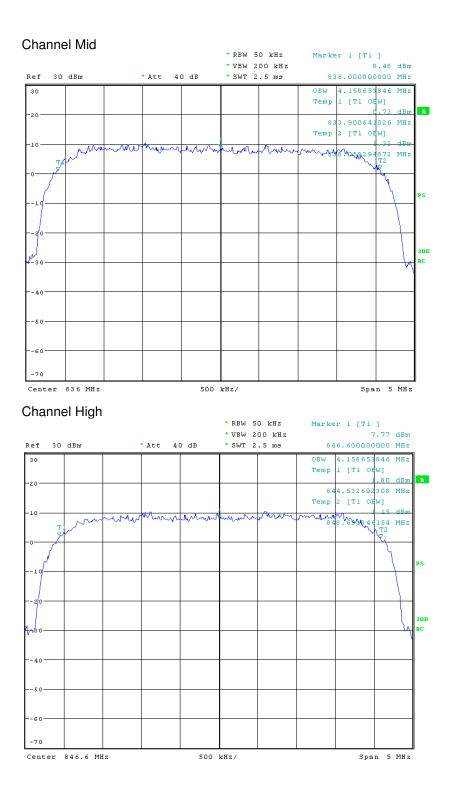
Channel Low



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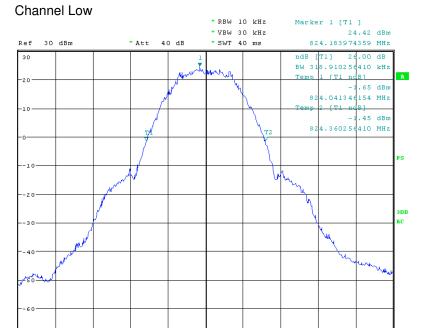
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26dB Bandwidth GSM 850 GMSK



100 kHz/

Center 824.2 MHz



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Span 1 MHz

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GSM850 8-PSK

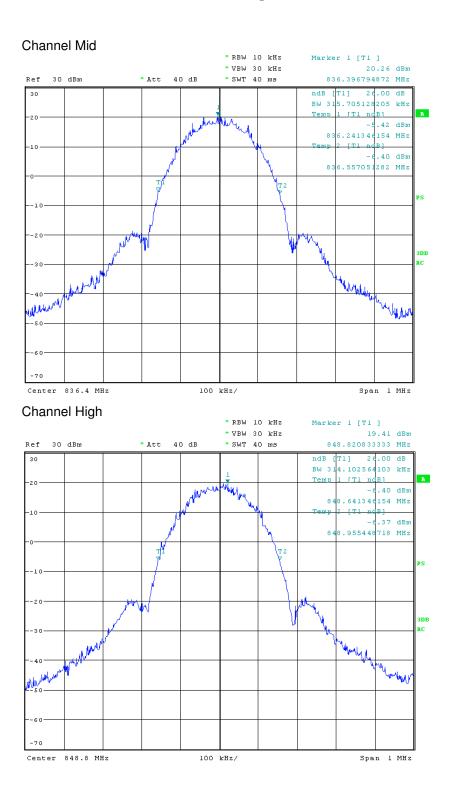
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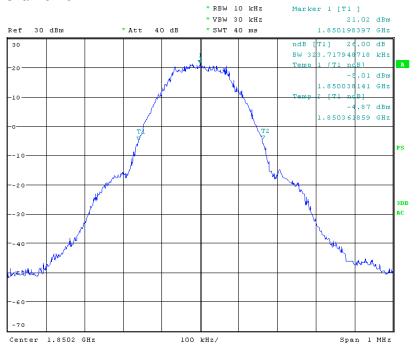


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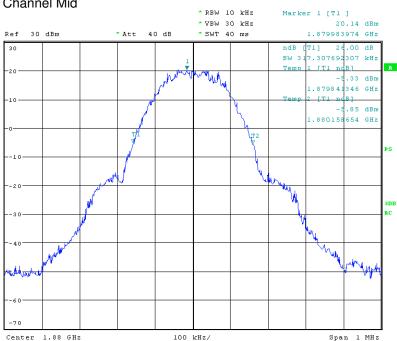
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PCS 1900 GMSK

Channel Low



Channel Mid



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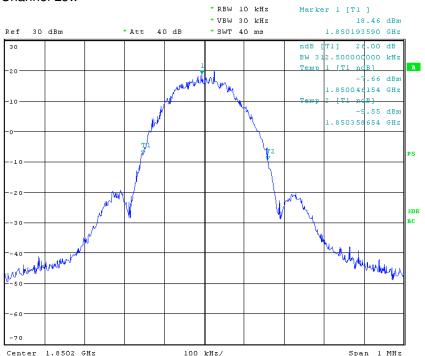
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Channel High



PCS 1900 8-PSK

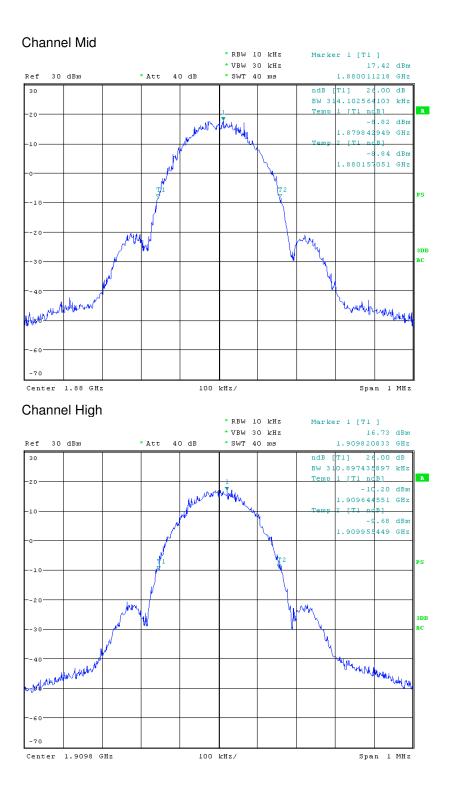
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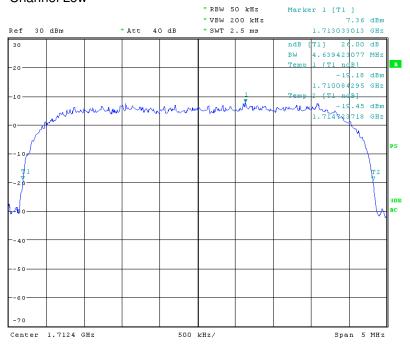
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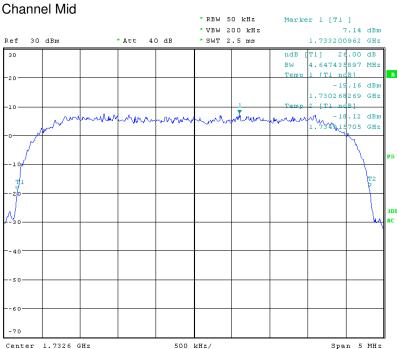
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WCDMA IV Channel Low







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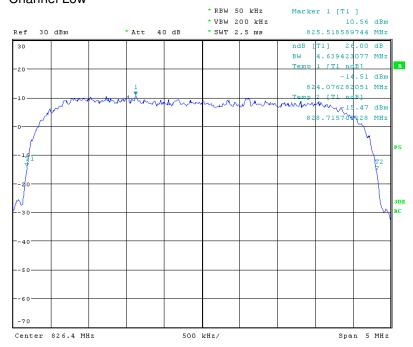
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Channel High



WCDMA V

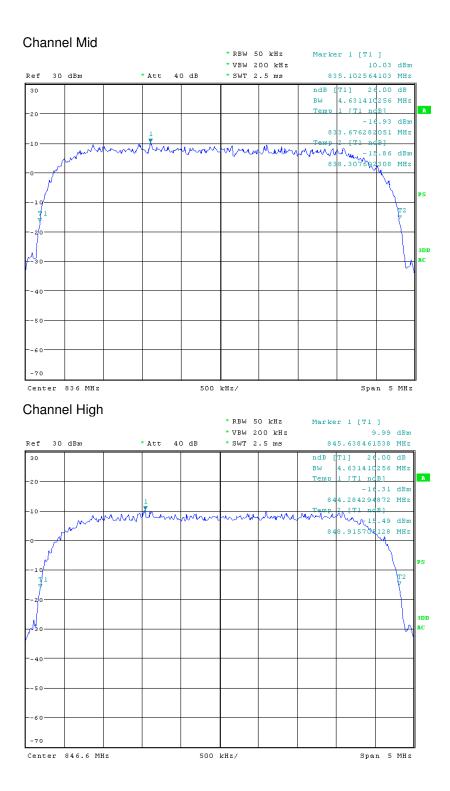
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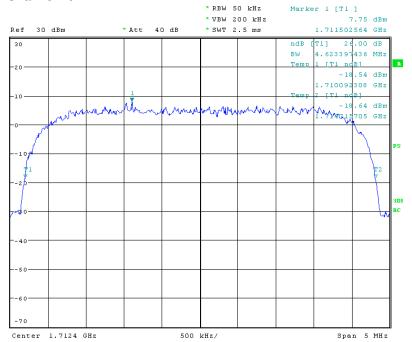


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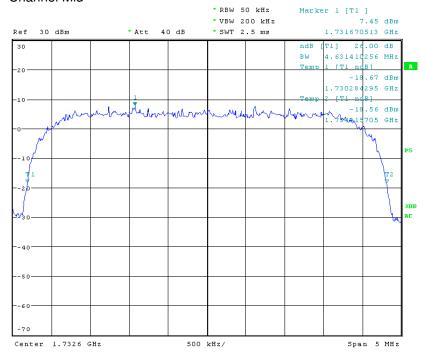
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HSDPA IV

Channel Low



Channel Mid

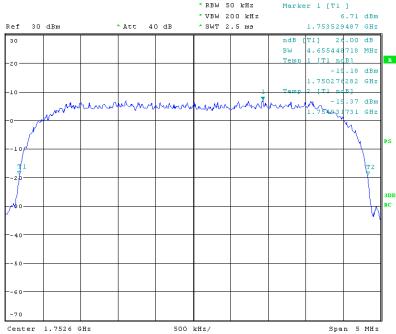


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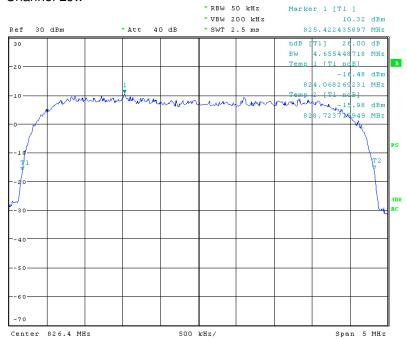
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Channel High



HSDPA V

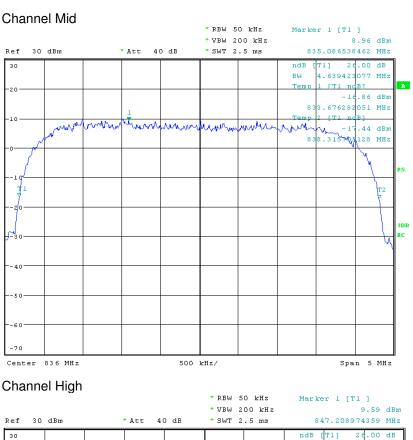
Channel Low

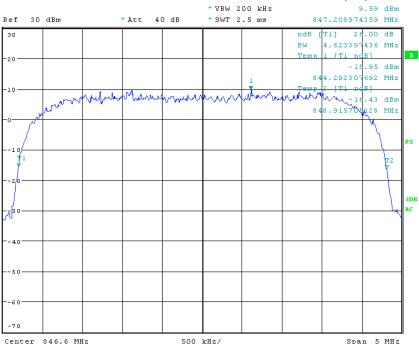


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Shanghai)Co., Ltd.

