

FCC ID: E2KM02M001

Report No.: EH/2010/A0031 Issue Date: Nov. 16, 2010 Page: 1 of 64

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27

	OF
Product Name:	Mobile Internet Device
Brand Name:	DELL
Model Name:	M02M
Model Difference:	N/A
FCC ID:	E2KM02M001
Report No.:	EH/2010/A0031
Issue Date:	Nov. 16, 2010
FCC Rule Part:	2,22H & 24E & 27
Prepared for:	DELL Inc.
	One Dell Way, Round Rock, Tx 78682Austin, Tx 78753
Prepared by:	SGS Taiwan Ltd.
	Electronics & Communication Laboratory
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FCC ID: E2KM02M001

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VERIFICATION OF COMPLIANCE

Applicant:	DELL Inc. One Dell Way, Round Rock, Tx 78682Austin, Tx 78753
Product Name:	Mobile Internet Device
Brand Name:	DELL
Model No.:	M02M
Model Difference:	N/A
FCC ID:	E2KM02M001
File Number:	EH/2010/A0031
Date of test:	Oct. 26, 2010 ~ Nov. 16, 2010
Date of EUT Received:	Oct. 26, 2010

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H, PART 24 subpart E and PART 27.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Sky	Wang	Date:	Nov. 16, 2010
_	Sky Wang / A	Asst. Supervisor		
Prepared By:	Alex	Hsieh	Date:	Nov. 16, 2010
-	Alex Hsieh	/ Sr. Engineer		
Approved By:	ALNO	Hsieh	Date:	Nov. 16, 2010

Arno Hsieh /Asst. Supervisor



Version

Version No.	Date	Description
00	Nov. 16, 2010	Initial creation of document



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1. GENERAL PRODUCT INFORMATION

General:

Product Name	Mobile Internet Device				
Brand Name	DELL				
Model Name	M02M				
Model Difference	N/A				
Simple Hands-Free	Model No.: 7	ГҮ.2C190.001, Supplier: PCH			
30pin-USB data cable	Model No.: 7	ГҮ.5К190.001, Supplier: PCH			
Dock	Model No.: I	Model No.: K02M001, Supplier: DELL			
Dock power cable	Model No.: 7	Model No.: TY.5K190.002, Supplier: PCH			
Dock mini USB Cable	Model No.: 7	ГҮ.5К190.003, Supplier: PCH			
	3.8 Vdc re-chargeable battery or 5.35Vdc by AC/DC power adapter				
Power Supply	Battery:	Model: 506971, Supplier: Amperex Technology Limited			
	Adapter:	Model No.:PSAI10R-050Q, Supplier: Phihong			

GSM and WCDMA:

	Operating Frequency	Rated Power		
	GSM/GPRS 850 Class 12 824 MHz– 849MHz		33 dBm	
	GSM/GPRS 1900 Class 12 1850MHz – 1910MHz		30 dBm	
Calleday Dhana Standarda	EDGE 850, Class 12	824 MHz- 849MHz	33 dBm	
Cellular Phone Standards	EDGE 1900, Class 12	1850MHz – 1910MHz	30 dBm	
Frequency Range and Power:	WCDMA/HSUPA/HSDPA Band II	1852.4MHz - 1907.6MHz	24 dBm	
	WCDMA/HSUPA/HSDPA Band IV	1712.4MHz –1752.6MHz	24 dBm	
	WCDMA/HSUPA/HSDPA Band V	826.4MHz -846.6MHz	24 dBm	
Hardware Version:	N/A			
Software Version:	N/A			
Type of Emission	GSM 850: 300KGXW, GSM 1900 :300KGXW EDGE 850: 300KG7W, EDGE 1900:300KG7W WCDMA Band II: 4M20F9W,WCDMA Band IV: 4M20F9W WCDMA Band V: 4M20F9W			
IMEI:	354282040002822			



WLAN:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b : 17.18dBm g : 18.42dBm	DSSS, OFDM	b : 8M15G1D g : 15M23G1D
11n	HT20 2412-2462	11	n : 18.77Bm	OFDM	15M23G1D
Antenna	Antenna Designation:		Inverted-F Antenna with 1.54 dBi peak gain		
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM. 16QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65Mbps			

The EUT is compliance with IEEE 802.11 b/g/n Standard.

Bluetooth:

Bluetooth Version:	□ V1.1 (GFSK) □ V1.2 (GFSK) □ V2.0 (GFSK) □ V2.0 + EDR (GFSK + π /4DQPSK + 8DPSK) ∨ 2.1 + EDR (GFSK + π /4DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	$GFSK + \pi/4DQPSK + 8DPSK$
Output Power:	3.94 dBm (Max. EDR mode)
Frequency Range:	2.402GHz - 2.480GHz
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	Inverted-F Antenna with 1.54 dBi peak gain

The EUT is compliance with Bluetooth 2.1 + EDR Standard.

This test report applies for GSM/EDGE 850/1900, WCDMA/HSDPA/HSUPA band II/IV/V.



1.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: <u>**E2KM02M001**</u> filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

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

1.3. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

All equipment is calibrated externally and traceable to SI (International System of Unit).

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.



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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.3 Radiated Emissions (ERP/EIRP):

The EUT is a placed on as turn table which is 80 cm above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 2 of TIA/EIA 603C.



2.4. Measurement Equipment Used:

Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012	
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2010	01/22/2012	
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/13/2012	
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2010	01/04/2011	
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2010	01/04/2011	
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2010	04/13/2012	
Temperature Chamber	GIANT FORCE	GTH-150-40- CP-AR	MAA0512-018	02/05/2010	02/04/2012	
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011	
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2010	07/04/2011	
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2010	07/04/2011	
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2010	07/04/2011	
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011	
DC Power Supply	HP	6038A	2929A-07548	06/27/2010	06/26/2011	
DC Power Supply	Topward	3303D	981327	10/26/2009	10/25/2010	



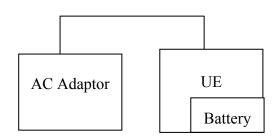
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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
ТҮРЕ		NUMBER	NUMBER	CAL.		
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2012	
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2010	11/14/2011	
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2010	07/09/2012	
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2010	07/09/2012	
Horn antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2010	01/21/2012	
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2010	05/08/2012	
Signal Generator	R&S	SMR40	100210	01/22/2010	01/21/2012	
Signal Generator	Agilent	E4438C	MY45093613	06/11/2010	06/10/2011	
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2009	11/29/2010	
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011	
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011	
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011	
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011	
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/12/2012	
Turn Table	HD	DT420	N/A	N.C.R	N.C.R	
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R	
Controller	HD	HD100	N/A	N.C.R	N.C.R	
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011	
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011	
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011	

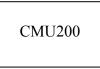


2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel)



Remote Side



Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Com- munication Tester	R&S	CMU200	102189	shielded	Un-shielded



3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a)		
§22.913(a)(2)	ERP/ EIRP measurement	Compliant
§24.232(c)	ERI7 EIRI measurement	Compliant
§27.50(d)(2)		
§2.1049(h)	99% Occupied Bandwidth	N/A
§2.1051	Out of Band Emissions at Antenna	
§22.917(a)	Terminals and	N/A
§24.238(a)	Band Edge	1 1/ 2 1
§27.53(g)	Dund Luge	
§2.1053		
§22.917(a)	Field Strength of Spurious Radiation	Compliant
§24.238(a)	r leid Strength of Spurious Radiation	Compliant
§27.53(g)		
§2.1055(a)(1)		
§22.355	Frequency Stability vs. Temperature	N/A
§24.235	riequency succinty vs. remperature	1 1/1 1
§27.54		
§2.1055(d)(2)		
§22.355	Frequency Stability vs. Voltage	N/A
§24.235	requency submity vs. voluge	1 1/ 2 1
§27.54		

Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	30.62	ERP	1.153
GPRS 1900 Band	26.50	EIRP	0.447
EDGE 850 Band	26.26	ERP	0.423
EDGE 1900 Band	24.14	EIRP	0.259
WCDMA Band II	22.78	EIRP	0.190
WCDMA Band IV	22.05	EIRP	0.160
WCDMA Band V	22.17	ERP	0.165



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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (E1 mode) and lie down position (E1, E2 mode) for GPRS 850/1900 and WCDMA Band II / IV / V with power adaptors. The worst-case of E2 position for GPRS 850 band, H position for GPRS 1900, E2 position for WCDMA Band II and E1 position for WCDMA Band IV, H position WCDMA Band V were reported.



