

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E, PART 27***For*

Product Description: Multi-band Radio Module

Trade Name: N/A

Product Description of Host: Mini-PCIe Wireless WAN (Gobi3000) card installed in an HP HSTNN-I06C NB

Model No. of Host: HSTNN-I06C

Model Difference of Host: N/A

Model No. for WWAN Module: MC8355

FCC ID: B94HNI06C

Pre-PBA number : KDB#452883

Report No.: EH/2011/80050

Issue Date: Sep. 05, 2011

FCC Rule Part: 2 , 22H & 24E & 27

Prepared for: Hewlett Packard
11445 Compaq Center Dr W, Houston, Texas
77070, United States

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.

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CERTIFICATION OF COMPLIANCE

Applicant: Hewlett Packard
 11445 Compaq Center Dr W, Houston, Texas 77070, United States

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Trade Name: N/A

FCC ID: B94HNI06C

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Model Difference of Host: N/A

Model No. for WWAN Modular: MC8355

File Number: EH/2011/80050

Date of test: Aug. 23, 2011 ~ Sep. 03, 2011

Date of EUT Received: Aug. 23, 2011

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: Nick Lin **Date:** Sep. 05, 2011

Nick Lin / Engineer

Prepared By: Tiffany Kao **Date:** Sep. 05, 2011

Tiffany Kao / Clerk

Approved By: Jim Chang **Date:** Sep. 05, 2011

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Sep. 05, 2011	Initial creation of document

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1. GENERAL INFORMATION

1.1 Product Description

General:

Host Name:	AKASHI 2.0	
Brand Name:	N/A	
Model No.:	HSTNN-I06C	
Model Difference of Host:	N/A	
Model No. for WWAN Module:	MC8355	
Power Supply:	7.4Vdc Li-ion battery or 19Vdc from AC/DC adapter	
	Battery:	Model No.: HSTNN-OB1J, Supplier: hp
	Adapter :	Model: HSTNN-HA21, supplier: hp

GPRS / WCDMA / CDMA 2000:

Cellular Phone Standards Frequency Range:	GSM / GPRS 850, Class 10	824.2 MHz– 848.8 MHz	33 dBm
	EDGE 850, Class 10	824.2 MHz– 848.8 MHz	27 dBm
	GSM / GPRS 1900, Class 10	1850.2MHz – 1909.8MHz	30 dBm
	EDGE 1900, Class 10	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band IV	1712.4 MHz – 1752.6 MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz - 846.6MHz	24 dBm
	CDMA 2000 Cellular / EVDO Cellular	824.7MHz – 848.31MHz	24 dBm
	CDMA 2000 PCS / EVDO PCS	1851.25MHz– 1908.75MHz	24 dBm
IMEI:	98005200005506600		
Hardware Version:	1.0		
Software Version:	1580		

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WWAN module FCC ID:	B94HNI06C
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the WWAN module in this specific host.
Type of Emission:	22H(GMSK): 824.2 - 848.8 MHz: 248KGXW 24E(GMSK): 1850.2 – 1909.8 MHz: 250KGXW 22H(8PSK): 824.2 - 848.8 MHz: 248KG7W 24E(8PSK): 1850.2 – 1909.8 MHz: 245KG7W 22H(WCDMA): 826.4 - 846.6 MHz: 4M19F9W 24E(HSUPA): 1852.4 – 1907.5 MHz: 4M19F9W 22H(CDMA2000): 824.7 – 848.31 MHz: 1M28F9W 24E(CDMA2000): 1851.25 – 1908.75 MHz: 1M28F9W 27E(WCDMA): 1712.4 – 1752.6 MHz: 4M15F9W
Transmit power (Conducted Power) Listed in Test Report/Original Grant:	22H(GMSK): 824.2 - 848.8 MHz: 2.01W/33.04dBm 24E(GMSK): 1850.2 – 1909.8 MHz: 1.199W/30.79dBm 22H(8PSK): 824.2 - 848.8 MHz: 0.531W/27.25dBm 24E(8PSK): 1850.2 – 1909.8 MHz: 0.537W/27.30dBm 22H(WCDMA): 826.4 - 846.6 MHz: 0.281W/24.48dBm 24E(HSUPA): 1852.4 – 1907.5 MHz: 0.294W/24.68dBm 22H(CDMA2000): 824.7 – 848.31 MHz: 0.29 W/24.62dBm 24E(CDMA2000): 1851.25 – 1908.75 MHz: 0.287W/24.57dBm 27E(WCDMA): 1712.4 – 1752.6 MHz: 0.287W/24.58dBm

This test report applies for GPRS/EDGE 850/1900, CDMA 2000, EVDO and WCDMA/HSUPA/HSDPA Bands II, Band IV, Band V.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: B94HNI06C** filing to comply with Section Part 22 subpart H, Part 24 subpart E, Part 27 of the FCC CFR 47 Rules.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of TIA/EIA 603C and FCC 47 CFR 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

1.4 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).