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6.4 Effective Isotropic Radiated Power

Test Requirement: Part 2.1046

Part 22.913(a) Mobile station are limited to 7W

Part 24.232(d) peak Power measurement, FCC 24.232(c) Maximum

Power reduction 3GPP Power Limitation for HSDPA and HSUPA

Part 27.50(d)(2) Fixed, mobile, and portable (hand-held) stations operating

in 1710-1755MHz

RSS 132,4.4 The maximum EIRP shall be 11.5 watts for mobile stations. RSS 133,6.4 Mobile stations and hand-held portables are limited to

2 watts maximum e.i.r.p.

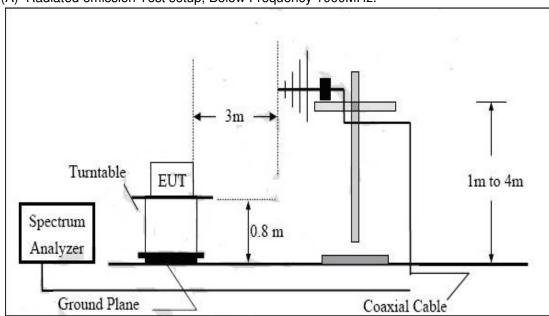
RSS 139,6.4 The average equivalent isotropically radiated power (e.i.r.p.) for fixed, mobile and portable transmitters in the 1710-1755 MHz shall not

exceed 1 watt.

Test Date: Mar 22,2010

Test Setup:

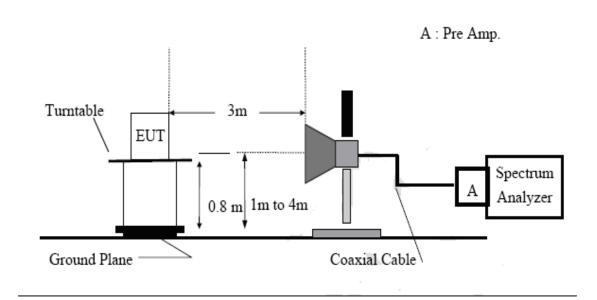
(A) Radiated emission Test setup, Below Frequency 1000MHz:



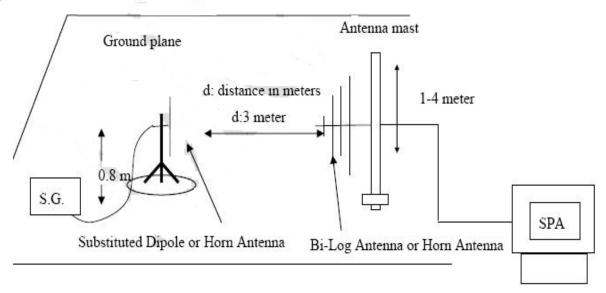
(B) Radiated emission Test setup frequency over 1GHz:

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(C) Substituted Method Test setup:



Test Procedure:

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength(E in dBuV/m) was calculated.

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ERP in frequency band 824.2-848.8MHz were measured using substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follow:

EIRP in frequency band 1850.2-1909.8MHz and 1710-1755MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

ERP=S.G. output (dBm) + Antenna Gain (dBd) - Cable Loss(dB)

EIRP= S.G. output (dBm) + Antenna Gain (dBi) - Cable Loss(dB)

The procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA/HSDPA) was used for EUT and Base station setting.

The field strength(E in dBuV/m) was calculated as below:

3m Field strength(E in dBuV/m) =SPA Reading (dBuV) + Receive Antenna factor (dB/m) + Receive Cable Loss(dB)

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Measurement result:

(1) The RBW, VBW of SPA for frequency
Below 1GHz was RBW=300KHz, VBW=1MHz;
Above 1GHz was RBW=1MHz, VBW=3MHz

EUT mode	Frequen cy(MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	Receive Antenna factor (dB/m)	Receive Cable loss (dB)	Field Strength (dBuV/m)
	824.2	128	Н	V	96.87	22.5	3.45	122.82
0014				Н	95.74	22.5	3.45	121.69
GSM 850	836.4	189	Н	V	94.36	22.6	3.48	120.44
(GMSK)				Н	94.16	22.6	3.48	120.24
(GIVISK)	848.8	251	Н	V	97.12	22.8	3.5	123.42
				Н	94.11	22.8	3.5	120.41

S.G. output (dBm)	Antenna Gain (dBd)	TX Cable loss (dB)	ERP (dBm)	Limit (dBm)
15.81	8.4	2.89	21.32	38.45
15.27	8.4	2.89	20.78	38.45
15.04	8.45	2.93	20.56	38.45
14.64	8.45	2.93	20.16	38.45
15.35	8.76	2.97	21.14	38.45
14.19	8.76	2.97	19.98	38.45

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EUT mode	Frequen cy(MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	Receive Antenna factor (dB/m)	Receive Cable loss (dB)	Field Strength (dBuV/m)
	1850.2	512	Н	V	93.69	25.2	4.1	122.99
			``	Н	92.84	25.2	4.1	122.14
PCS	1880.0	661	Н	V	93.44	25.4	4.12	122.96
1900				Н	92.64	25.4	4.12	122.16
(GMSK)	1909.8	810	Н	V	93.39	25.6	4.15	123.14
	1000.0	310	• • •	Н	91.78	25.6	4.15	121.53

S.G. output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)
17.34	7.05	4.45	19.94	33
16.28	7.05	4.45	18.88	33
17.22	7.13	4.57	19.78	33
16.11	7.13	4.57	18.67	33
16.57	7.25	4.48	19.34	33
15.84	7.25	4.48	18.61	33

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EUT mode	Frequen cy(MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	Receive Antenna factor (dB/m)	Receive Cable loss (dB)	Field Strength (dBuV/m)
	824.2	128	Н	V	95.11	22.5	3.45	121.06
	_			Н	94.87	22.5	3.45	120.82
GSM	836.6	190	Н	V	94.61	22.6	3.48	120.69
850				Н	94.57	22.6	3.48	120.65
(8PSK)	848.8	251	Н	V	95.03	22.8	3.5	121.33
				Н	93.97	22.8	3.5	120.27

S.G. output (dBm)	Antenna Gain (dBd)	Cable loss (dB)	ERP (dBm)	Limit (dBm)
13.15	8.4	2.89	18.66	38.45
11.97	8.4	2.89	17.48	38.45
11.7	8.45	2.93	17.22	38.45
11.87	8.45	2.93	17.39	38.45
12.92	8.76	2.97	18.71	38.45
11.58	8.76	2.97	17.37	38.45

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EUT mode	Frequen cy(MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	Receive Antenna factor (dB/m)	Receive Cable loss (dB)	Field Strength (dBuV/m)
	1850.2	512	Н	V	91.55	25.2	4.1	120.85
				Н	89.87	25.2	4.1	119.17
PCS	1880.0	661	Н	V	91.32	25.4	4.12	120.84
1900				Н	90.29	25.4	4.12	119.81
(8PSK)	1909.8	810	Н	V	91.41	25.6	4.15	121.16
				Н	90.01	25.6	4.15	119.76

S.G. output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)
15.14	7.05	4.45	17.74	33
14.27	7.05	4.45	16.87	33
15.09	7.13	4.57	17.65	33
14.38	7.13	4.57	16.94	33
14.56	7.25	4.48	17.33	33
13.8	7.25	4.48	16.57	33

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(2) The RBW, VBW of SPA for frequency Below 1GHz was RBW=5MHz, VBW=5MHz Above 1GHz was RBW=5MHz, VBW=5MHz

EUT mode	Frequen cy(MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	Receive Antenna factor (dB/m)	Receive Cable loss (dB)	Field Strength (dBuV/m)
	1712.4	1312	Н	V	91.34	25.2	4.01	120.55
				Н	90.41	25.2	4.01	119.62
WCDMA	1732.6	1413	Н	٧	91.16	25.4	4.03	120.59
Band IV				Н	90.32	25.4	4.03	119.75
	1752.6	1513	Н	V	91.43	25.6	4.05	121.08
				Н	90.29	25.6	4.05	119.94

S.G. output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)
12.11	6.89	4.33	14.67	30
11.43	6.89	4.33	13.99	30
12.07	6.95	4.48	14.54	30
11.37	6.95	4.48	13.84	30
12.06	7.01	4.31	14.76	30
11.01	7.01	4.31	13.71	30

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EUT mode	Frequen cy(MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	Receive Antenna factor (dB/m)	Receive Cable loss (dB)	Field Strength (dBuV/m)
	826.4	4132	Н	V	90.45	22.5	3.46	116.41
				Н	89.39	22.5	3.46	115.35
WCDMA	836.0	4180	Н	٧	90.21	22.6	3.48	116.29
Band V				Н	88.47	22.6	3.48	114.55
	846.6	4233	Н	V	90.31	22.8	3.51	116.62
				Н	88.14	22.8	3.51	114.45

S.G. output (dBm)	Antenna Gain (dBd)	Cable loss (dB)	ERP (dBm)	Limit (dBm)
9.81	8.42	2.9	15.33	38.45
8.69	8.42	2.9	14.21	38.45
9.66	8.44	2.93	15.17	38.45
8.86	8.44	2.93	14.37	38.45
9.7	8.7	2.97	15.43	38.45
8.21	8.7	2.97	13.94	38.45

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6.5 Out of band emissions at antenna Terminals

6.5.1 Band edges emissions

Test Requirement: Part 2.1051,

RSS 132, 4.5.1;RSS 133, 6.5.1(a)(i),(b),RSS-139,6.5

FCC part 22.917(a), 24.238(a),27.53(g) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specification in the instruction manual and/or alignment procedure, shall not be less than 43+10log(Mean power in watts) dBc below the mean power output outside a license's frequency

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block(-13dBm).