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5. RF POWER OUTPUT MEASUREMENT

5.1 Standard Applicable:

According to FCC §2.1046.

FCC 22.913(a) Mobile station are limited to 7W.

FCC 24.232(c) Peak Power Measurement

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

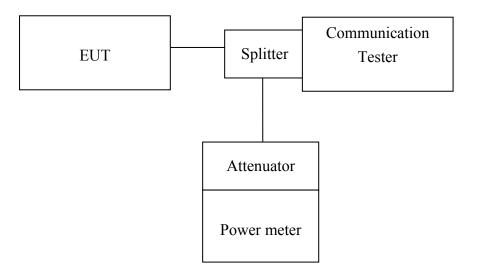
Sub-test in ta-	Power	Power Class 3		Class 4
ble C.10.1.4	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-3.7	+21	+2.7/-2.7
2	+24	+1.7/-3.7	+21	+2.7/-2.7
3	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7
4	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7

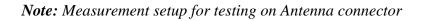
Maximum Output Powers for HSUPA

Sub-test in table	Power	Class 3	Power	Class 4
C.11.1.3	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-6.7	+21	+2.7/-5.7
2	+22	+3.7/-5.2	+19	+4.7/-4.2
3	+23	+2.7/-5.2	+20	+3.7/-4.2
4	+22	+3.7/-5.2	+19	+4.7/-4.2
5	+24	+1.7/-6.7	+21	+2.7/-5.7



5.2 Test Set-up:





5.3 Measurement Procedure:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. The Procedure of KDB941225(SAR Measurement Procedures for 3G devices, WCDMA/HSDPA) was used for EUT and Base station setting.RMC 12.2kps is used for this testing

5.4 Measurement Equipment Used:

Refer to section 2.4 in this report



5.5 Measurement Result:

5.1 **RF** Conducted Output Power

5.1.1.: GSM/GPRS/EDGE (GMSK; 8-PSK)

Result: (All burst-average)

EUT Mode	Frequency (MHz)	СН	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)	Peak Power (3TS) (dBm)	Peak Power (4TS) (dBm)
	824.2	128	31.40	29.40	28.80	26.40
GPRS 850 (Class 12)	836.6	190	31.40	29.50	28.80	26.40
()	848.8	251	31.50	29.50	28.80	26.40

EUT Mode	Frequency (MHz)	СН	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)	Average Power (3TS) (dBm)	Average Power (4TS) (dBm)
CDDC 050	824.2	128	31.30	29.30	28.70	26.30
GPRS 850 (Class 12)	836.6	190	31.30	29.40	28.70	26.30
	848.8	251	31.40	29.40	27.70	26.30

EUT Mode	Frequency (MHz)	СН	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)	Peak Power (3TS) (dBm)	Peak Power (4TS) (dBm)
	824.2	128	30.00	27.80	26.80	25.70
EDGE 850 (Class 12)	836.6	190	30.00	27.90	26.90	25.90
	848.8	251	30.00	27.90	26.90	25.90

EUT Mode	Frequency (MHz)	СН	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)	Average Power (3TS) (dBm)	Average Power (4TS) (dBm)
	824.2	128	26.00	24.00	23.50	21.70
EDGE 850 (Class 12)	836.6	190	26.10	24.00	25.50	22.00
	848.8	251	26.10	24.00	23.50	21.70

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EUT Mode	Frequency (MHz)	СН	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)	Peak Power (3TS) (dBm)	Peak Power (4TS) (dBm)
CDDG 1000	1850.2	512	28.70	27.20	26.40	25.10
GPRS 1900 (Class 12)	1880.0	661	28.70	27.10	26.40	25.10
	1909.8	810	28.40	28.80	26.20	24.90

EUT Mode	Frequency (MHz)	СН	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)	Average Power (3TS) (dBm)	Average Power (4TS) (dBm)
CDDC 1000	1850.2	512	28.60	27.10	26.30	25.00
GPRS 1900 (Class 12)	1880.0	661	28.60	27.00	26.30	25.00
	1909.8	810	28.30	28.70	26.10	24.70

EUT Mode	Frequency (MHz)	СН	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)	Peak Power (3TS) (dBm)	Peak Power (4TS) (dBm)
EDGE 1000	1850.2	512	28.80	26.90	25.90	24.70
EDGE 1900 (Class 12)	1880.0	661	28.70	26.70	25.60	24.60
	1909.8	810	28.30	26.30	25.30	24.20

EUT Mode	Frequency (MHz)	СН	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)	Average Power (3TS) (dBm)	Average Power (4TS) (dBm)
EDGE 1000	1850.2	512	25.20	23.20	22.50	21.10
EDGE 1900 (Class 12)	1880.0	661	25.20	23.20	22.50	21.10
	1909.8	810	24.80	22.70	22.20	20.60



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5.5.1.2: WCDMA mode

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

EUT Mode	Frequency (MHz)	СН	Peak Power (dBm)	Avg Power (dBm)
	1852.4	9262	25.93	22.81
WCDMA Band II	1880.0	9400	25.99	22.64
Dana II	1907.6	9538	26.03	22.61

EUT Mode	Frequency (MHz)	СН	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band V	826.4	4132	26.52	22.86
	836.6	4183	26.39	23.08
	846.6	4233	26.32	22.81

EUT Mode	Frequency (MHz)	СН	Peak Power (dBm)	AVG. Power (dBm)
WCDMA Band IV	1712.4	1312	25.50	22.85
	1732.6	1413	25.96	22.83
	1752.6	1513	25.51	22.79

Note: The results above reflect max power with all up bits.



5.5.13: HSDPA Release 6 mode

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	βc	βd	β _d (SF)	βc/βd	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita-	Comments
		Channel			tion (dBm)	
		9262	9400	9538		
HSDPA	1	22.98	22.53	22.47	20.3dBm - 25.7dBm	Pass
B2	2	22.69	22.50	22.46	20.3dBm - 25.7dBm	Pass
	3	22.50	22.08	21.94	19.8dBm – 25.7dBm	Pass
	4	22.57	22.09	22.06	19.8dBm – 25.7dBm	Pass



Mode	Sub-test	Transmi	tter Powe	r (dBm)	Power Class 3 Limita-	Comments
		Channel			tion (dBm)	
		1312	1413	1513		
HSDPA	1	22.56	22.93	22.63	20.3dBm - 25.7dBm	Pass
(B4)	2	22.73	22.69	22.64	20.3dBm - 25.7dBm	Pass
	3	22.08	22.48	22.10	19.8dBm – 25.7dBm	Pass
	4	22.15	22.49	22.22	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA	1	22.65	22.94	22.93	20.3dBm - 25.7dBm	Pass
B5	2	22.79	22.97	22.68	20.3dBm - 25.7dBm	Pass
	3	22.19	22.46	22.44	19.8dBm – 25.7dBm	Pass
	4	22.24	22.50	22.50	19.8dBm – 25.7dBm	Pass



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5.5.1.4: HSPA (HSDPA & HSUPA) Release 6 mode

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Results:

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub- test	β _c	βa	β _d (SF)	β_c/β_d	$\beta_{\rm HS}$	β _{ec}	β_{ed}	β _{ed} (SF)	β _{ed} (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/22 5	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed} 1: 47/15 β_{ed} 2: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA are implemented as per following sub-tests.