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 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 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.

2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m 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 8 and 13 of ANSI C63.4:2003.

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2.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/23/2010	09/22/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	03/31/2011	03/30/2012
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/31/2011	03/30/2012
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2010	11/27/2011

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	US41160416	01/25/2011	01/24/2012
Radio Communication Analyzer	R&S	CMU200	102189	08/12/2010	08/11/2012
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2011	01/04/2012
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2011	01/04/2012
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	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S20W5	001	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S10W5	001	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	01/05/2011	01/04/2012
Splitter	Agilent	11636B	N/A	01/05/2011	01/04/2012
DC Power Supply	Chroma	41901	777188	04/15/2010	04/14/2012
Power Meter	Anritsu	ML2495A	1005007	02/17/2010	02/16/2012

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/19/2009	11/18/2011
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2010	07/16/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2010	07/16/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	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	02/10/2010	02/09/2012
Signal Generator	Agilent	E4438C	MY45093613	07/08/2011	07/07/2013
Pre-Amplifier	Agilent	8447D	1937A02834	01/05/2011	01/04/2012
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S20W5	001	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S10W5	001	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	01/05/2011	01/04/2012
Radio Communication Analyzer	R&S	CMU200	111787	12/07/2011	12/06/2013
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	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2011	01/04/2012
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011

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2.5 Configuration of Tested System

Fig. 1-1 Configuration for Radiated Emission

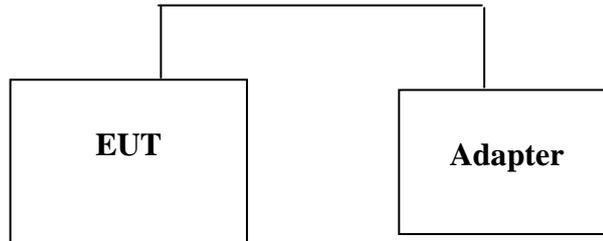


Fig. 1-2 Configuration (Remote Side, on the corner)

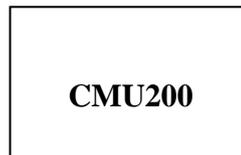


Table 2-1 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(d)(2)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(g)	Field Strength of Spurious Radiation (TX)(RX)	Compliant

Max ERP/EIRP measurement result:

	dBm	dB	W
GPRS 850 Band	30.35	ERP	1.084
PCS 1900 Band	25.67	EIRP	0.369
EDGE 850 Band	29.14	ERP	0.820
EDGE 1900 Band	27.12	EIRP	0.515
WCDMA Band II	21.84	EIRP	0.153
WCDMA Band IV	23.34	EIRP	0.216
WCDMA Band V	23.03	ERP	0.201
HSDPA Band II	26.92	EIRP	0.492
HSDPA Band IV	24.18	EIRP	0.262
HSDPA Band V	22.21	ERP	0.166
HSUPA Band II	25.08	EIRP	0.322
HSUPA Band IV	22.08	EIRP	0.161
HSUPA Band V	22.58	ERP	0.181
CDMA 2000 Cellular	24.90	ERP	0.309
CDMA 2000 PCS	26.22	EIRP	0.419
CDMA 2000 EVDO	25.58	ERP	0.361
CDMA 2000 EVDO PCS	29.32	EIRP	0.855

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Set EUT power for maximum level for all test mode through base station.

The Channel Low, Mid and High for each type of bands with rated data rate were chosen for above testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE, CDMA2000, CDMA2000 EVDO and WCDMA/HSDPA/HSUPA Band II, IV, V with power adaptor. The worst-case of E2 position for GPRS 850 band, EDGE 1900, HSDPA Band II and HSUPA Band IV, WCDMA Band V, EVDO 2000 Cellular band and EVDO 2000 PCS band were reported.

5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SUPIOUS RADIATION

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: 3.37dB
	180MHz -417MHz: 3.19dB
	0.417GHz-1GHz: 3.19dB
	1GHz - 18GHz: 4.04dB
	18GHz - 40GHz: 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: 4.22dB
	167MHz -500MHz: 3.44dB
	0.5GHz-1GHz: 3.39dB
	1GHz - 18GHz: 4.08dB
	18GHz - 40GHz: 4.08dB

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6. RF POWER OUTPUT MEASUREMENT

6.1 Standard Applicable:

According to FCC §2.1046.

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

FCC 24.232(C) Peak Power Measurement to 2W.