Test Date: Mar 16, 2010

Test Procedure:

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emission is any up to 10th harmonic.

For the out of band: set RBW, VBW=1MHz, stat=30MHz, stop= 10 th harmonic. Limit= --13dBm

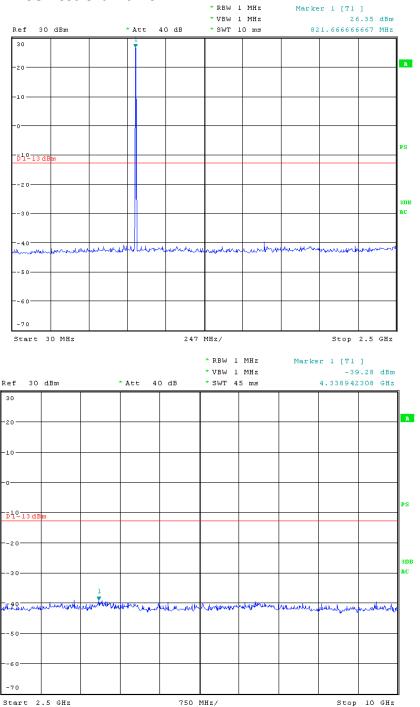
Band Edge requirements: In 1Mhz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 % of bandwidth of fundamental emission of the transmitter any be employed to measure the out of band emission. Limit=-13dBm.

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Measurement result:

GSM 850 Channel Low

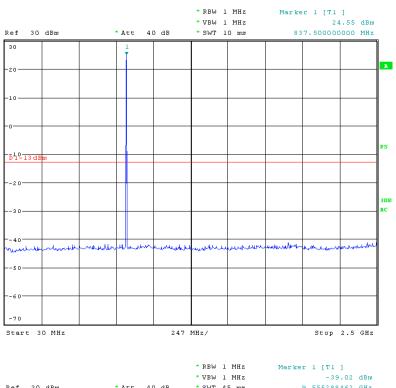


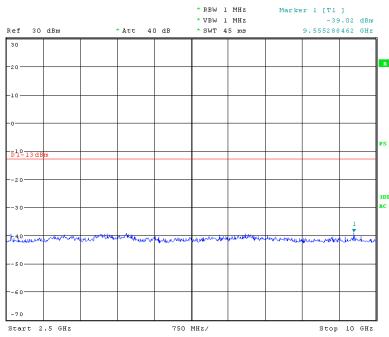
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GSM 850 Channel Mid

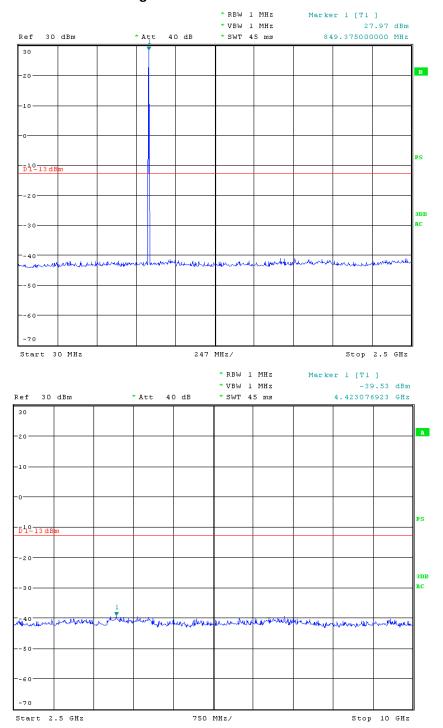




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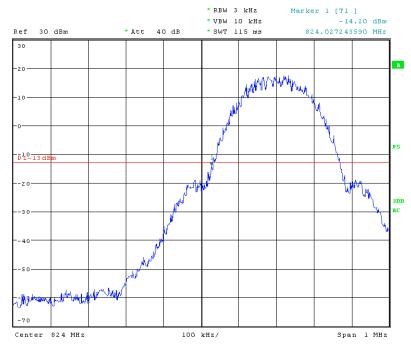
GSM 850 Channel High



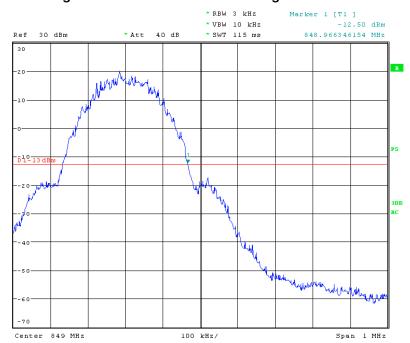
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Band Edge emission GSM 850 Channel Low



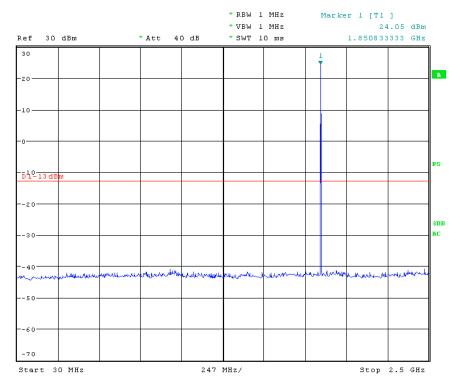
Band Edge emission GSM 850 Channel high

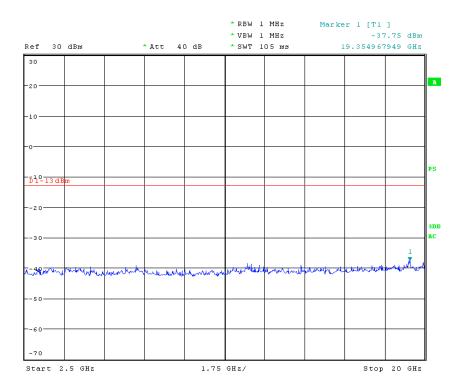


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PCS 1900 Channel Low

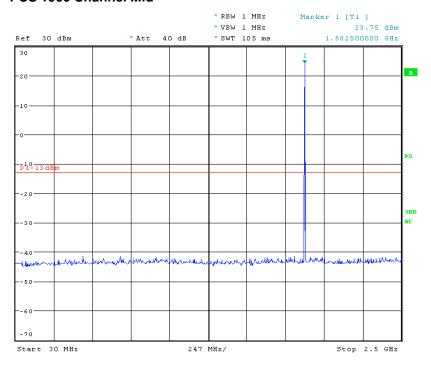


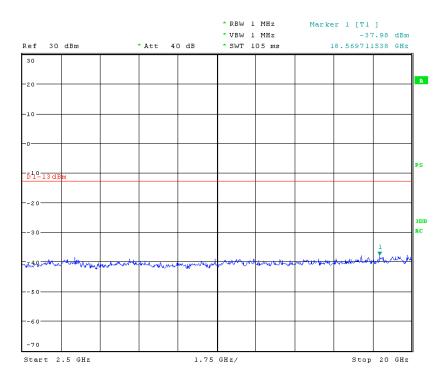


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PCS 1900 Channel Mid

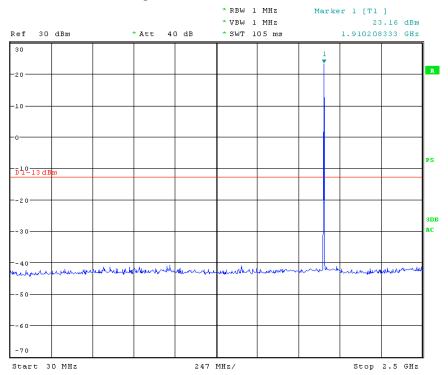


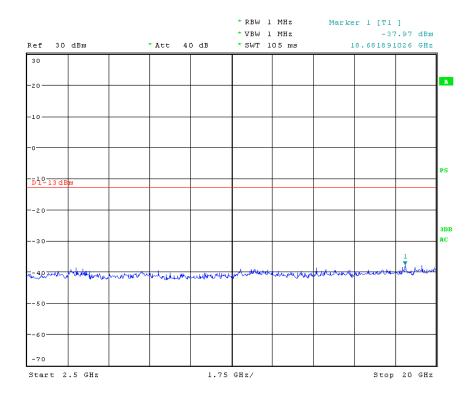


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PCS 1900 Channel High



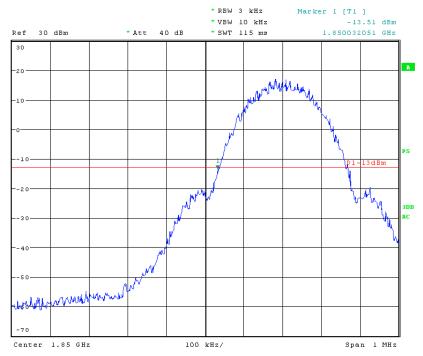


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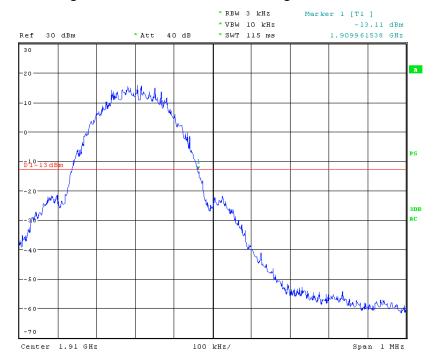
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Band Edge emission PCS 1900 Channel Low



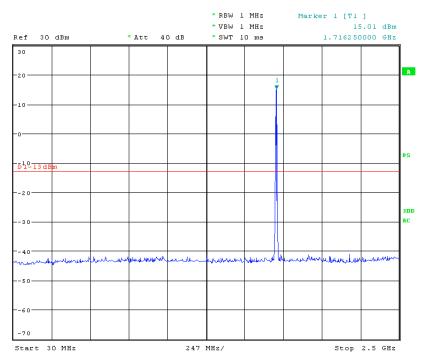
Band Edge emission PCS 1900 Channel high