Mode	Sub-test	ТХ	Power (dł Channel	Bm)	Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	22.73	22.62	22.55	18.8dBm – 25.7dBm	Pass
	2	20.78	20.69	20.59	16.8dBm – 25.7dBm	Pass
	3	21.79	21.64	21.63	17.8dBm – 25.7dBm	Pass
	4	20.91	20.74	20.63	16.8dBm – 25.7dBm	Pass
	5	22.62	22.48	22.46	18.8dBm – 25.7dBm	Pass



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Mode	Sub-test	TX	Power (dF	Bm)	Power Class 3 Limita-	Comments
			Channel		tion (dBm)	
		4132	4183	4233		
HSUPA(B4)	1	22.77	22.81	22.73	18.8dBm – 25.7dBm	Pass
	2	20.82	20.88	20.77	16.8dBm – 25.7dBm	Pass
	3	21.83	21.83	21.81	17.8dBm – 25.7dBm	Pass
	4	20.95	20.93	20.81	16.8dBm – 25.7dBm	Pass
	5	22.66	22.67	22.64	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	TX	Power (dE	Bm)	Power Class 3 Limita-	Comments
			Channel		tion (dBm)	
		1312 1413 1513				
HSUPA(B5)	1	22.82	23.01	22.73	18.8dBm – 25.7dBm	Pass
	2	20.88	21.09	20.77	16.8dBm – 25.7dBm	Pass
	3	21.86	22.07	21.81	17.8dBm – 25.7dBm	Pass
	4	20.93	21.15	20.85	16.8dBm – 25.7dBm	Pass
	5	22.68	22.84	22.62	18.8dBm – 25.7dBm	Pass



6. ERP, EIRP MEASUREMENT

6.1. Standard Applicable:

According to FCC §2.1046

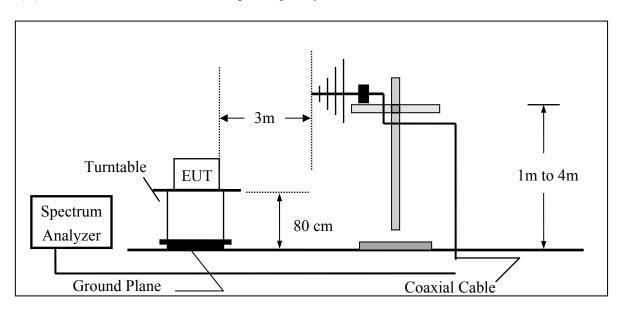
FCC 22.913(a) Mobile station are limited to 7W ERP.

FCC 24.232(b) Mobile station are limited to 2W EIRP.

FCC 27.50(d)(2) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

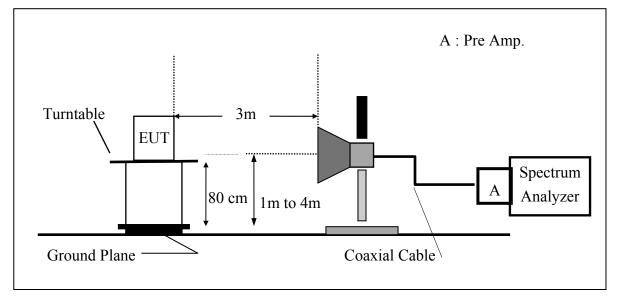
6.2. Test SET-UP (Block Diagram of Configuration):

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



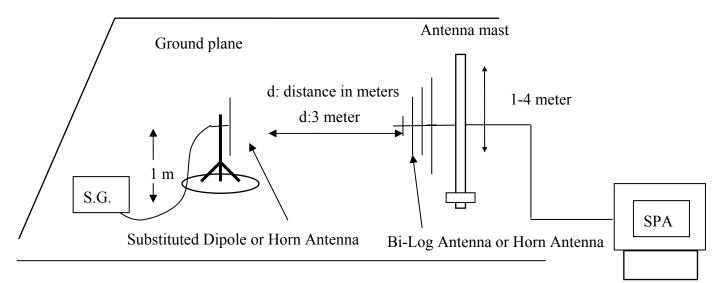


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz

(C) Substituted Method Test Set-UP





6.3. Measurement 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 the 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 –848.80MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1710-1755MHz and 1850.2 –1909.8MHz 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)

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report



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6.5. Measurement Result:

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
			Н	V	126.77	40.38	-7.87	3.62	28.88	38.45
		128		Н	124.65	38.38	-7.87	3.62	26.88	38.45
	824.20		E1	V	124.31	37.92	-7.87	3.62	26.42	38.45
	024.20	120	LI	Н	126.93	40.66	-7.87	3.62	29.16	38.45
			E2	V	121.00	34.61	-7.87	3.62	23.11	38.45
			E2	Н	126.99	40.72	-7.87	3.62	29.22	38.45
			Н	V	126.79	40.54	-7.88	3.65	29.01	38.45
			11	Н	124.08	37.85	-7.88	3.65	26.32	38.45
GPRS 850	836.60	190 H	E1	V	124.62	38.37	-7.88	3.65	26.84	38.45
UI K5 850	050.00		LI	Н	127.31	41.08	-7.88	3.65	29.55	38.45
			E2	V	119.89	33.64	-7.88	3.65	22.11	38.45
			ĽŹ	Н	127.13	40.90	-7.88	3.65	29.37	38.45
			Н	V	126.96	40.84	-7.88	3.68	29.28	38.45
			11	Н	124.73	38.54	-7.88	3.68	26.98	38.45
	848.80	251	E1	V	125.41	39.29	-7.88	3.68	27.73	38.45
	848.80	231		Н	128.04	41.85	-7.88	3.68	30.29	38.45
			E2	V	120.01	33.89	-7.88	3.68	22.33	38.45
				Н	128.37	42.18	-7.88	3.68	30.62	38.45

Remark :

(1) The RBW, VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz,



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Measurement Result:

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
			Н	V	124.65	20.26	9.90	5.56	24.60	33.00
				Н	126.34	22.16	9.90	5.56	26.50	33.00
	1850.20	512	E1	V	125.77	21.38	9.90	5.56	25.72	33.00
1830.20	1050.20	512		Н	122.36	18.18	9.90	5.56	22.52	33.00
		E2	V	115.27	10.88	9.90	5.56	15.22	33.00	
			1.2	Н	125.75	21.57	9.90	5.84	25.63	33.00
			Н	V	123.90	19.54	9.99	5.61	23.92	33.00
			11	Н	126.03	21.89	9.99	5.61	26.26	33.00
GPRS 1900	1880.00	661	E1	V	125.73	21.37	9.99	5.61	25.75	33.00
GI K5 1700	1000.00			Н	121.95	17.81	9.99	5.61	22.18	33.00
			E2	V	114.79	10.43	9.99	5.61	14.81	33.00
			E2	Н	124.23	20.09	9.99	5.61	24.46	33.00
			Н	V	123.73	19.40	10.08	5.66	23.82	33.00
			11	Н	125.12	21.01	10.08	5.66	25.43	33.00
	1909.80	810	E1	V	124.11	19.78	10.08	5.66	24.20	33.00
	1909.80	810	EI	Н	122.60	18.49	10.08	5.66	22.91	33.00
			E2	V	115.84	11.51	10.08	5.66	15.93	33.00
				Н	124.86	20.75	10.08	5.66	25.17	33.00

Remark :

(1) The RBW, VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz,



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Measurement Result:

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
			Н	V	122.50	36.11	-7.87	3.62	24.61	38.45
			11	Н	120.56	34.29	-7.87	3.62	22.79	38.45
	824.20	128	E1	V	121.10	34.71	-7.87	3.62	23.21	38.45
	024.20	120		Н	121.19	34.92	-7.87	3.62	23.42	38.45
			E2	V	113.02	26.63	-7.87	3.62	15.13	38.45
			E2	Н	122.81	36.54	-7.87	3.62	25.04	38.45
			Н	V	123.18	36.93	-7.88	3.65	25.40	38.45
			11	Н	121.40	35.17	-7.88	3.65	23.64	38.45
EDGE 850	836.60	190	E1	V	121.01	34.76	-7.88	3.65	23.23	38.45
EDGE 850	050.00	170	LI	Н	120.60	34.37	-7.88	3.65	22.84	38.45
			E2	V	113.12	26.87	-7.88	3.65	15.34	38.45
			E2	Н	122.86	36.63	-7.88	3.65	25.10	38.45
			Н	V	123.94	37.82	-7.88	3.68	26.26	38.45
			11	Н	121.76	35.57	-7.88	3.68	24.01	38.45
	848.80	251	E1	V	121.80	35.68	-7.88	3.68	24.12	38.45
	848.80	231	EI	Н	120.94	34.75	-7.88	3.68	23.19	38.45
			E2	V	114.24	28.12	-7.88	3.68	16.56	38.45
				Н	120.55	34.36	-7.88	3.68	22.80	38.45

Remark :

(1) The RBW, VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz,



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Measurement Result:

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
			Н	V	122.14	17.75	9.90	5.56	22.09	33.00
			11	Н	123.51	19.33	9.90	5.56	23.67	33.00
185	1850.20	512	E1	V	119.88	15.49	9.90	5.56	19.83	33.00
	1850.20	312	LI	Н	123.98	19.80	9.90	5.56	24.14	33.00
			E2	V	112.42	8.03	9.90	5.56	12.37	33.00
			E2	Н	124.03	19.85	9.90	5.84	23.91	33.00
			Н	V	123.20	18.84	9.99	5.61	23.22	33.00
			11	Н	121.54	17.40	9.99	5.61	21.77	33.00
EDGE 1900	1880.00	661	E1	V	123.01	18.65	9.99	5.61	23.03	33.00
EDGE 1900	1000.00			Н	119.98	15.84	9.99	5.61	20.21	33.00
			E2	V	122.87	18.51	9.99	5.61	22.89	33.00
			E2	Н	111.04	6.90	9.99	5.61	11.27	33.00
			Н	V	121.00	16.67	10.08	5.66	21.09	33.00
			11	Н	122.84	18.73	10.08	5.66	23.15	33.00
	1909.80	810	E1	V	118.83	14.50	10.08	5.66	18.91	33.00
	1909.80	9.80 810	EI	Н	121.87	17.76	10.08	5.66	22.18	33.00
			E2	V	111.03	6.70	10.08	5.66	11.12	33.00
				Н	123.33	19.22	10.08	5.66	23.64	33.00

Remark :

(1) The RBW, VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz,



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Measurement Result:

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
			Н	V	119.82	15.30	9.48	5.33	19.44	33.00
			11	Н	119.97	15.64	9.48	5.33	19.78	33.00
	1852.40	9262	E1	V	120.44	15.92	9.48	5.33	20.06	33.00
	1052.40	7202		Н	117.23	12.90	9.48	5.33	17.04	33.00
			E2	V	109.92	5.40	9.48	5.33	9.54	33.00
			L2	Н	122.31	17.98	9.90	5.84	22.04	33.00
			Н	V	119.42	14.92	9.54	5.36	19.09	33.00
			- 11	Н	120.57	16.26	9.54	5.36	20.43	33.00
WCDMA	1880.00	9400	E1 E2	V	120.05	15.55	9.54	5.36	19.72	33.00
Band II				Н	116.27	11.96	9.54	5.36	16.13	33.00
				V	107.91	3.41	9.54	5.36	7.58	33.00
				Н	121.56	17.25	9.54	5.36	21.42	33.00
			Н	V	119.77	15.29	9.61	5.40	19.49	33.00
			11	Н	121.06	16.77	9.61	5.40	20.98	33.00
		0539	E1	V	120.00	15.52	9.61	5.40	19.72	33.00
	1907.60	9538	EI	Н	116.65	12.36	9.61	5.40	16.57	33.00
			E2	V	109.74	5.26	9.61	5.40	9.46	33.00
				Н	122.86	18.57	9.61	5.40	22.78	33.00

Remark:

(1) The RBW, VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz



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Measurement Result:

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
			Н	V	120.43	13.47	9.90	5.41	17.97	33.00
			11	Н	122.80	15.91	9.90	5.41	20.41	33.00
	1712.40	1312	E1	V	124.51	17.55	9.90	5.41	22.05	33.00
	1/12.40	1312		Н	114.73	7.84	9.90	5.41	12.34	33.00
			E2	V	112.14	5.18	9.90	5.41	9.68	33.00
			E2	Н	124.04	17.15	9.90	5.84	21.21	33.00
			Н	V	118.27	11.32	9.99	5.46	15.85	33.00
			11	Н	120.74	13.87	9.99	5.46	18.40	33.00
WCDMA	1732.60	1413	E1	V	122.88	15.93	9.99	5.46	20.46	33.00
Band IV	1752.00	1415		Н	112.23	5.36	9.99	5.46	9.89	33.00
			E2	V	109.79	2.84	9.99	5.46	7.37	33.00
			L2	Н	122.36	15.49	9.99	5.46	20.02	33.00
			Н	V	119.81	12.87	10.07	5.51	17.44	33.00
			11	Н	122.00	15.14	10.07	5.51	19.71	33.00
	1752.60	1513	E1	V	124.02	17.08	10.07	5.51	21.65	33.00
	1/52.60	1513		Н	113.59	6.73	10.07	5.51	11.30	33.00
			E2	V	111.95	5.01	10.07	5.51	9.58	33.00
				Н	123.01	16.15	10.07	5.51	20.72	33.00

Remark:

(1) The RBW, VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz



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Measurement Result:

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
			Н	V	119.01	32.65	-7.88	3.63	21.14	38.45
			11	Н	115.74	29.48	-7.88	3.63	17.98	38.45
	826.40	4132	E1	V	116.06	29.70	-7.88	3.63	18.19	38.45
	020.40	7152		Н	116.18	29.92	-7.88	3.63	18.42	38.45
			E2	V	106.59	20.23	-7.88	3.63	8.72	38.45
			E2	Н	117.72	31.46	-7.88	3.63	19.96	38.45
			Н	V	119.70	33.44	-7.88	3.65	21.91	38.45
			11	Н	116.63	30.40	-7.88	3.65	18.87	38.45
WCDMA	836.60	1183	4183 E1 E2	V	117.76	31.50	-7.88	3.65	19.97	38.45
Band V	050.00	4183		Н	117.48	31.25	-7.88	3.65	19.72	38.45
				V	108.17	21.91	-7.88	3.65	10.38	38.45
				Н	119.30	33.07	-7.88	3.65	21.54	38.45
			Н	V	119.87	33.72	-7.88	3.67	22.17	38.45
			11	Н	116.76	30.56	-7.88	3.67	19.01	38.45
	846.60	4233	E1	V	118.18	32.02	-7.88	3.67	20.47	38.45
	040.00	+233		Н	118.26	32.06	-7.88	3.67	20.51	38.45
			E2	V	108.67	22.52	-7.88	3.67	10.97	38.45
				Н	119.75	33.55	-7.88	3.67	22.00	38.45

Remark:

(1)The RBW, VBW of SPA for frequency

RBW= 5MHz, VBW= 8MHz



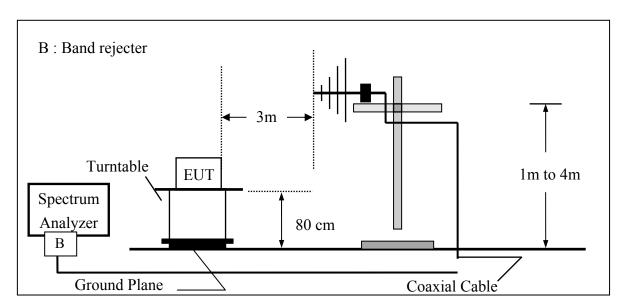
7. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

7.1. Standard Applicable:

According to FCC §2.1053,

FCC \$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 specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

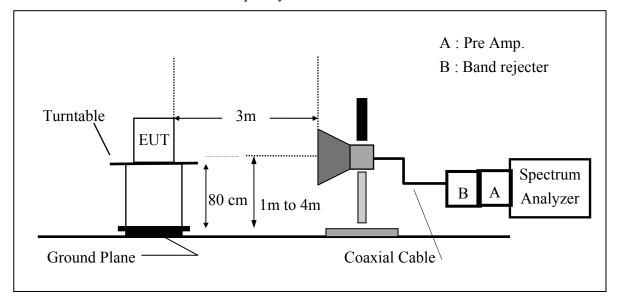
7.2. EUT Setup (Block Diagram of Configuration):



Radiated Emission Test Set-Up, Frequency Below 1000MHz



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Radiated Emission Test Set-UP Frequency Over 1 GHz

7.3. Measurement Procedure:

The EUT was placed on a non-conductive; The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

7.5. Measurement Result:

Refer to attach tabular data sheets.