FCC 24.232(c) Peak Power Measurement

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

Sub-test in table C.10.1.4	Power Class 3		Power Class 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

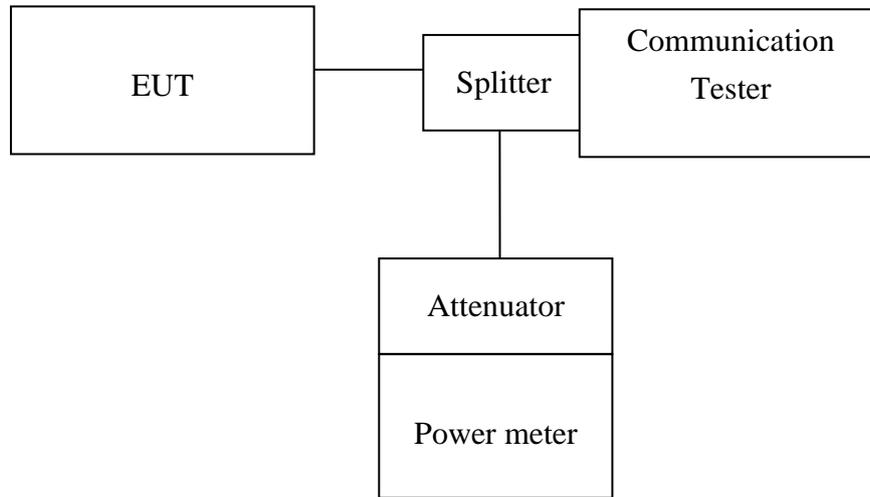
Sub-test in table C.11.1.3	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-6.7	+21	+2.7/-5.7
2	+22	+3.7/-5.2	+19	+4.7/-4.2
3	+23	+2.7/-5.2	+20	+3.7/-4.2
4	+22	+3.7/-5.2	+19	+4.7/-4.2
5	+24	+1.7/-6.7	+21	+2.7/-5.7

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6.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

6.3 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

6.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5 Measurement Result:

6.5.1 RF Conducted Output Power

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

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)
GPRS 850 (Class 10)	824.2	128	31.70	31.70
	836.6	190	31.70	31.60
	848.8	251	32.00	31.90

EUT Mode	Frequency (MHz)	CH	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)
GPRS 850 (Class 10)	824.2	128	31.60	31.50
	836.6	190	31.50	31.40
	848.8	251	31.80	31.70

EUT Mode	Frequency (MHz)	CH	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)
GPRS 1900 (Class 10)	1850.2	512	30.30	30.30
	1880.0	661	30.40	30.30
	1909.8	810	30.50	30.60

EUT Mode	Frequency (MHz)	CH	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)
GPRS 1900 (Class 10)	1850.2	512	30.10	30.10
	1880.0	661	30.20	30.20
	1909.8	810	30.40	30.40

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EUT Mode	Frequency (MHz)	CH	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)
EDGE 850 (Class 10)	824.2	128	27.20	27.00
	836.6	190	27.10	26.90
	848.8	251	27.20	27.10

EUT Mode	Frequency (MHz)	CH	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)
EDGE 850 (Class 10)	824.2	128	27.10	26.90
	836.6	190	27.00	26.80
	848.8	251	27.10	27.00

EUT Mode	Frequency (MHz)	CH	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)
EDGE 1900 (Class 10)	1850.2	512	26.20	26.20
	1880.0	661	27.10	27.10
	1909.8	810	27.30	27.30

EUT Mode	Frequency (MHz)	CH	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)
EDGE 1900 (Class 10)	1850.2	512	26.10	26.00
	1880.0	661	27.00	26.00
	1909.8	810	27.20	25.90

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6.5.1.2: 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/-3). RMC 12.2kps is used for this testing.

Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band II	1852.4	9262	27.71	23.45
	1880.0	9400	27.56	23.60
	1907.6	9538	26.92	23.10

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band IV	1712.4	1312	27.36	23.75
	1732.6	1413	27.34	23.65
	1752.6	1513	27.42	23.70

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band V	826.40	4132	27.48	23.05
	836.60	4183	27.56	23.00
	846.60	4233	27.58	23.10

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

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6.5.1.3.: CDMA 2000 mode

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 Cellular	824.70	1013	24.40	23.70
	836.52	384	24.45	23.84
	848.31	777	24.50	23.90

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 PCS	1851.25	25	24.54	23.50
	1880.00	600	24.40	23.43
	1908.75	1175	24.50	23.90

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 EVDO Cellular	824.70	1013	24.35	23.65
	836.52	384	24.38	23.80
	848.31	777	24.45	23.68

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 EVDO PCS	1851.25	25	24.45	23.45
	1880.00	600	24.35	23.39
	1908.75	1175	24.43	23.79

offset: 0.5dB(for 800MHz)

offset: 0.5dB(for 1900MHz)

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6.5.1.4: 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	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, 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.