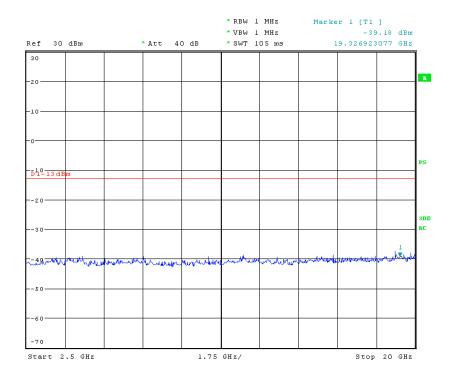


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WCDMA IV Channel low

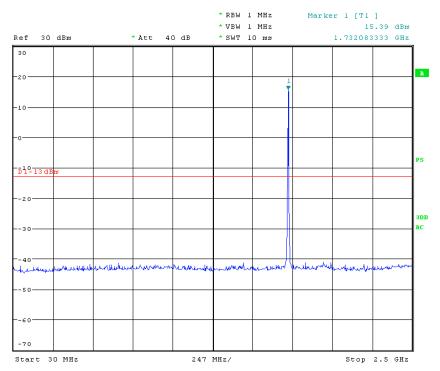


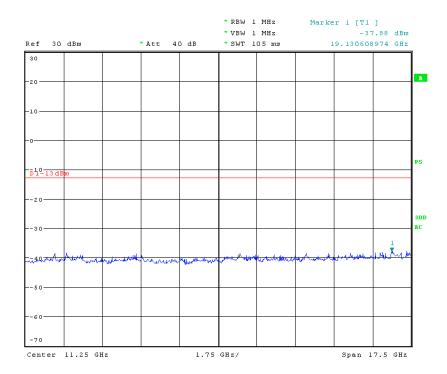


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WCDMA IV Channel Mid

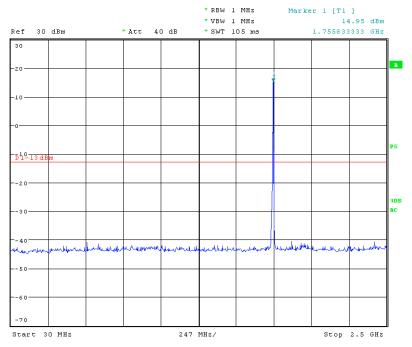


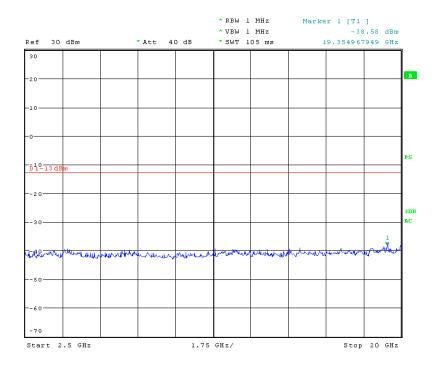


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WCDMA IV Channel High

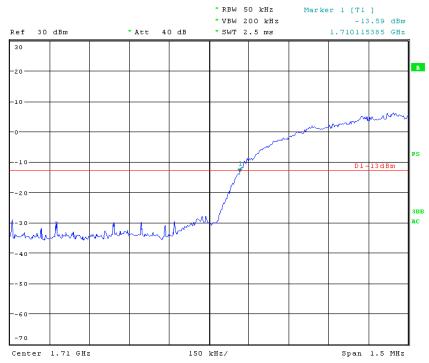




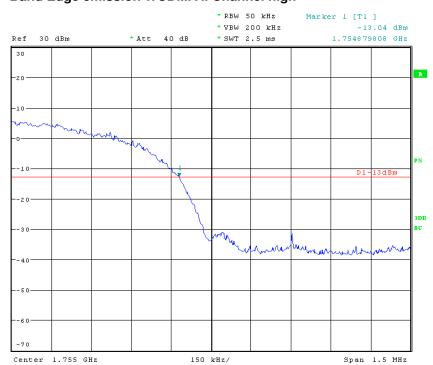
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Band Edge emission WCDMA IV Channel Low



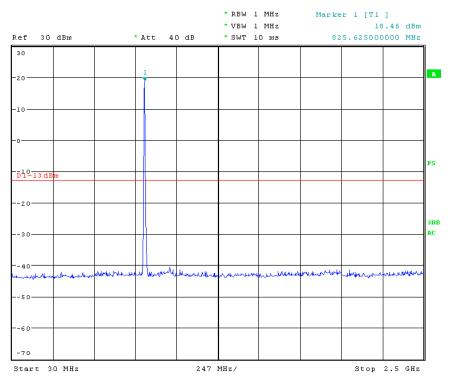
Band Edge emission WCDMA II Channel high

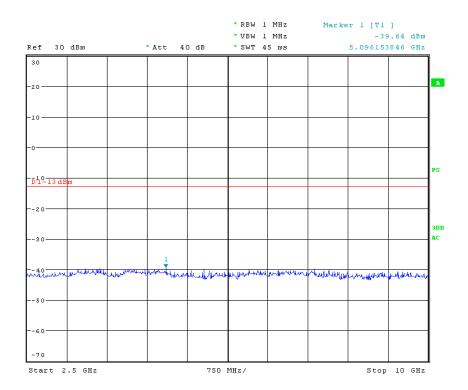


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WCDMA V Channel Low



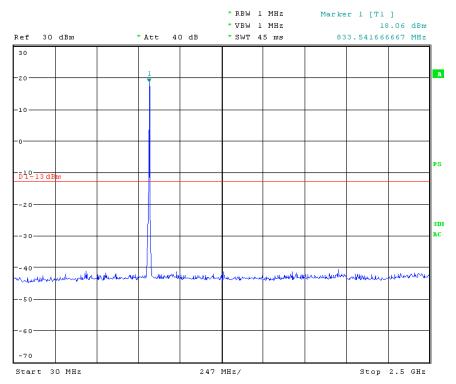


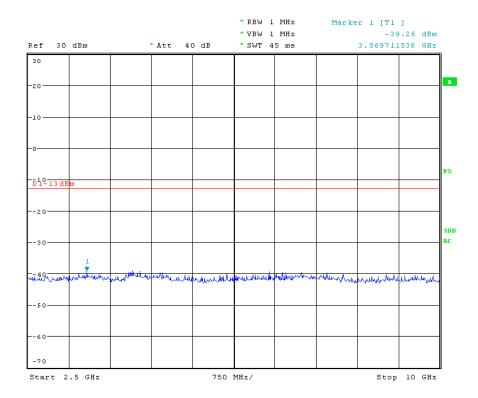
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WCDMA V Channel Mid



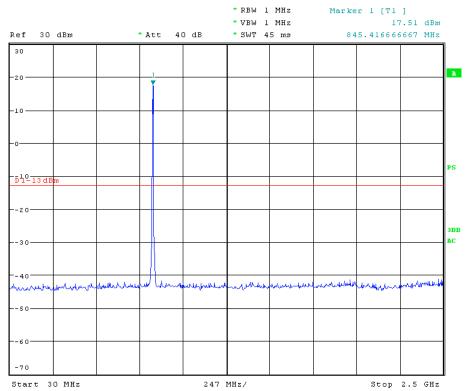


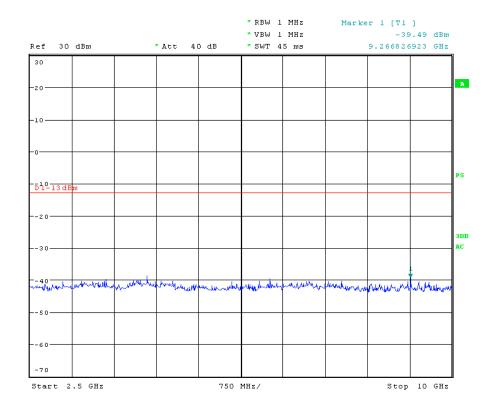
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WCDMA V Channel High



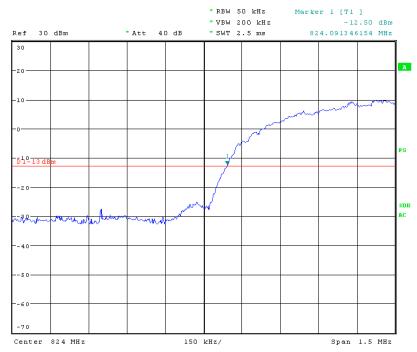


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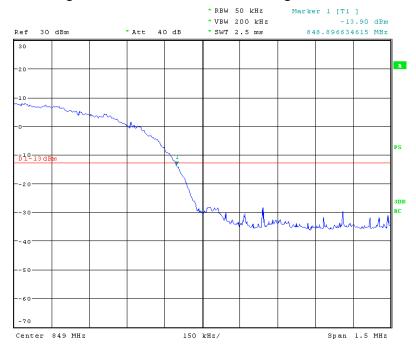
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Band Edge emission WCDMA V Channel Low



Band Edge emission WCDMA V Channel high



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6.6 Field Strength of Radiated Spurious Emissions

Test Requirement: Part 2.1053

RSS 132, 4.5.1; RSS 133, 6.5.1(a)(i),(b), RSS-139, 6.5

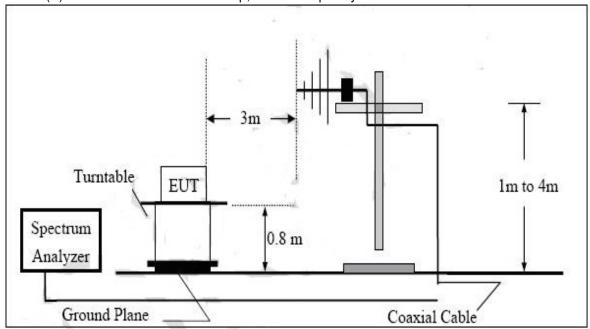
FCC part 22.917(a), 24.238(a),27.53(g) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specification in the instruction manual and/or alignment procedure, shall not be less than 43+10log(Mean power in watts) dBc below the mean power output outside a license's frequency

block(-13dBm).