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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 824.20 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	43.16	V	-59.01	-3.25	0.90	-63.15	-13.00	-50.15
92.08	42.92	V	-60.01	-7.75	1.29	-69.05	-13.00	-56.05
104.69	40.59	V	-60.90	-7.76	1.38	-70.04	-13.00	-57.04
148.34	32.29	V	-65.15	-7.80	1.58	-74.53	-13.00	-61.53
383.08	33.32	V	-62.90	-7.65	2.46	-73.01	-13.00	-60.01
824.00	69.22	V	-17.17	-7.87	3.62	-28.67	-13.00	-15.67
1643.50	56.73	V	-47.86	9.27	5.22	-43.80	-13.00	-30.80
2472.60	41.45	V	-59.56	10.08	6.53	-56.01	-13.00	-43.01
3296.80		V		12.17	7.71		-13.00	
4121.00		V		12.61	8.86		-13.00	
4945.20		V		12.65	9.74		-13.00	
5769.40		V		13.55	10.54		-13.00	
6593.60		V		12.05	11.30		-13.00	
7417.80		V		11.49	12.10		-13.00	
8242.00		V		11.48	12.71		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

1 The emission behaviors belong to narrowband spurious emission.

2 Remark"----" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 824.20 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	43.66	Н	-59.53	-3.25	0.90	-63.68	-13.00	-50.68
92.08	44.13	Н	-59.46	-7.75	1.29	-68.50	-13.00	-55.50
104.69	41.98	Н	-60.53	-7.76	1.38	-69.67	-13.00	-56.67
158.04	31.99	Н	-66.40	-7.81	1.61	-75.82	-13.00	-62.82
824.00	78.85	Н	-7.42	-7.87	3.62	-18.92	-13.00	-5.92
1648.40	60.28	Н	-44.12	9.29	5.23	-40.06	-13.00	-27.06
2472.60	48.62	Н	-52.29	10.08	6.53	-48.74	-13.00	-35.74
3296.80		Н		12.17	7.71		-13.00	
4121.00		Н		12.61	8.86		-13.00	
4945.20		Н		12.65	9.74		-13.00	
5769.40		Н		13.55	10.54		-13.00	
6593.60		Н		12.05	11.30		-13.00	
7417.80		Н		11.49	12.10		-13.00	
8242.00		Н		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 836.60 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	42.71	V	-59.46	-3.25	0.90	-63.60	-13.00	-50.60
92.08	46.18	V	-56.75	-7.75	1.29	-65.79	-13.00	-52.79
148.34	31.80	V	-65.64	-7.80	1.58	-75.02	-13.00	-62.02
478.14	33.72	V	-60.33	-7.71	2.74	-70.78	-13.00	-57.78
1673.20	56.27	V	-48.29	9.36	5.27	-44.19	-13.00	-31.19
2509.80	48.62	V	-52.16	10.09	6.58	-48.66	-13.00	-35.66
3346.40		V		12.28	7.79		-13.00	
4183.00		V		12.62	8.93		-13.00	
5019.60		V		12.67	9.81		-13.00	
5856.20		V		13.68	10.62		-13.00	
6692.80		V		11.95	11.39		-13.00	
7529.40		V		11.45	12.20		-13.00	
8366.00		V		11.59	12.81		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 836.60 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	41.74	Н	-61.45	-3.25	0.90	-65.60	-13.00	-52.60
92.08	47.55	Н	-56.04	-7.75	1.29	-65.08	-13.00	-52.08
104.69	45.43	Н	-57.08	-7.76	1.38	-66.22	-13.00	-53.22
153.19	32.34	Н	-65.68	-7.80	1.60	-75.08	-13.00	-62.08
468.44	33.26	Н	-60.47	-7.71	2.71	-70.89	-13.00	-57.89
1673.20	62.35	Н	-42.03	9.36	5.27	-37.93	-13.00	-24.93
2509.80	48.46	Н	-52.24	10.09	6.58	-48.74	-13.00	-35.74
3346.40		Н		12.28	7.79		-13.00	
4183.00		Н		12.62	8.93		-13.00	
5019.60		Н		12.67	9.81		-13.00	
5856.20		Н		13.68	10.62		-13.00	
6692.80		Н		11.95	11.39		-13.00	
7529.40		Н		11.45	12.20		-13.00	
8366.00		Н		11.59	12.81		-13.00	

	30MHz - 80MHz: 5.04dB		
Measurement uncertainty	80MHz -1000MHz: 3.76dB		
	1GHz - 13GHz: 4.45dB		

Remark:

1 The emission behaviors belong to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 848.80 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	42.32	V	-59.85	-3.25	0.90	-63.99	-13.00	-50.99
92.08	48.88	V	-54.05	-7.75	1.29	-63.09	-13.00	-50.09
104.69	45.04	V	-56.45	-7.76	1.38	-65.59	-13.00	-52.59
148.34	31.55	V	-65.89	-7.80	1.58	-75.27	-13.00	-62.27
387.93	33.70	V	-62.31	-7.66	2.47	-72.44	-13.00	-59.44
849.03	78.85	V	-7.27	-7.88	3.68	-18.83	-13.00	-5.83
1697.60	60.16	V	-44.38	9.44	5.31	-40.25	-13.00	-27.25
2546.40	49.94	V	-50.70	10.20	6.63	-47.14	-13.00	-34.14
3395.20		V		12.38	7.87		-13.00	
4244.00		V		12.63	9.00		-13.00	
5092.80		V		12.74	9.88		-13.00	
5941.60		V		13.81	10.70		-13.00	
6790.40		V		11.86	11.48		-13.00	
7639.20		V		11.40	12.27		-13.00	
8488.00		V		11.70	12.91		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

1 The emission behaviors belong to narrowband spurious emission.

2 Remark"----" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 848.80 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	41.97	Н	-61.22	-3.25	0.90	-65.37	-13.00	-52.37
92.08	43.42	Н	-60.17	-7.75	1.29	-69.21	-13.00	-56.21
155.13	32.31	Н	-65.86	-7.80	1.60	-75.26	-13.00	-62.26
426.73	33.59	Н	-61.48	-7.68	2.59	-71.75	-13.00	-58.75
849.00	80.28	Н	-5.91	-7.88	3.68	-17.47	-13.00	-4.47
1697.60	62.58	Н	-41.77	9.44	5.31	-37.64	-13.00	-24.64
2546.40	49.99	Н	-50.61	10.20	6.63	-47.05	-13.00	-34.05
3395.20		Н		12.38	7.87		-13.00	
4244.00		Н		12.63	9.00		-13.00	
5092.80		Н		12.74	9.88		-13.00	
5941.60		Н		13.81	10.70		-13.00	
6790.40		Н		11.86	11.48		-13.00	
7639.20		Н		11.40	12.27		-13.00	
8488.00		Н		11.70	12.91		-13.00	

	30MHz - 80MHz: 5.04dB	
Measurement uncertainty	80MHz -1000MHz: 3.76dB	
	1GHz - 13GHz: 4.45dB	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	y : 1850.20MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	48.32	V	-57.86	-0.92	1.09	-59.88	-13.00	-46.88
92.08	47.24	V	-55.69	-7.75	1.29	-64.73	-13.00	-51.73
104.69	45.36	V	-56.13	-7.76	1.38	-65.27	-13.00	-52.27
150.28	33.10	V	-64.22	-7.80	1.59	-73.61	-13.00	-60.61
1850.00	75.68	V	-28.71	9.90	5.56	-24.37	-13.00	-11.37
3700.40	46.49	V	-51.44	12.61	8.31	-47.14	-13.00	-34.14
5550.60		V		13.23	10.33		-13.00	
7400.80		V		11.50	12.08		-13.00	
9251.00		V		11.92	13.50		-13.00	
11101.20		V		11.66	15.11		-13.00	
12951.40		V		13.63	16.60		-13.00	
14801.60		V		12.76	17.95		-13.00	
16651.80		V		15.92	19.14		-13.00	
18502.00		V		18.75	10.40		-13.00	

	30MHz - 80MHz: 5.04dB		
Measurement uncertainty	80MHz -1000MHz: 3.76dB		
	1GHz - 13GHz: 4.45dB		

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1850.20MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	46.98	Н	-59.44	-0.92	1.09	-61.46	-13.00	-48.46
92.08	45.37	Н	-58.22	-7.75	1.29	-67.26	-13.00	-54.26
159.98	34.21	Н	-64.33	-7.81	1.61	-73.76	-13.00	-60.76
288.99	33.77	Н	-64.23	-7.91	2.13	-74.28	-13.00	-61.28
1850.00	77.21	Н	-26.97	9.90	5.56	-22.63	-13.00	-9.63
3700.40	47.08	Н	-50.96	12.61	8.31	-46.66	-13.00	-33.66
5550.60		Н		13.23	10.33		-13.00	
7400.80		Н		11.50	12.08		-13.00	
9251.00		Н		11.92	13.50		-13.00	
11101.20		Н		11.66	15.11		-13.00	
12951.40		Н		13.63	16.60		-13.00	
14801.60		Н		12.76	17.95		-13.00	
16651.80		Н		15.92	19.14		-13.00	
18502.00		Н		18.75	10.40		-13.00	