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Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA B2	1	23.62	23.49	22.96	20.3dBm – 25.7dBm	Pass
	2	23.33	23.46	22.95	20.3dBm – 25.7dBm	Pass
	3	23.14	23.04	22.43	19.8dBm – 25.7dBm	Pass
	4	23.21	23.05	22.55	19.8dBm – 25.7dBm	Pass

Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.46	23.75	23.54	20.3dBm – 25.7dBm	Pass
	2	23.63	23.51	23.55	20.3dBm – 25.7dBm	Pass
	3	22.98	23.30	23.01	19.8dBm – 25.7dBm	Pass
	4	23.05	23.31	23.13	19.8dBm – 25.7dBm	Pass

Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4172	4233		
HSDPA B5	1	22.84	22.86	23.22	20.3dBm – 25.7dBm	Pass
	2	22.98	22.89	22.97	20.3dBm – 25.7dBm	Pass
	3	22.38	22.38	22.73	19.8dBm – 25.7dBm	Pass
	4	22.43	22.42	22.79	19.8dBm – 25.7dBm	Pass

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6.5.1.5: 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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{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	209/225	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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	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

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

Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSUPA B2	1	23.37	23.58	23.04	17.3dBm – 25.7dBm	Pass
	2	21.42	21.65	21.08	16.8dBm – 25.7dBm	Pass
	3	22.43	22.60	22.12	17.8dBm – 25.7dBm	Pass
	4	21.55	21.70	21.12	16.8dBm – 25.7dBm	Pass
	5	23.26	23.44	22.95	17.3dBm – 25.7dBm	Pass

Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSUPA (B4)	1	23.67	23.63	23.64	18.8dBm – 25.7dBm	Pass
	2	21.72	21.70	21.68	16.8dBm – 25.7dBm	Pass
	3	22.73	22.65	22.72	17.8dBm – 25.7dBm	Pass
	4	21.85	21.75	21.72	16.8dBm – 25.7dBm	Pass
	5	23.56	23.49	23.55	18.8dBm – 25.7dBm	Pass

Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4172	4233		
HSUPA B5	1	23.01	22.93	23.02	17.3dBm – 25.7dBm	Pass
	2	21.07	21.01	21.06	16.8dBm – 25.7dBm	Pass
	3	22.05	21.99	22.10	17.8dBm – 25.7dBm	Pass
	4	21.12	21.07	21.14	16.8dBm – 25.7dBm	Pass
	5	22.87	22.76	22.91	17.3dBm – 25.7dBm	Pass

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6.5.2 Maximum Power Reduction: PCS1900 band

PCL	0	1	2	3	4	5	6	7	8	
Output power (dBm)	30.2	30.2	30.2	30.2	28.1	25.9	23.5	21.6	19.7	
PCL	9	10	11	12	13	14	15	16	17	18
Output power (dBm)	17.9	15.7	13.4	11.7	9.7	7.7	6	3.9	1.9	0.6

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

WCDMA/HSDPA/HSUPA band II / V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 19 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. The power variation can be 0.1dB step by setting.