Test Date: Mar 22,2010 to Mar 23,2010

Test Setup:

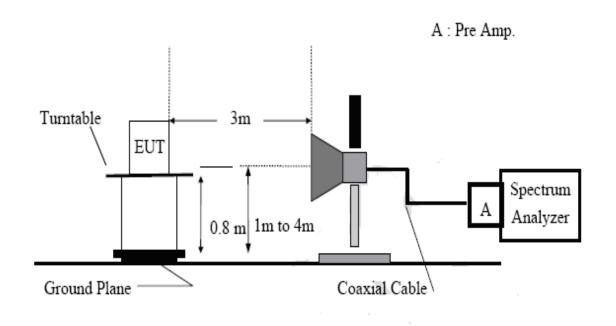
(A) Radiated emission Test setup, Below Frequency 1000MHz:



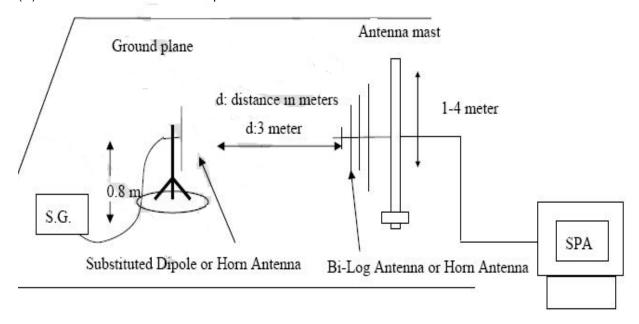
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(B) Radiated emission Test setup frequency over 1GHz:



(C) Substituted Method Test setup:



Test Procedure:

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the measurement, the EUT was communication with the station. The highest

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emission was recorded with the rotation of the turntable and lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2-848.8MHz were measured using substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follow:

EIRP in frequency band 1850.5-1909.8MHz and 1710-1755MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

ERP=S.G. output (dBm) + Antenna Gain (dBd)-Cable Loss (dB) EIRP=S.G. output (dBm) + Antenna Gain (dBi)-Cable Loss (dB)

Radiated spurious Emission Measurement Result: GSM 850 mode

Operation mode: TX CH Low mode Fundamental Frequency: 824.2MHz

Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-59.05	2.6	1	-57.45	-13	44.45
200.00	Н	-65.84	9.1	1.42	-58.16	-13	45.16
800.00	Н	-62.31	8.7	2.86	-56.47	-13	43.47
1648.40	Н	-50.9	6.95	4.17	-48.12	-13	35.12
2472.60	Н	-53.28	8.35	5.24	-50.17	-13	37.17
3296.80	Н	-49.29	8.15	6.11	-47.25	-13	34.25
4121.00	Н	-48.26	8.45	6.94	-46.75	-13	33.75
100.00	V	-58.38	2.6	1	-56.78	-13	43.78
200.00	V	-65.04	9.1	1.42	-57.36	-13	44.36
800.00	V	-61.27	8.7	2.86	-55.43	-13	42.43
1648.40	V	-48	6.95	4.17	-45.22	-13	32.22
2472.60	V	-50.12	8.35	5.24	-47.01	-13	34.01
3296.80	V	-48.91	8.15	6.11	-46.87	-13	33.87
4121.00	V	-48.9	8.45	6.94	-47.39	-13	34.39

Remark:

- 1 emission behaviors belong to narrowband spurious emission.
- 2 The result basic equation calculation is as follow:

ERP/EIRP(dBm)=S.G. Output(dBm) + Antenna Gain(dBd/dBi)-Cable Loss

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Radiated spurious Emission Measurement Result: GSM 850 mode

Operation mode: TX CH Mid mode Fundamental Frequency: 836.40MHz

Fundamental Frequency: 636.40MHZ								
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)	
100.00	Н	-59.93	2.6	1	-58.33	-13	45.33	
200.00	Н	-65.62	9.1	1.42	-57.94	-13	44.94	
800.00	Н	-62.28	8.7	2.86	-56.44	-13	43.44	
1672.80	Н	-49.04	6.95	4.2	-46.29	-13	33.29	
2509.20	Н	-50.6	8.35	5.36	-47.61	-13	34.61	
3345.60	Н	-48	8.15	6.25	-46.1	-13	33.1	
4182.00	Н	-48.38	8.45	6.98	-46.91	-13	33.91	
100.00	V	-59.51	2.6	1	-57.91	-13	44.91	
200.00	V	-65.04	9.1	1.42	-57.36	-13	44.36	
800.00	V	-60.98	8.7	2.86	-55.14	-13	42.14	
1672.80	V	-48.66	6.95	4.2	-45.91	-13	32.91	
2509.20	V	-49.1	8.35	5.36	-46.11	-13	33.11	
3345.60	V	-48.4	8.15	6.25	-46.5	-13	33.5	
4182.00	V	-48.66	8.45	6.98	-47.19	-13	34.19	

Remark:

- 1 emission behaviors belong to narrowband spurious emission.
- 2 The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: GSM 850 mode

Operation mode: TX CH High mode Fundamental Frequency: 848.8MHz

Fundamental Frequency: 848.8MHz								
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)	
100.00	Н	-59.26	2.6	1	-57.66	-13	44.66	
200.00	Н	-65.8	9.1	1.42	-58.12	-13	45.12	
800.00	Н	-62.33	8.7	2.86	-56.49	-13	43.49	
1697.60	Н	-47.74	6.95	4.22	-45.01	-13	32.01	
2546.40	Н	-47.27	8.35	5.39	-44.31	-13	31.31	
3395.20	Н	-48.96	8.15	6.35	-47.16	-13	34.16	
4244.00	Н	-47.96	8.45	7.04	-46.55	-13	33.55	
100.00	V	-58.7	2.6	1	-57.1	-13	44.1	
200.00	V	-64.17	9.1	1.42	-56.49	-13	43.49	
800.00	V	-61.98	8.7	2.86	-56.14	-13	43.14	
1697.60	V	-47.79	6.95	4.22	-45.06	-13	32.06	
2546.40	V	-47.12	8.35	5.39	-44.16	-13	31.16	
3395.20	V	-48.17	8.15	6.35	-46.37	-13	33.37	
4244.00	V	-47.67	8.45	7.04	-46.26	-13	33.26	

Remark:

1 emission behaviors belong to narrowband spurious emission.

2 The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: PCS 1900 mode

Operation mode: TX CH Low mode Fundamental Frequency: 1850.2MHz

rundamental Frequency. 1650.2Mm2							
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-58.39	2.6	1	-56.79	-13	43.79
200.00	Н	-64.84	9.1	1.42	-57.16	-13	44.16
800.00	Н	-63.45	8.7	2.86	-57.61	-13	44.61
1800.00	Н	-47.63	7	4.38	-45.01	-13	32.01
3700.40	Н	-48.57	8.35	6.77	-46.99	-13	33.99
5550.60	Н	-44.16	9.55	8.1	-42.71	-13	29.71
7400.80	Н	-49.88	9.75	9.51	-49.64	-13	36.64
9251.00	Н	-49.66	10.55	11.08	-50.19	-13	37.19
100.00	V	-56.74	2.6	1	-55.14	-13	42.14
200.00	V	-64.09	9.1	1.42	-56.41	-13	43.41
800.00	V	-62.13	8.7	2.86	-56.29	-13	43.29
1800.00	V	-48.81	7	4.38	-46.19	-13	33.19
3700.40	V	-47.69	8.35	6.77	-46.11	-13	33.11
5550.60	V	-44.61	9.55	8.1	-43.16	-13	30.16
7400.80	V	-49.35	9.75	9.51	-49.11	-13	36.11
9251.00	V	-49.08	10.55	11.08	-49.61	-13	36.61

Remark:

1 emission behaviors belong to narrowband spurious emission.

2 The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: PCS 1900 mode

Operation mode: TX CH mid mode Fundamental Frequency: 1880.0MHz

rundamental Frequency. 1000.0MFIZ							
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-57.91	2.6	1	-56.31	-13	43.31
200.00	Н	-64.9	9.1	1.42	-57.22	-13	44.22
800.00	Н	-63	8.7	2.86	-57.16	-13	44.16
1800.00	Н	-48.73	7	4.38	-46.11	-13	33.11
3760.00	Н	-45.7	8.42	6.84	-44.12	-13	31.12
5640.00	Н	-43.46	9.5	8.31	-42.27	-13	29.27
7520.00	Н	-49.52	9.78	9.6	-49.34	-13	36.34
9400.00	Н	-49.4	10.61	11.32	-50.11	-13	37.11
100.00	V	-56.73	2.6	1	-55.13	-13	42.13
200.00	V	-63.94	9.1	1.42	-56.26	-13	43.26
800.00	V	-62.18	8.7	2.86	-56.34	-13	43.34
1800.00	V	-48.63	7	4.38	-46.01	-13	33.01
3760.00	V	-48.89	8.42	6.84	-47.31	-13	34.31
5640.00	V	-42.55	9.5	8.31	-41.36	-13	28.36
7520.00	V	-49.85	9.78	9.6	-49.67	-13	36.67
9400.00	V	-49.52	10.61	11.32	-50.23	-13	37.23

Remark:

1 emission behaviors belong to narrowband spurious emission.

2 The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: PCS 1900 mode

Operation mode: TX CH High mode Fundamental Frequency: 1909.8MHz

i undamental i requency. 1909.0Miliz							
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-58.94	2.6	1	-57.34	-13	44.34
200.00	Н	-64.11	9.1	1.42	-56.43	-13	43.43
800.00	Н	-62.87	8.7	2.86	-57.03	-13	44.03
1800.00	Н	-49.31	7	4.38	-46.69	-13	33.69
3819.60	Н	-46.49	8.42	6.88	-44.95	-13	31.95
5729.80	Н	-42.58	9.5	8.48	-41.56	-13	28.56
7639.20	Н	-49.02	9.78	9.7	-48.94	-13	35.94
9549.00	Н	-48.33	10.61	11.64	-49.36	-13	36.36
100.00	V	-57.72	2.6	1	-56.12	-13	43.12
200.00	V	-64.15	9.1	1.42	-56.47	-13	43.47
800.00	V	-61.97	8.7	2.86	-56.13	-13	43.13
1800.00	V	-48.25	7	4.38	-45.63	-13	32.63
3819.60	V	-49.05	8.42	6.88	-47.51	-13	34.51
5729.80	V	-44.39	9.5	8.48	-43.37	-13	30.37
7639.20	V	-50.39	9.78	9.7	-50.31	-13	37.31
9549.00	V	-48.75	10.61	11.64	-49.78	-13	36.78

Remark:

1 emission behaviors belong to narrowband spurious emission.

2 The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: WCDMA IV mode

Operation mode: TX CH Low mode Fundamental Frequency: 1712.4MHz

Frequen cy (MHz)	Ant.Pol.	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-59.77	2.6	1	-58.17	-13	45.17
200.00	H	-65.13	9.1	1.42	-57.45	-13	44.45
800.00	Н	-62.29	8.7	2.86	-56.45	-13	43.45
1800.00	Н	-53.73	7	4.38	-51.11	-13	38.11
3424.8	Н	-54.23	8.25	6.52	-52.5	-13	39.5
5137.2	Н	-54.61	9.26	8.01	-53.36	-13	40.36
6849.6	Н	-51.39	9.95	9.25	-50.69	-13	37.69
8562.00	Н	-51.97	10.35	10.51	-52.13	-13	39.13
100.00	V	-58.92	2.6	1	-57.32	-13	44.32
200.00	V	-65.12	9.1	1.42	-57.44	-13	44.44
800.00	V	-61.51	8.7	2.86	-55.67	-13	42.67
1800.00	V	-53.25	7	4.38	-50.63	-13	37.63
3424.8	V	-50.48	8.25	6.52	-48.75	-13	35.75
5137.2	V	-55.48	9.26	8.01	-54.23	-13	41.23
6849.6	V	-51.06	9.95	9.25	-50.36	-13	37.36
8562.00	V	-53.25	10.35	10.51	-53.41	-13	40.41

Remark:

¹ emission behaviors belong to narrowband spurious emission.