	30MHz - 80MHz: 5.04dB		
Measurement uncertainty	80MHz -1000MHz: 3.76dB		
	1GHz - 13GHz: 4.45dB		

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1880MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	48.95	V	-57.23	-0.92	1.09	-59.25	-13.00	-46.25
92.08	47.75	V	-55.18	-7.75	1.29	-64.22	-13.00	-51.22
104.69	46.49	V	-55.00	-7.76	1.38	-64.14	-13.00	-51.14
143.49	34.12	V	-63.77	-7.79	1.56	-73.13	-13.00	-60.13
3760.00	44.34	V	-53.32	12.60	8.39	-49.10	-13.00	-36.10
5640.00		V		13.36	10.41		-13.00	
7520.00		V		11.45	12.19		-13.00	
9400.00		V		11.93	13.61		-13.00	
11280.00		V		11.92	15.27		-13.00	
13160.00		V		13.33	16.71		-13.00	
15040.00		V		13.76	18.15		-13.00	
16920.00		V		15.27	19.32		-13.00	
18800.00		V		18.68	16.58		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1880MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	46.70	Н	-59.72	-0.92	1.09	-61.74	-13.00	-48.74
92.08	46.43	Н	-57.16	-7.75	1.29	-66.20	-13.00	-53.20
150.28	33.52	Н	-64.27	-7.80	1.59	-73.66	-13.00	-60.66
290.93	33.38	Н	-64.56	-7.91	2.14	-74.61	-13.00	-61.61
3760.00	44.84	Н	-52.93	12.60	8.39	-48.72	-13.00	-35.72
5640.00		Н		13.36	10.41		-13.00	
7520.00		Н		11.45	12.19		-13.00	
9400.00		Н		11.93	13.61		-13.00	
11280.00		Н		11.92	15.27		-13.00	
13160.00		Н		13.33	16.71		-13.00	
15040.00		Н		13.76	18.15		-13.00	
16920.00		Н		15.27	19.32		-13.00	
18800.00		Н		18.68	16.58		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1909.8 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
70.74	42.50	V	-69.26	-1.18	1.16	-71.61	-13.00	-58.61
101.78	45.68	V	-56.08	-7.76	1.37	-65.20	-13.00	-52.20
148.34	32.91	V	-64.53	-7.80	1.58	-73.91	-13.00	-60.91
381.14	33.19	V	-63.11	-7.65	2.45	-73.22	-13.00	-60.22
1910.00	74.92	V	-29.41	10.08	5.66	-24.99	-13.00	-11.99
3819.60	42.85	V	-54.54	12.60	8.47	-50.41	-13.00	-37.41
5729.40		V		13.49	10.50		-13.00	
7639.20		V		11.40	12.27		-13.00	
9549.00		V		11.95	13.74		-13.00	
11458.80		V		12.17	15.43		-13.00	
13368.60		V		12.97	16.82		-13.00	
15278.40		V		15.00	18.29		-13.00	
17188.20		V		14.47	19.52		-13.00	
19098.00		V		18.66	20.78		-13.00	

	30MHz - 80MHz: 5.04dB		
Measurement uncertainty	80MHz -1000MHz: 3.76dB		
	1GHz - 13GHz: 4.45dB		

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1909.8 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
56.19	40.37	Н	-69.27	-0.51	1.09	-70.87	-13.00	-57.87
101.78	43.88	Н	-58.93	-7.76	1.37	-68.06	-13.00	-55.06
148.34	33.29	Н	-64.65	-7.80	1.58	-74.03	-13.00	-61.03
383.08	32.80	Н	-63.89	-7.65	2.46	-74.00	-13.00	-61.00
1910.01	76.21	Н	-27.90	10.08	5.66	-23.48	-13.00	-10.48
3819.60	44.37	Н	-53.14	12.60	8.47	-49.00	-13.00	-36.00
5729.40		Н		13.49	10.50		-13.00	
7639.20		Н		11.40	12.27		-13.00	
9549.00		Н		11.95	13.74		-13.00	
11458.80		Н		12.17	15.43		-13.00	
13368.60		Н		12.97	16.82		-13.00	
15278.40		Н		15.00	18.29		-13.00	
17188.20		Н		14.47	19.52		-13.00	
19098.00		Н		18.66	20.78		-13.00	

	30MHz - 80MHz: 5.04dB		
Measurement uncertainty	80MHz -1000MHz: 3.76dB		
	1GHz - 13GHz: 4.45dB		

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1852.4MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	44.66	V	-61.52	-0.92	1.09	-63.54	-13.00	-50.54
92.08	49.71	V	-53.22	-7.75	1.29	-62.26	-13.00	-49.26
104.69	48.92	V	-52.57	-7.76	1.38	-61.71	-13.00	-48.71
148.34	33.27	V	-64.17	-7.80	1.58	-73.55	-13.00	-60.55
1850.00	57.81	V	-46.58	9.90	5.56	-42.24	-13.00	-29.24
3704.80	44.17	V	-53.74	12.61	8.31	-49.45	-13.00	-36.45
5557.20		V		13.24	10.33		-13.00	
7409.60		V		11.49	12.09		-13.00	
9262.00		V		11.92	13.51		-13.00	
11114.40		V		11.68	15.12		-13.00	
12966.80		V		13.62	16.61		-13.00	
14819.20		V		12.83	17.96		-13.00	
16671.60		V		15.87	19.15		-13.00	
18524.00		V		18.74	10.86		-13.00	

	30MHz - 80MHz: 5.04dB		
Measurement uncertainty	80MHz -1000MHz: 3.76dB		
	1GHz - 13GHz: 4.45dB		

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1852.4MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	46.73	Н	-56.16	-2.79	0.89	-59.85	-13.00	-46.85
92.08	49.84	Н	-53.75	-7.75	1.29	-62.79	-13.00	-49.79
104.69	45.31	Н	-57.20	-7.76	1.38	-66.34	-13.00	-53.34
148.34	33.41	Н	-64.53	-7.80	1.58	-73.91	-13.00	-60.91
1850.00	64.96	Н	-39.22	9.90	5.56	-34.88	-13.00	-21.88
3704.80	53.08	Н	-44.94	12.61	8.31	-40.65	-13.00	-27.65
5557.20		Н		13.24	10.33		-13.00	
7409.60		Н		11.49	12.09		-13.00	
9262.00		Н		11.92	13.51		-13.00	
11114.40		Н		11.68	15.12		-13.00	
12966.80		Н		13.62	16.61		-13.00	
14819.20		Н		12.83	17.96		-13.00	
16671.60		Н		15.87	19.15		-13.00	
18524.00		Н		18.74	10.86		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1880MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	47.81	V	-58.37	-0.92	1.09	-60.39	-13.00	-47.39
92.08	49.84	V	-53.09	-7.75	1.29	-62.13	-13.00	-49.13
104.69	49.55	V	-51.94	-7.76	1.38	-61.08	-13.00	-48.08
148.34	33.35	V	-64.09	-7.80	1.58	-73.47	-13.00	-60.47
523.73	32.45	V	-60.91	-7.74	2.88	-71.52	-13.00	-58.52
3760.00	36.52	V	-61.14	12.60	8.39	-56.92	-13.00	-43.92
5640.00		V		13.36	10.41		-13.00	
7520.00		V		11.45	12.19		-13.00	
9400.00		V		11.93	13.61		-13.00	
11280.00		V		11.92	15.27		-13.00	
13160.00		V		13.33	16.71		-13.00	
15040.00		V		13.76	18.15		-13.00	
16920.00		V		15.27	19.32		-13.00	
18800.00		V		18.68	16.58		-13.00	

	30MHz - 80MHz: 5.04dB		
Measurement uncertainty	80MHz -1000MHz: 3.76dB		
	1GHz - 13GHz: 4.45dB		