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7. ERP/EIRP MEASUREMENT

7.1 Standard Applicable

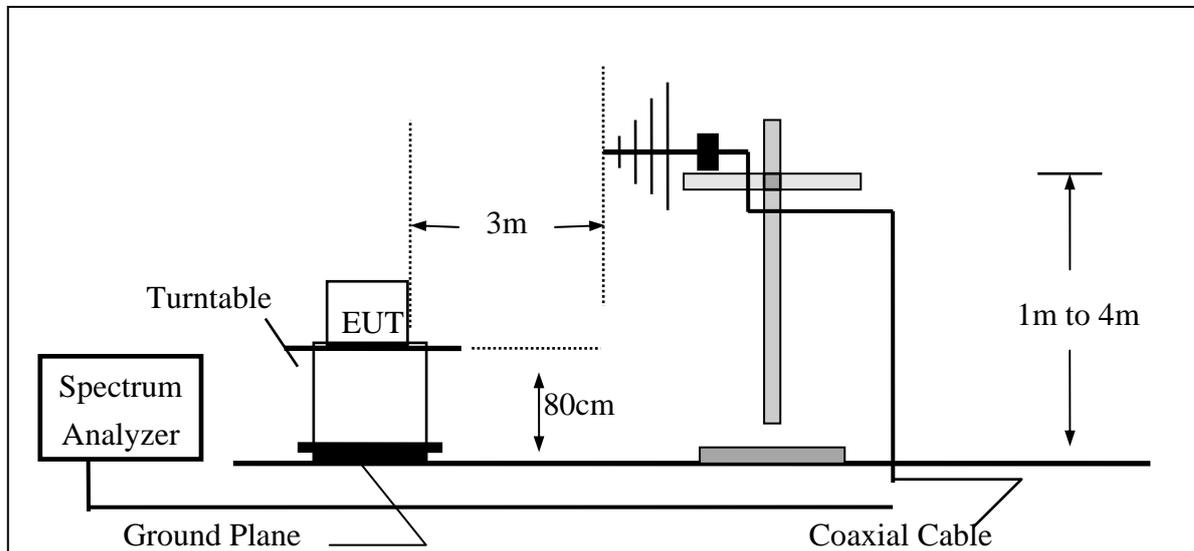
According to FCC §2.1046

FCC 22.913(a)(2) Mobile station are limited to 7W ERP.

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

7.2 Test SET-UP (Block Diagram of Configuration)

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

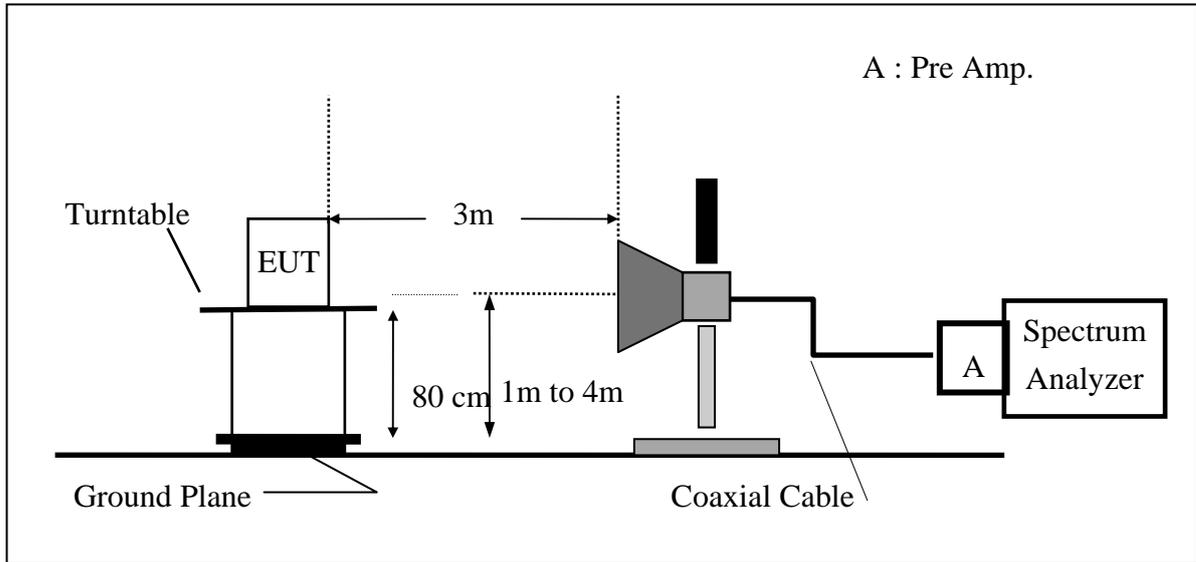


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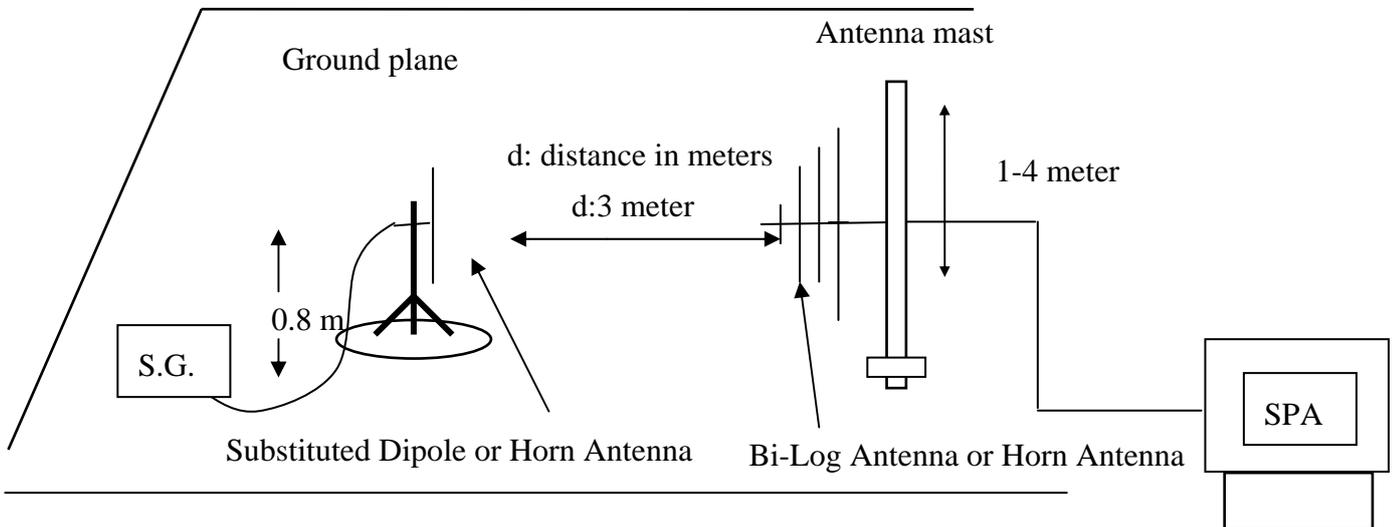
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3 Measurement Procedure