² The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: WCDMA IV mode

Operation mode: TX CH Mid mode Fundamental Frequency: 1732.6MHz

Fundamental Frequency. 1752.0MHz							
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-59.29	2.6	1	-57.69	-13	44.69
200.00	Н	-64.71	9.1	1.42	-57.03	-13	44.03
800.00	Н	-61.98	8.7	2.86	-56.14	-13	43.14
1800.00	Н	-52.85	7	4.38	-50.23	-13	37.23
3465.2	Н	-56.2	8.25	6.36	-54.31	-13	41.31
5197.8	Н	-54.09	9.25	7.8	-52.64	-13	39.64
6930.4	Н	-51.76	9.75	9.38	-51.39	-13	38.39
8663	Н	-52.43	10.41	10.75	-52.77	-13	39.77
100.00	Н	-58.09	2.6	1	-56.49	-13	43.49
200.00	V	-64.16	9.1	1.42	-56.48	-13	43.48
800.00	V	-61.33	8.7	2.86	-55.49	-13	42.49
1800.00	V	-53.68	7	4.38	-51.06	-13	38.06
3465.2	V	-54.38	8.25	6.36	-52.49	-13	39.49
5197.8	V	-52.83	9.25	7.8	-51.38	-13	38.38
6930.4	V	-51.31	9.75	9.38	-50.94	-13	37.94
8663	V	-51.15	10.41	10.75	-51.49	-13	38.49

Remark:

- 1 emission behaviors belong to narrowband spurious emission.
- 2 The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: WCDMA IV mode

Operation mode: TX CH High mode Fundamental Frequency: 1752.6MHz

Tundamental Frequency. 1752.0WHZ							
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-59.66	2.6	1	-58.06	-13	45.06
200.00	Н	-65.84	9.1	1.42	-58.16	-13	45.16
800.00	Н	-61.95	8.7	2.86	-56.11	-13	43.11
1800.00	Н	-53.8	7	4.38	-51.18	-13	38.18
3505.2	Н	-55.26	8.25	6.32	-53.33	-13	40.33
5257.8	Н	-54.95	9.35	7.81	-53.41	-13	40.41
7010.4	Н	-52.85	9.75	9.06	-52.16	-13	39.16
8763	Н	-49.93	10.45	10.41	-49.89	-13	36.89
100.00	Н	-58.84	2.6	1	-57.24	-13	44.24
200.00	V	-65.12	9.1	1.42	-57.44	-13	44.44
800.00	V	-61.86	8.7	2.86	-56.02	-13	43.02
1800.00	V	-53.98	7	4.38	-51.36	-13	38.36
3505.2	V	-46.94	8.25	6.32	-45.01	-13	32.01
5257.8	V	-54.99	9.35	7.81	-53.45	-13	40.45
7010.4	V	-51.35	9.75	9.06	-50.66	-13	37.66
8763	V	-51.46	10.45	10.41	-51.42	-13	38.42

Remark:

¹ emission behaviors belong to narrowband spurious emission.

² The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: WCDMA V mode

Operation mode: TX CH Low mode Fundamental Frequency: 826.4MHz

	Tundamentar requestey. 020.4WHz						
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-59.21	2.6	1	-57.61	-13	44.61
200.00	Н	-64.07	9.1	1.42	-56.39	-13	43.39
800.00	Н	-53.23	8.7	2.86	-47.39	-13	34.39
1652.80	Н	-51.03	6.95	4.19	-48.27	-13	35.27
2479.20	Н	-43.84	8.35	5.26	-40.75	-13	27.75
3305.60	Н	-43.6	8.15	6.11	-41.56	-13	28.56
4132.00	Н	-54.71	8.45	6.9	-53.16	-13	40.16
100.00	V	-57.99	2.6	1	-56.39	-13	43.39
200.00	V	-63.67	9.1	1.42	-55.99	-13	42.99
800.00	V	-53.75	8.7	2.86	-47.91	-13	34.91
1652.80	V	-49.38	6.95	4.19	-46.62	-13	33.62
2479.20	V	-48.81	8.35	5.26	-45.72	-13	32.72
3305.60	V	-43.37	8.15	6.11	-41.33	-13	28.33
4132.00	V	-53.74	8.45	6.9	-52.19	-13	39.19

Remark:

¹ emission behaviors belong to narrowband spurious emission.

² The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: WCDMA V mode

Operation mode: TX CH Mid mode Fundamental Frequency: 836.0MHz

Fundamental Frequency: 836.0MHz							
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-59.04	2.6	1	-57.44	-13	44.44
200.00	Н	-64.06	9.1	1.42	-56.38	-13	43.38
800.00	Н	-52.55	8.7	2.86	-46.71	-13	33.71
1672.00	Н	-48.89	6.95	4.19	-46.13	-13	33.13
2508.00	Н	-48.43	8.35	5.26	-45.34	-13	32.34
3344.00	Н	-53.38	8.15	6.11	-51.34	-13	38.34
4180.00	Н	-55.76	8.45	6.9	-54.21	-13	41.21
100.00	V	-57.75	2.6	1	-56.15	-13	43.15
200.00	V	-63.16	9.1	1.42	-55.48	-13	42.48
800.00	V	-53.2	8.7	2.86	-47.36	-13	34.36
1672.00	V	-42.66	6.95	4.19	-48.22	-13	35.22
2508.00	V	-50.98	8.35	5.26	-45.66	-13	32.66
3344.00	V	-52.76	8.15	6.11	-50.72	-13	37.72
4180.00	V	-54.71	8.45	6.9	-53.16	-13	40.16

Remark:

1 emission behaviors belong to narrowband spurious emission.

2 The result basic equation calculation is as follow:

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Radiated spurious Emission Measurement Result: WCDMA V mode

Operation mode: TX CH High mode Fundamental Frequency: 846.6MHz

i unuame	Fundamental Frequency: 846.6MHZ						
Frequen cy (MHz)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dBm)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dB)
100.00	Н	-59.87	2.6	1	-58.27	-13	45.27
200.00	Н	-65.07	9.1	1.42	-57.39	-13	44.39
800.00	Н	-54.08	8.7	2.86	-48.24	-13	35.24
1693.20	Н	-48.61	6.99	4.2	-45.82	-13	32.82
2539.80	Н	-48.27	8.41	5.35	-45.21	-13	32.21
3386.40	Н	-54.23	8.22	6.21	-52.22	-13	39.22
4233.00	Н	-55.03	8.48	6.91	-53.46	-13	40.46
100.00	V	-59.14	2.6	1	-57.54	-13	44.54
200.00	V	-63.35	9.1	1.42	-55.67	-13	42.67
800.00	V	-53.2	8.7	2.86	-47.36	-13	34.36
1693.20	V	-42.67	6.99	4.22	-39.9	-13	26.9
2539.80	V	-45.36	8.41	5.39	-42.34	-13	29.34
3386.40	V	-53.03	8.22	6.35	-51.16	-13	38.16
4233.00	V	-54.92	8.48	7.04	-53.48	-13	40.48

Remark:

 $\label{eq:energy} \mbox{ERP/EIRP(dBm)=S.G. Output(dBm) + Antenna \ Gain(dBd/dBi)-Cable \ Loss}$

¹ emission behaviors belong to narrowband spurious emission.

² The result basic equation calculation is as follow:

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6.7 Receiver Spurious Emissions

Test Requirement: RSS-GEN section 6;

RSS-GEN section 7.2.3.2

Limit: Table 1 - Spurious Emission Limits for Receivers

Spurious Frequency (MHz)	Field Strength (microvolt/m at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

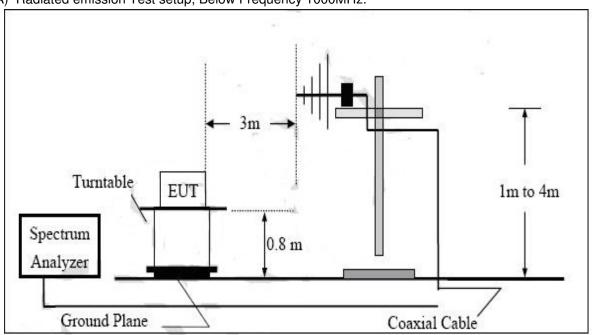
 $40.0~dB\mu V/m$ between 30MHz to 88MHz $43.5~dB\mu V/m$ between 88MHz to 216MHz $46.0~dB\mu V/m$ between 216MHz to 960MHz

 $54.0 \text{ dB}\mu\text{V/m}$ above 960MHz

Test Date: Mar 23,2010

Test Setup:

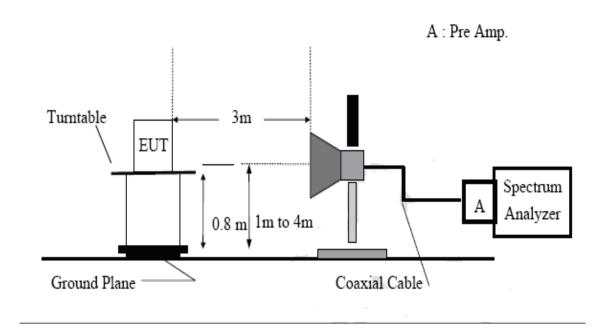
(A) Radiated emission Test setup, Below Frequency 1000MHz:



(B) Radiated emission Test setup frequency over 1GHz:

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Test Procedure:

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and lowering of the test antenna from 4m to 1m. For emissions below 1 GHz, measurements shall be performed using QP detector. Above 1 GHz, measurements shall be performed using an average detector.