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1880MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	49.81	Н	-56.61	-0.92	1.09	-58.63	-13.00	-45.63
92.08	50.80	Н	-52.79	-7.75	1.29	-61.83	-13.00	-48.83
104.69	46.25	Н	-56.26	-7.76	1.38	-65.40	-13.00	-52.40
148.34	33.54	Н	-64.40	-7.80	1.58	-73.78	-13.00	-60.78
383.08	33.67	Н	-63.02	-7.65	2.46	-73.13	-13.00	-60.13
3760.00	45.04	Н	-52.73	12.60	8.39	-48.52	-13.00	-35.52
5640.00		Н		13.36	10.41		-13.00	
7520.00		Н		11.45	12.19		-13.00	
9400.00		Н		11.93	13.61		-13.00	
11280.00		Н		11.92	15.27		-13.00	
13160.00		Н		13.33	16.71		-13.00	
15040.00		Н		13.76	18.15		-13.00	
16920.00		Н		15.27	19.32		-13.00	
18800.00		Н		18.68	16.58		-13.00	

	30MHz - 80MHz: 5.04dB	
Measurement uncertainty	80MHz -1000MHz: 3.76dB	
	1GHz - 13GHz: 4.45dB	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1907.6 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	48.01	V	-58.17	-0.92	1.09	-60.19	-13.00	-47.19
90.14	46.58	V	-56.60	-7.75	1.27	-65.62	-13.00	-52.62
104.69	48.78	V	-52.71	-7.76	1.38	-61.85	-13.00	-48.85
148.34	32.92	V	-64.52	-7.80	1.58	-73.90	-13.00	-60.90
436.43	32.21	V	-62.15	-7.69	2.62	-72.45	-13.00	-59.45
1910.00	60.02	V	-44.31	10.08	5.66	-39.89	-13.00	-26.89
3815.20	41.22	V	-56.19	12.60	8.46	-52.05	-13.00	-39.05
5722.80		V		13.48	10.49		-13.00	
7630.40		V		11.41	12.27		-13.00	
9538.00		V		11.95	13.73		-13.00	
11445.60		V		12.15	15.42		-13.00	
13353.20		V		13.00	16.81		-13.00	
15260.80		V		14.91	18.28		-13.00	
17168.40		V		14.53	19.50		-13.00	
19076.00		V		18.65	20.76		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1907.6 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	46.61	Н	-56.28	-2.79	0.89	-59.97	-13.00	-46.97
92.08	49.38	Н	-54.21	-7.75	1.29	-63.25	-13.00	-50.25
104.69	45.99	Н	-56.52	-7.76	1.38	-65.66	-13.00	-52.66
155.13	33.72	Н	-64.45	-7.80	1.60	-73.85	-13.00	-60.85
1910.00	67.83	Н	-36.28	10.08	5.66	-31.86	-13.00	-18.86
3815.20	52.97	Н	-44.56	12.60	8.46	-40.42	-13.00	-27.42
5722.80		Н		13.48	10.49		-13.00	
7630.40		Н		11.41	12.27		-13.00	
9538.00		Н		11.95	13.73		-13.00	
11445.60		Н		12.15	15.42		-13.00	
13353.20		Н		13.00	16.81		-13.00	
15260.80		Н		14.91	18.28		-13.00	
17168.40		Н		14.53	19.50		-13.00	
19076.00		Н		18.65	20.76		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

Operation Mode	: TX CH Low E1 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1712.40MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	47.52	V	-58.66	-0.92	0.88	-60.47	-13.00	-47.47
92.08	47.85	V	-56.40	-7.75	1.17	-65.33	-13.00	-52.33
104.69	46.38	V	-56.75	-7.76	1.24	-65.75	-13.00	-52.75
148.34	32.72	V	-65.09	-7.80	1.46	-74.35	-13.00	-61.35
387.93	32.65	V	-63.86	-7.66	2.43	-73.95	-13.00	-60.95
1709.85	67.74	V	-39.28	9.47	5.16	-34.96	-13.00	-21.96
3424.80	34.35	V	-68.18	12.45	7.35	-63.09	-13.00	-50.09
5137.20		V		12.79	9.36		-13.00	
6849.60		V		11.80	10.94		-13.00	
8562.00		V		11.73	12.66		-13.00	
10274.40		V		11.85	13.80		-13.00	
11986.80		V		13.15	15.25		-13.00	
13699.20		V		12.32	16.55		-13.00	
15411.60		V		15.69	18.06		-13.00	
17124.00		V		14.68	19.79		-13.00	

	30MHz - 80MHz: 5.04dB				
Measurement uncertainty	80MHz -1000MHz: 3.76dB				
	1GHz - 13GHz: 4.45dB				

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

Operation Mode	: TX CH Low E1 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1712.40MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	47.68	Н	-58.74	-0.92	0.88	-60.55	-13.00	-47.55
92.08	47.91	Н	-55.69	-7.75	1.17	-64.61	-13.00	-51.61
104.69	43.83	Н	-58.94	-7.76	1.24	-67.94	-13.00	-54.94
148.34	33.09	Н	-65.64	-7.80	1.46	-74.90	-13.00	-61.90
453.89	32.56	Н	-62.72	-7.70	2.58	-73.00	-13.00	-60.00
1709.85	78.38	Н	-28.59	9.47	5.16	-24.28	-13.00	-11.28
3424.80	33.36	Н	-68.90	12.45	7.35	-63.81	-13.00	-50.81
5137.20		Н		12.79	9.36		-13.00	
6849.60		Н		11.80	10.94		-13.00	
8562.00		Н		11.73	12.66		-13.00	
10274.40		Н		11.85	13.80		-13.00	
11986.80		Н		13.15	15.25		-13.00	
13699.20		Н		12.32	16.55		-13.00	
15411.60		Н		15.69	18.06		-13.00	
17124.00		Н		14.68	19.79		-13.00	

	30MHz - 80MHz: 5.04dB				
Measurement uncertainty	80MHz -1000MHz: 3.76dB				
	1GHz - 13GHz: 4.45dB				

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

Operation Mode	: TX CH Mid E1 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1732.60 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	47.04	V	-59.14	-0.92	0.88	-60.95	-13.00	-47.95
92.08	47.65	V	-56.60	-7.75	1.17	-65.53	-13.00	-52.53
104.69	47.66	V	-55.47	-7.76	1.24	-64.47	-13.00	-51.47
153.19	33.05	V	-64.85	-7.80	1.47	-74.12	-13.00	-61.12
455.83	32.43	V	-62.19	-7.70	2.58	-72.47	-13.00	-59.47
3465.20	35.20	V	-67.31	12.53	7.38	-62.16	-13.00	-49.16
5197.80		V		12.85	9.41		-13.00	
6930.40		V		11.72	11.05		-13.00	
8663.00		V		11.77	12.74		-13.00	
10395.60		V		11.75	13.95		-13.00	
12128.20		V		13.35	15.32		-13.00	
13860.80		V		11.98	16.77		-13.00	
15593.40		V		16.35	18.21		-13.00	
17326.00		V		14.02	19.68		-13.00	

	30MHz - 80MHz: 5.04dB		
Measurement uncertainty	80MHz -1000MHz: 3.76dB		
	1GHz - 13GHz: 4.45dB		

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

Operation Mode	: TX CH Mid E1 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 1732.60 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	48.65	Н	-57.77	-0.92	0.88	-59.58	-13.00	-46.58
92.08	47.25	Н	-56.35	-7.75	1.17	-65.27	-13.00	-52.27
104.69	44.83	Н	-57.94	-7.76	1.24	-66.94	-13.00	-53.94
155.13	33.21	Н	-65.70	-7.80	1.48	-74.98	-13.00	-61.98
465.53	32.25	Н	-62.68	-7.71	2.61	-73.00	-13.00	-60.00
3465.20	33.93	Н	-68.30	12.53	7.38	-63.15	-13.00	-50.15
5197.80		Н		12.85	9.41		-13.00	
6930.40		Н		11.72	11.05		-13.00	
8663.00		Н		11.77	12.74		-13.00	
10395.60		Н		11.75	13.95		-13.00	
12128.20		Н		13.35	15.32		-13.00	
13860.80		Н		11.98	16.77		-13.00	
15593.40		Н		16.35	18.21		-13.00	
17326.00		Н		14.02	19.68		-13.00	

	30MHz - 80MHz: 5.04dB		
Measurement uncertainty	80MHz -1000MHz: 3.76dB		
	1GHz - 13GHz: 4.45dB		