The EUT was placed on a 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 –848.80.8MHz 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 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:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

7.4 Measurement Equipment Used:

Refer to section 2.4 in this report

7.5 Measurement Result

Refer to following pages for detail.

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GPRS 850	824.20	128	H	V	127.23	40.84	-7.87	3.62	29.34	38.45
				H	122.56	36.29	-7.87	3.62	24.79	38.45
			E1	V	124.07	37.68	-7.87	3.62	26.18	38.45
				H	124.43	38.16	-7.87	3.62	26.66	38.45
			E2	V	117.85	31.46	-7.87	3.62	19.96	38.45
				H	128.12	41.85	-7.87	3.62	30.35	38.45
	836.60	190	H	V	126.57	40.32	-7.88	3.65	28.79	38.45
				H	121.55	35.32	-7.88	3.65	23.79	38.45
			E1	V	122.89	36.64	-7.88	3.65	25.11	38.45
				H	123.67	37.44	-7.88	3.65	25.91	38.45
			E2	V	115.83	29.58	-7.88	3.65	18.05	38.45
				H	127.75	41.52	-7.88	3.65	29.99	38.45
	848.80	251	H	V	126.42	40.30	-7.88	3.68	28.74	38.45
				H	120.80	34.61	-7.88	3.68	23.05	38.45
			E1	V	121.65	35.53	-7.88	3.68	23.97	38.45
				H	123.59	37.40	-7.88	3.68	25.84	38.45
			E2	V	114.80	28.68	-7.88	3.68	17.12	38.45
				H	127.34	41.15	-7.88	3.68	29.59	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)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
GPRS 1900	1850.20	512	H	V	121.39	17.00	9.90	5.56	21.34	33.00
				H	116.88	12.70	9.90	5.56	17.04	33.00
			E1	V	119.62	15.23	9.90	5.56	19.57	33.00
				H	122.12	17.94	9.90	5.56	22.28	33.00
			E2	V	116.50	12.11	9.90	5.56	16.45	33.00
				H	123.92	19.74	9.90	5.84	23.80	33.00
	1880.00	661	H	V	122.42	18.06	9.99	5.61	22.44	33.00
				H	117.80	13.66	9.99	5.61	18.03	33.00
			E1	V	120.14	15.78	9.99	5.61	20.16	33.00
				H	122.94	18.80	9.99	5.61	23.17	33.00
			E2	V	118.11	13.75	9.99	5.61	18.13	33.00
				H	125.24	21.10	9.99	5.61	25.47	33.00
	1909.80	810	H	V	123.40	19.07	10.08	5.66	23.49	33.00
				H	118.53	14.42	10.08	5.66	18.84	33.00
			E1	V	121.39	17.06	10.08	5.66	21.48	33.00
				H	122.60	18.49	10.08	5.66	22.91	33.00
			E2	V	119.14	14.81	10.08	5.66	19.23	33.00
				H	125.36	21.25	10.08	5.66	25.67	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
RBW=300MHz, VBW=1MHz