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Measurement Result:

Operation mode: GSM 850 Receiver mode

Operation mode: GSM 850 Receiver mode							
Frequen cy (MHz)	Ant.Pol. H/V	Level (dBuV/m)	Limit (dBuV/m)	Safe Margin (dB)			
30.00	Н	14.8	40.0	25.2			
100.00	Н	15.0	43.5	28.5			
200.00	Н	13.8	43.5	29.7			
300.00	Н	20.0	46.0	26.0			
500.00	Н	22.5	46.0	23.5			
1000.00	Н	28.0	54.0	26.0			
35.00	V	23.0	40.0	17.0			
40.00	V	25.0	40.0	15.0			
100.00	V	14.2	43.5	29.3			
300.00	V	18.5	46.0	27.5			
500.00	V	25.0	46.0	21.0			
1000.00	V	30.0	54.0	24.0			

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Measurement Result:

Operation mode: GSM 1900 Receiver mode

Operation mode: GSM 1900 Receiver mode						
Frequen cy (MHz)	Ant.Pol. H/V	Level (dBuV/m)	Limit (dBuV/m)	Safe Margin (dB)		
30.00	Н	14.9	40.0	25.1		
100.00	Н	13.2	43.5	30.3		
200.00	Н	14.6	43.5	28.9		
300.00	Н	19.9	46.0	26.1		
500.00	Н	22.4	46.0	23.6		
1000.00	Н	29.7	54.0	24.3		
30.00	V	15.1	40.0	24.9		
100.00	V	12.6	43.5	30.9		
200.00	V	15.1	43.5	28.4		
300.00	V	18.7	46.0	27.3		
500.00	V	22.1	46.0	23.9		
1000.00	V	30.5	54.0	23.5		

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Measurement Result:

Operation mode: WCDMA Band IV Receiver mode

Operation	Operation mode: WCDMA Band IV Receiver mode							
Frequen cy (MHz)	Ant.Pol. H/V	Level (dBuV/m)	Limit (dBuV/m)	Safe Margin (dB)				
30.00	Н	16.1	40.0	23.9				
150.00	Н	16.2	43.5	27.3				
200.00	Н	15.6	43.5	27.9				
300.00	Н	20.0	46.0	26.0				
600.00	Н	26.4	46.0	19.6				
1000.00	Н	30.7	54.0	23.3				
35.00	V	25.1	40.0	14.9				
40.00	V	23.0	43.5	20.5				
100.00	V	14.6	43.5	28.9				
300.00	V	20.0	46.0	26.0				
500.00	V	24.1	46.0	21.9				
1000.00	V	30.0	54.0	24.0				

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Measurement Result:

Operation mode: WCDMA Band V Receiver mode

Operation mode: WCDMA Band V Receiver mode							
Frequen cy (MHz)	Ant.Pol. H/V	Level (dBuV/m)	Limit (dBuV/m)	Safe Margin (dB)			
30.00	Н	15.0	40.0	25.0			
60.00	Н	17.1	43.5	26.4			
200.00	Н	15.0	43.5	28.5			
300.00	Н	20.0	46.0	26.0			
600.00	Н	26.6	46.0	19.4			
1000.00	Н	30.6	54.0	23.4			
30.00	V	15.2	40.0	24.8			
100.00	V	14.5	43.5	29.0			
200.00	V	14.2	43.5	29.3			
300.00	V	20.1	46.0	25.9			
500.00	V	24.7	46.0	21.3			
1000.00	V	31.0	54.0	23.0			

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6.8 Frequency Stability V.S. TEMPERATURE MEASUREMENT

Test Requirement: Part 2.1055(a)(1),

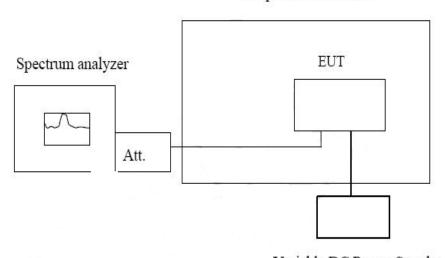
RSS-132,4.3; RSS-133,6.3;RSS-139 6.3

Test Date: Mar 23, 2010

Test Status: Test mode

Test Setup:

Temperature Chamber



Variable DC Power Supply

Note: Measurement setup for testing On antenna connector.

Test procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. Reference power supply voltage for these tests is DC 3.8 V.RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the Spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25 degree operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 degree. After the temperature stabilized for approximately 30 minutes record the frequency. Repeat step measure with 10 degree per stage until the highest temperature of 50 degree reached.

Frequency Tolerance: +/-2.5ppm

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Reference Frequency: GSM 850 Mid channel 836.4 MHz@ 25 degree				
	Limit: +/- 2.5ppm = 2091Hz			
Environment	Environment Frequency Delta			
Temperature(degree)	(MHz)	(Hz)	(Hz)	
-30	836.399911	89	2091	
-20	836.399946	54	2091	
-10	836.399967	33	2091	
10	836.399984	16	2091	
20	836.400004	4	2091	
30	836.399983	17	2091	
40	836.399978	22	2091	
50	836.399937	63	2091	

Reference Frequency: PCS 1900 Mid channel 1880MHz@ 25 degree					
Limit: +/- 2.5ppm = 4700Hz					
Environment Frequency Delta Limit					
Temperature(degree)	(MHz)	(Hz)	(Hz)		
-30	1879.999901	99	4700		
-20	1879.999925	75	4700		
-10	1879.999974	26	4700		
10	1879.999990	10	4700		
20	1879.999985	15	4700		
30	1879.999974	26	4700		
40	1879.999947	53	4700		
50	1879.999933	67	4700		

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Reference Frequency: WCDMA IV Mid channel 1732.6MHz@ 25 degree				
	Limit: +/- 2.5ppm = 4331.5Hz			
Environment	Limit			
Temperature(degree)	(MHz)	(Hz)	(Hz)	
-30	1732.599921	79	4331.5	
-20	1732.599933	67	4331.5	
-10	1732.599944	56	4331.5	
10	1732.599991	9	4331.5	
20	1732.599993	7	4331.5	
30	1732.599981	19	4331.5	
40	1732.599975	25	4331.5	
50	1732.599915	85	4331.5	

Reference Frequency: WCDMA V Mid channel 836.0MHz@ 25 degree				
	Limit: +/- 2.5ppm = 2090Hz			
Environment Frequency Delta Limit				
Temperature(degree)	(MHz)	(Hz)	(Hz)	
-30	835.999914	86	2090	
-20	835.999929	71	2090	
-10	835.999949	51	2090	
10	835.999984	16	2090	
20	835.999995	5	2090	
30	835.999943	57	2090	
40	835.999934	66	2090	
50	835.999949	51	2090	

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6.9 Frequency Stability V.S. VOLTAGE MEASUREMENT

Test Requirement: Part 2.1055(d)(1)

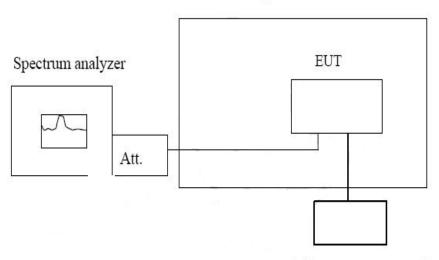
RSS-132,4.3; RSS-133,6.3 ;RSS-139,6.3

Test Date: Mar 23, 2010

Test Status: Test mode

Test Setup:

Temperature Chamber



Variable DC Power Supply

Note: Measurement setup for testing On antenna connector.

Test procedure:

Set chamber temperature to 25 degree. Use a variable AC power/ DC power supply to power the EUT and set the Voltage to rated voltage. Reference power supply voltage for these tests is DC 3.8 V. Set the spectrum analyzer RBW enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation(+/-15%) and endpoint, record the maximum frequency change.

Frequency Tolerance: +/-2.5ppm

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Reference Frequency: GSM 850 Mid channel 836.4 MHz@ 25 degree				
	Limit: +/- 2.5ppm = 2091Hz			
Power Supply Frequency Delta Limit				
Vdc	(MHz)	(Hz)	(Hz)	
4.2	836.400032	32	2091	
3.8	836.400000	0	2091	
3.3	836.399982	18	2091	

Reference Frequency: PCS 1900 Mid channel 1880MHz@ 25 degree				
	Limit: +/- 2.5ppm = 4700Hz			
Power Supply Frequency Delta Limit				
Vdc	(MHz)	(Hz)	(Hz)	
4.2	1879.999974	26	4700	
3.8	1880.000000	0	4700	
3.3	1879.999965	35	4700	

Reference Frequency: WCDMA IV Mid channel 1732.6MHz@ 25 degree				
	Limit: +/- 2.5ppm = 4331.5Hz			
Power Supply Frequency Delta Limit				
Vdc	(MHz)	(Hz)	(Hz)	
4.2	1732.600031	31	4331.5	
3.8	1732.600000	0	4331.5	
3.3	1732.600019	19	4331.5	

Reference Frequency: WCDMA V Mid channel 836.0MHz@ 25 degree			
Limit: +/- 2.5ppm = 2090Hz			
Power Supply Frequency Delta Limit			
Vdc	(MHz)	(Hz)	(Hz)
4.2	835.999973	27	2090
3.8	836.000000	0	2090
3.3	835.999965	35	2090

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6.10 Conducted Emissions Mains Terminals, 150 kHz to 30MHz

Test Requirement:

RSS Gen 7.2.2;

Part 15.207

Test Method:

ANSI C63.4.