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

Operation Mode	: TX CH High E1 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	:1752.60 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	48.51	V	-57.67	-0.92	0.88	-59.48	-13.00	-46.48
92.08	47.63	V	-56.62	-7.75	1.17	-65.55	-13.00	-52.55
104.69	47.24	V	-55.89	-7.76	1.24	-64.89	-13.00	-51.89
148.34	32.91	V	-64.90	-7.80	1.46	-74.16	-13.00	-61.16
487.84	33.00	V	-61.61	-7.72	2.69	-72.02	-13.00	-59.02
1755.06	58.96	V	-48.04	9.61	5.24	-43.67	-13.00	-30.67
3505.20	35.01	V	-67.47	12.61	7.42	-62.27	-13.00	-49.27
5257.80		V		12.91	9.46		-13.00	
7010.40		V		11.65	11.14		-13.00	
8763.00		V		11.80	12.82		-13.00	
10515.60		V		11.66	14.08		-13.00	
12268.20		V		13.54	15.39		-13.00	
14020.80		V		11.67	16.95		-13.00	
15773.40		V		16.75	18.27		-13.00	
17526.00		V		13.21	19.62		-13.00	

	30MHz - 80MHz: 5.04dB	
Measurement uncertainty	80MHz -1000MHz: 3.76dB	
	1GHz - 13GHz: 4.45dB	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

Operation Mode	: TX CH High E1 Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	:1752.60 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	48.20	Н	-58.22	-0.92	0.88	-60.03	-13.00	-47.03
92.08	47.36	Н	-56.24	-7.75	1.17	-65.16	-13.00	-52.16
104.69	44.98	Н	-57.79	-7.76	1.24	-66.79	-13.00	-53.79
155.13	33.63	Н	-65.28	-7.80	1.48	-74.56	-13.00	-61.56
480.08	32.71	Н	-61.78	-7.71	2.66	-72.16	-13.00	-59.16
1755.06	68.96	Н	-37.99	9.61	5.24	-33.62	-13.00	-20.62
3505.20	34.88	Н	-67.30	12.61	7.42	-62.11	-13.00	-49.11
5257.80		Н		12.91	9.46		-13.00	
7010.40		Н		11.65	11.14		-13.00	
8763.00		Н		11.80	12.82		-13.00	
10515.60		Н		11.66	14.08		-13.00	
12268.20		Н		13.54	15.39		-13.00	
14020.80		Н		11.67	16.95		-13.00	
15773.40		Н		16.75	18.27		-13.00	
17526.00		Н		13.21	19.62		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

1 The emission behaviors belong to narrowband spurious emission.

2 Remark"----" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 826.4 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	42.61	V	-63.57	-0.92	1.09	-65.59	-13.00	-52.59
92.08	44.11	V	-58.82	-7.75	1.29	-67.86	-13.00	-54.86
104.69	41.55	V	-59.94	-7.76	1.38	-69.08	-13.00	-56.08
133.79	33.21	V	-65.58	-7.79	1.52	-74.88	-13.00	-61.88
824.00	54.68	V	-31.71	-7.87	3.62	-43.21	-13.00	-30.21
1652.80	36.08	V	-68.50	9.30	5.23	-64.43	-13.00	-51.43
2479.20		V		10.07	6.54		-13.00	
3305.60		V		12.19	7.73		-13.00	
4132.00		V		12.62	8.87		-13.00	
4958.40		V		12.65	9.75		-13.00	
5784.80		V		13.58	10.55		-13.00	
6611.20		V		12.03	11.31		-13.00	
7437.60		V		11.48	12.12		-13.00	
8264.00		V		11.50	12.73		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 826.4MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	42.59	Н	-60.60	-3.25	0.90	-64.75	-13.00	-51.75
48.43	40.17	Н	-66.25	-0.92	1.09	-68.27	-13.00	-55.27
92.08	43.62	Н	-59.97	-7.75	1.29	-69.01	-13.00	-56.01
155.13	32.38	Н	-65.79	-7.80	1.60	-75.19	-13.00	-62.19
824.00	61.05	Н	-25.22	-7.87	3.62	-36.72	-13.00	-23.72
1652.80	40.46	Н	-63.94	9.30	5.23	-59.87	-13.00	-46.87
2479.20		Н		10.07	6.54		-13.00	
3305.60		Н		12.19	7.73		-13.00	
4132.00		Н		12.62	8.87		-13.00	
4958.40		Н		12.65	9.75		-13.00	
5784.80		Н		13.58	10.55		-13.00	
6611.20		Н		12.03	11.31		-13.00	
7437.60		Н		11.48	12.12		-13.00	
8264.00		Н		11.50	12.73		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency		Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	42.43	V	-63.75	-0.92	1.09	-65.77	-13.00	-52.77
92.08	44.11	V	-58.82	-7.75	1.29	-67.86	-13.00	-54.86
104.69	42.48	V	-59.01	-7.76	1.38	-68.15	-13.00	-55.15
150.28	32.16	V	-65.16	-7.80	1.59	-74.55	-13.00	-61.55
1673.20	37.20	V	-67.36	9.36	5.27	-63.26	-13.00	-50.26
2509.80		V		10.09	6.58		-13.00	
3346.40		V		12.28	7.79		-13.00	
4183.00		V		12.62	8.93		-13.00	
5019.60		V		12.67	9.81		-13.00	
5856.20		V		13.68	10.62		-13.00	
6692.80		V		11.95	11.39		-13.00	
7529.40		V		11.45	12.20		-13.00	
8366.00		V		11.59	12.81		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 836.6MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	42.76	Н	-60.43	-3.25	0.90	-64.58	-13.00	-51.58
48.43	40.53	Н	-65.89	-0.92	1.09	-67.91	-13.00	-54.91
92.08	44.36	Н	-59.23	-7.75	1.29	-68.27	-13.00	-55.27
155.13	32.56	Н	-65.61	-7.80	1.60	-75.01	-13.00	-62.01
1673.20	42.84	Н	-61.54	9.36	5.27	-57.44	-13.00	-44.44
2509.80		Н		10.09	6.58		-13.00	
3346.40		Н		12.28	7.79		-13.00	
4183.00		Н		12.62	8.93		-13.00	
5019.60		Н		12.67	9.81		-13.00	
5856.20		Н		13.68	10.62		-13.00	
6692.80		Н		11.95	11.39		-13.00	
7529.40		Н		11.45	12.20		-13.00	
8366.00		Н		11.59	12.81		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH High H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 846.6MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	38.77	V	-63.40	-3.25	0.90	-67.54	-13.00	-54.54
46.49	39.27	V	-65.90	-1.32	1.05	-68.27	-13.00	-55.27
104.69	41.88	V	-59.61	-7.76	1.38	-68.75	-13.00	-55.75
148.34	32.17	V	-65.27	-7.80	1.58	-74.65	-13.00	-61.65
850.00	56.10	V	-30.01	-7.88	3.68	-41.57	-13.00	-28.57
1693.20	38.69	V	-65.85	9.42	5.30	-61.73	-13.00	-48.73
2539.80		V		10.18	6.62		-13.00	
3386.40		V		12.36	7.85		-13.00	
4233.00		V		12.63	8.99		-13.00	
5079.60		V		12.73	9.87		-13.00	
5926.20		V		13.79	10.69		-13.00	
6772.80		V		11.87	11.47		-13.00	
7619.40		V		11.41	12.26		-13.00	
8466.00		V		11.68	12.89		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)



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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH High H Mode	Test Date:	Nov. 07, 2010
Fundamental Frequency	: 846.6MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	42.22	Н	-60.97	-3.25	0.90	-65.12	-13.00	-52.12
92.08	43.13	Н	-60.46	-7.75	1.29	-69.50	-13.00	-56.50
104.69	39.08	Н	-63.43	-7.76	1.38	-72.57	-13.00	-59.57
148.34	32.04	Н	-65.90	-7.80	1.58	-75.28	-13.00	-62.28
850.00	65.36	Н	-20.83	-7.88	3.68	-32.39	-13.00	-19.39
1693.20	42.96	Н	-61.39	9.42	5.30	-57.27	-13.00	-44.27
2539.80		Н		10.18	6.62		-13.00	
3386.40		Н		12.36	7.85		-13.00	
4233.00		Н		12.63	8.99		-13.00	
5079.60		Н		12.73	9.87		-13.00	
5926.20		Н		13.79	10.69		-13.00	
6772.80		Н		11.87	11.47		-13.00	
7619.40		Н		11.41	12.26		-13.00	
8466.00		Н		11.68	12.89		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"----" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) Cable loss (dB)