Test Date:

Mar 15,2010

Frequency Range:

150KHz to 30MHz

Detector:

Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

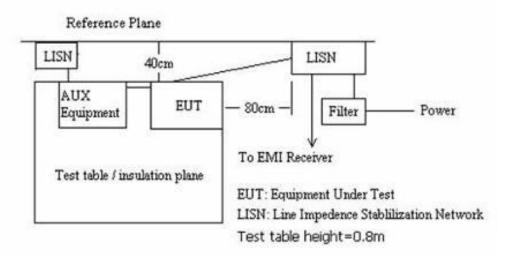
EUT Operation:

GSM 850/1900, WCDMA IV/V link mode

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Plan View of Test Setup



Limit:

Frequency range	Lin dB(t	
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

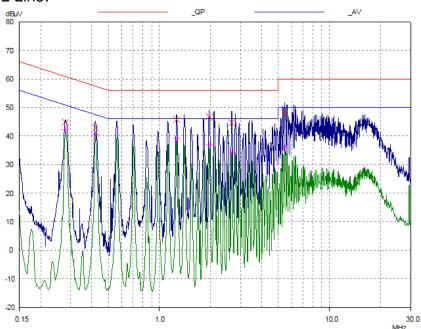
- 1. The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

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Operating mode: GSM 850 Link

L Line:



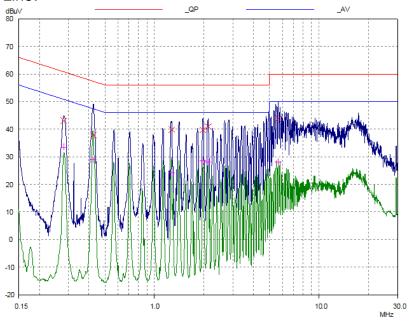
Frequency	QP Level	QP Limit	QP Delta
MHz	dΒμV	dΒμV	dB
0.2796	44.90	60.83	15.93
0.42013	42.87	57.45	14.58
1.25938	45.80	56.00	10.20
1.95374	46.66	56.00	9.34
2.65683	44.57	56.00	11.43
5.45045	48.06	60.00	11.94
Frequency	AV Level	AV Limit	AV Delta
MHz	dΒμV	dΒμV	dB
0.2796	42.16	50.83	8.67
0.42013	40.41	47.45	7.04
1.25938	39.06	46.00	6.94
1.95374	36.96	46.00	9.04
2.65683	34.34	46.00	11.66
5.45045	35.90	50.00	14.10

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Operating mode: GSM 850 Link

N Line:



Frequency MHz	QP Level dΒμV	QP Limit dΒμV	QP Delta dB
0.28072	43.08	60.79	17.71
0.42519	37.97	57.35	19.38
1.27456	39.77	56.00	16.23
1.9694	39.66	56.00	16.34
2.11613	40.92	56.00	15.08
5.64984	43.76	60.00	16.24

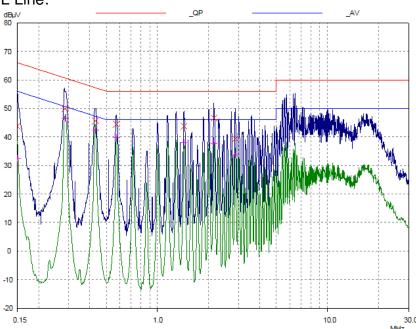
Frequency	AV Level	AV Limit	AV Delta
MHz	dΒμV	dΒμV	dB
0.28072	33.49	50.79	17.30
0.42519	28.88	47.35	18.47
1.27456	24.17	46.00	21.83
1.9694 2.11613	28.58 28.09	46.00 46.00 46.00	21.63 17.42 17.91
5.64984	28.00	50.00	22.00

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Operating mode: PCS 1900 Link

L Line:



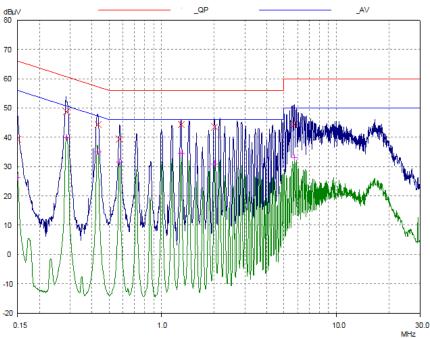
Frequency	QP Level	QP Limit	QP Delta
MHz	dΒμV	dΒμV	dB
0.15	43.77	66.00	22.23
0.28524	49.93	60.66	10.73
0.43204	45.63	57.21	11.58
0.57132	44.41	56.00	11.59
1.43099	43.76	56.00	12.24
2.14162	46.68	56.00	9.32
2.86619	39.37	56.00	16.63
Frequency	AV Level	AV Limit	AV Delta
MHz	dΒμV	dΒμV	dB
0.15	32.51	56.00	23.49
0.28524	46.47	50.66	4.19
0.43204	42.25	47.21	4.96
0.57132	39.92	46.00	6.08
1.43099	38.08	46.00	7.92
2.14162	37.82	46.00	8.18
2.86619	33.57	46.00	12.43

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Operating mode: PCS 1900 Link

N Line:



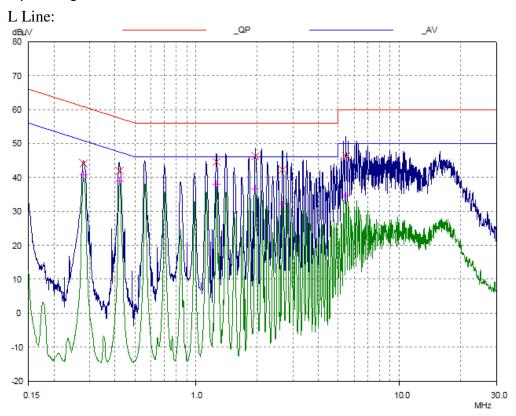
Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dΒμV	dB
0.15	39.32	66.00	26.68
0.28524	48.71	60.66	11.95
0.43204	44.30	57.21	12.91
0.57361	39.32	56.00	16.68
1.28991	44.33	56.00	11.67
2.00911	43.53	56.00	12.47
5.71791	44.34	60.00	15.66

Frequency MHz	AV Level dΒμV	AV Limit dΒμV	AV Delta dB
0.15	26.23	56.00	29.77
0.28524	39.86	50.66	10.80
0.43204	34.97	47.21	12.24
0.57361	31.51	46.00	14.49
1.28991	34.42	46.00	11.58
2.00911	30.90	46.00	15.10
5.71791	33.03	50.00	16.97

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Operating mode: WCDMA BAND IV Link Mode



Final Measurement Results

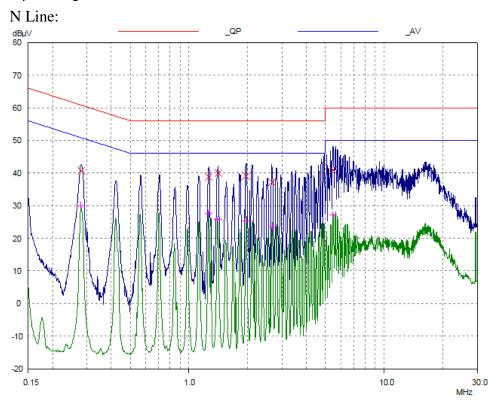
Frequency	QP Level	QP Limit	QP Delta
MHz	dΒμV	dΒμV	dB
0.2796	44.18	60.83	16.65
0.42013	42.00	57.45	15.45
1.25938	44.53	56.00	11.47
1.95374	46.30	56.00	9.70
2.65683	42.32	56.00	13.68
5.45045	46.21	60.00	13.79
Frequency	AV Level	AV Limit	AV Delta
MHz	dΒμV	dΒμV	dB
0.2796	40.90	50.83	9.93
0.42013	39.02	47.45	8.43
1.25938	37.88	46.00	8.12
1.95374	36.69	46.00	9.31
2.65683	32.27	46.00	13.73
5.45045	34.43	50.00	15.57

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Operating mode: WCDMA BAND IV Link Mode



Final Measurement Results

Frequency	QP Level	QP Limit	QP Delta
MHz	dΒμV	dΒμV	dB
0.2796	40.69	60.83	20.14
0.2790	40.09	00.03	20.14
1.25938	38.82	56.00	17.18
1.40832	39.92	56.00	16.08
1.95374	39.08	56.00	16.92
2.65683	37.17	56.00	18.83
5.45045	40.93	60.00	19.07

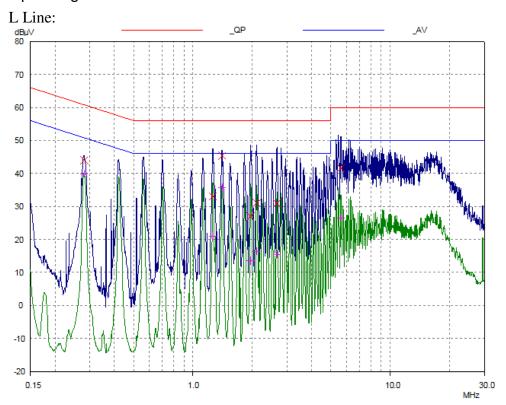
Frequency MHz	AV Level dΒμV	AV Limit dΒμV	AV Delta dB
0.2796	29.95	50.83	20.88
1.25938	27.48	46.00	18.52
1.40832	25.72	46.00	20.28
1.95374	25.25	46.00	20.75
2.65683	23.41	46.00	22.59
5.45045	27.03	50.00	22.97
1.95374 2.65683	25.25 23.41	46.00 46.00	20.75 22.59

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Operating mode: WCDMA BAND V Link Mode



Final Measurement Results

5.62733

26.46

Frequency MHz	QP Level dBµV	QP Limit dΒμV	QP Delta dB
0.28072 1.25938 1.40832 1.95374 2.0993 2.65683	44.10 33.06 45.39 26.87 31.00 31.03	60.79 56.00 56.00 56.00 56.00 56.00	16.69 22.94 10.61 29.13 25.00 24.97
5.62733	41.52	60.00	18.48
Frequency MHz	AV Level dΒμV	AV Limit dΒμV	AV Delta dB
0.28072	39.81	50.79	10.98
1.25938	21.05	46.00	24.95
1.40832	35.68	46.00	10.32
1.95374	13.49	46.00	32.51
2.0993	16.39	46.00	29.61
2 65683	15 49	46 00	30.51

50.00

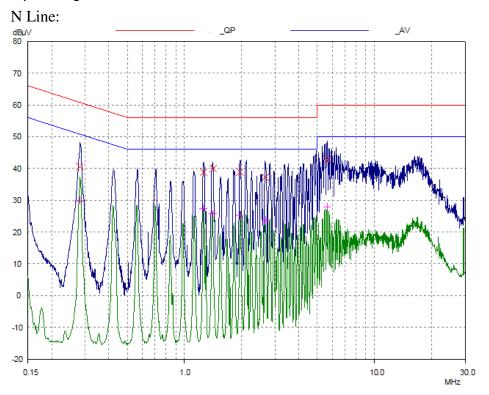
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23.54

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Operating mode: WCDMA BAND V Link Mode



Final Measurement Results

QP Level	QP Limit	QP Delta
dΒμV	dΒμV	dB
40.59	60.79	20.20
38.82	56.00	17.18
39.96	56.00	16.04
39.00	56.00	17.00
37.23	56.00	18.77
42.77	60.00	17.23
AV Level	AV Limit	AV Delta
dΒμV	dΒμV	dB
29.80	50.79	20.99
27.43	46.00	18.57
25.72	46.00	20.28
25.31	46.00	20.69
23.57	46.00	22.43
27.94	50.00	22.06
	dBμV 40.59 38.82 39.96 39.00 37.23 42.77 AV Level dBμV 29.80 27.43 25.72 25.31 23.57	dBμV dBμV 40.59 60.79 38.82 56.00 39.96 56.00 37.23 56.00 42.77 60.00 AV Level AV Limit dBμV 29.80 50.79 27.43 46.00 25.72 46.00 25.31 46.00 23.57 46.00

~End of Report~

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