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	125.54	39.15	-7.87	3.62	27.65	38.45
				H	121.07	34.80	-7.87	3.62	23.30	38.45
			E1	V	122.55	36.16	-7.87	3.62	24.66	38.45
				H	122.07	35.80	-7.87	3.62	24.30	38.45
			E2	V	116.34	29.95	-7.87	3.62	18.45	38.45
				H	126.91	40.64	-7.87	3.62	29.14	38.45
	836.60	190	H	V	125.43	39.18	-7.88	3.65	27.65	38.45
				H	120.41	34.18	-7.88	3.65	22.65	38.45
			E1	V	121.61	35.36	-7.88	3.65	23.83	38.45
				H	122.02	35.79	-7.88	3.65	24.26	38.45
			E2	V	114.63	28.38	-7.88	3.65	16.85	38.45
				H	126.74	40.51	-7.88	3.65	28.98	38.45
	848.80	251	H	V	124.91	38.79	-7.88	3.68	27.23	38.45
				H	119.19	33.00	-7.88	3.68	21.44	38.45
			E1	V	118.74	32.62	-7.88	3.68	21.06	38.45
				H	121.70	35.51	-7.88	3.68	23.95	38.45
			E2	V	113.29	27.17	-7.88	3.68	15.61	38.45
				H	124.17	37.98	-7.88	3.68	26.42	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)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	H	V	121.97	17.58	9.90	5.56	21.92	33.00
				H	116.13	11.95	9.90	5.56	16.29	33.00
			E1	V	120.33	15.94	9.90	5.56	20.28	33.00
				H	123.41	19.23	9.90	5.56	23.57	33.00
			E2	V	114.65	10.26	9.90	5.56	14.60	33.00
				H	123.86	19.68	9.90	5.84	23.74	33.00
	1880.00	661	H	V	122.77	18.41	9.99	5.61	22.79	33.00
				H	118.37	14.23	9.99	5.61	18.60	33.00
			E1	V	120.71	16.35	9.99	5.61	20.73	33.00
				H	123.45	19.31	9.99	5.61	23.68	33.00
			E2	V	115.96	11.60	9.99	5.61	15.98	33.00
				H	125.97	21.83	9.99	5.61	26.20	33.00
	1909.80	810	H	V	123.92	19.59	10.08	5.66	24.01	33.00
				H	118.96	14.85	10.08	5.66	19.27	33.00
			E1	V	121.65	17.32	10.08	5.66	21.74	33.00
				H	123.64	19.53	10.08	5.66	23.95	33.00
			E2	V	117.28	12.95	10.08	5.66	17.37	33.00
				H	126.81	22.70	10.08	5.66	27.12	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
RBW=300 KHz, VBW=1MHz

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SGS Taiwan Ltd. | No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五工路 134 號

Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA Band II	1852.40	9262	H	V	116.42	12.04	9.90	5.56	16.37	33.00
				H	108.88	4.70	9.90	5.56	9.04	33.00
			E1	V	118.22	13.84	9.90	5.56	18.17	33.00
				H	121.32	17.14	9.90	5.56	21.48	33.00
			E2	V	113.34	8.96	9.90	5.56	13.29	33.00
				H	121.62	17.44	9.90	5.84	21.50	33.00
	1880.00	9400	H	V	119.99	15.63	9.99	5.61	20.01	33.00
				H	115.09	10.95	9.99	5.61	15.32	33.00
			E1	V	117.98	13.59	9.90	5.56	17.93	33.00
				H	120.28	16.14	9.99	5.61	20.51	33.00
			E2	V	111.60	7.24	9.99	5.61	11.62	33.00
				H	121.61	17.47	9.99	5.61	21.84	33.00
	1907.60	9538	H	V	119.77	15.44	10.07	5.66	19.85	33.00
				H	114.96	10.85	10.07	5.66	15.26	33.00
			E1	V	117.76	13.43	10.07	5.66	17.84	33.00
				H	120.03	15.92	10.07	5.66	20.33	33.00
			E2	V	112.45	8.12	10.07	5.66	12.53	33.00
				H	121.49	17.38	10.07	5.66	21.79	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)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA Band IV	1712.40	1312	H	V	121.02	14.00	9.48	5.17	18.32	33.00
				H	115.77	8.80	9.48	5.17	13.11	33.00
			E1	V	118.29	11.27	9.48	5.17	15.59	33.00
				H	122.31	15.34	9.48	5.17	19.65	33.00
			E2	V	119.80	12.78	9.48	5.17	17.10	33.00
				H	125.94	18.97	9.90	5.84	23.03	33.00
	1732.60	1413	H	V	121.72	14.71	9.54	5.20	19.05	33.00
				H	116.43	9.47	9.54	5.20	13.81	33.00
			E1	V	118.56	11.55	9.54	5.20	15.89	33.00
				H	123.26	16.30	9.54	5.20	20.64	33.00
			E2	V	120.90	13.89	9.54	5.20	18.23	33.00
				H	125.96	19.00	9.54	5.20	23.34	33.00
	1752.60	1513	H	V	121.40	14.40	9.60	5.24	18.77	33.00
				H	116.30	9.35	9.60	5.24	13.72	33.00
			E1	V	117.86	10.86	9.60	5.24	15.23	33.00
				H	122.54	15.59	9.60	5.24	19.96	33.00
			E2	V	120.70	13.70	9.60	5.24	18.07	33.00
				H	125.60	18.65	9.60	5.24	23.02	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)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
WCDMA Band V	826.40	4132	H	V	117.91	31.55	-10.02	3.63	17.90	38.45
				H	118.43	32.17	-10.02	3.63	18.53	38.45
			E1	V	114.96	28.60	-10.02	3.63	14.95	38.45
				H	116.99	30.73	-10.02	3.63	17.09	38.45
			E2	V	112.64	26.28	-10.02	3.63	12.63	38.45
				H	121.77	35.51	-10.02	3.63	21.87	38.45
	836.60	4183	H	V	118.84	32.58	-10.02	3.65	18.91	38.45
				H	118.99	32.76	-10.02	3.65	19.09	38.45
			E1	V	115.44	29.18	-10.02	3.65	15.51	38.45
				H	118.53	32.30	-10.02	3.65	18.63	38.45
			E2	V	111.91	25.65	-10.02	3.65	11.98	38.45
				H	122.93	36.70	-10.02	3.65	23.03	38.45
	846.60	4233	H	V	119.07	32.92	-10.02	3.67	19.23	38.45
				H	119.33	33.13	-10.02	3.67	19.44	38.45
			E1	V	116.74	30.58	-10.02	3.67	16.89	38.45
				H	118.98	32.78	-10.02	3.67	19.09	38.45
			E2	V	112.00	25.85	-10.02	3.67	12.16	38.45
				H	122.06	35.86	-10.02	3.67	22.17	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSDPA Band II	1852.40	9262	H	V	121.53	17.15	9.90	5.56	21.48	33.00
				H	117.35	13.17	9.90	5.56	17.51	33.00
			E1	V	119.15	14.77	9.90	5.56	19.10	33.00
				H	122.60	18.42	9.90	5.56	22.76	33.00
			E2	V	120.70	16.32	9.90	5.56	20.65	33.00
				H	126.22	22.04	9.90	5.84	26.10	33.00
	1880.00	9400	H	V	120.71	16.35	9.99	5.61	20.73	33.00
				H	117.01	12.87	9.99	5.61	17.24	33.00
			E1	V	119.03	14.64	9.90	5.56	18.98	33.00
				H	121.82	17.68	9.99	5.61	22.05	33.00
			E2	V	120.61	16.25	9.99	5.61	20.63	33.00
				H	126.69	22.55	9.99	5.61	26.92	33.00
	1907.60	9538	H	V	119.74	15.41	10.07	5.66	19.82	33.00
				H	116.81	12.70	10.07	5.66	17.11	33.00
			E1	V	118.54	14.21	10.07	5.66	18.62	33.00
				H	120.61	16.50	10.07	5.66	20.91	33.00
			E2	V	120.03	15.70	10.07	5.66	20.11	33.00
				H	125.83	21.72	10.07	5.66	26.13	33.00

Remark :

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSDPA Band IV	1712.40	1312	H	V	121.68	14.66	9.48	5.17	18.98	33.00
				H	117.27	10.30	9.48	5.17	14.61	33.00
			E1	V	117.82	10.80	9.48	5.17	15.12	33.00
				H	122.54	15.57	9.48	5.17	19.88	33.00
			E2	V	119.98	12.96	9.48	5.17	17.28	33.00
				H	126.35	19.38	9.90	5.84	23.44	33.00
	1732.60	1413	H	V	122.29	15.28	9.54	5.20	19.62	33.00
				H	117.85	10.89	9.54	5.20	15.23	33.00
			E1	V	118.74	11.73	9.54	5.20	16.07	33.00
				H	123.47	16.51	9.54	5.20	20.85	33.00
			E2	V	121.81	14.80	9.54	5.20	19.14	33.00
				H	126.80	19.84	9.54	5.20	24.18	33.00
	1752.60	1513	H	V	122.42	15.42	9.60	5.24	19.79	33.00
				H	117.75	10.80	9.60	5.24	15.17	33.00
			E1	V	118.80	11.80	9.60	5.24	16.17	33.00
				H	123.41	16.46	9.60	5.24	20.83	33.00
			E2	V	121.35	14.35	9.60	5.24	18.72	33.00
				H	126.52	19.57	9.60	5.24	23.94	33.00

Remark :

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSDPA Band V	826.40	4132	H	V	118.61	32.25	-10.02	3.63	18.60	38.45
				H	118.09	31.83	-10.02	3.63	18.19	38.45
			E1	V	115.84	29.48	-10.02	3.63	15.83	38.45
				H	118.08	31.82	-10.02	3.63	18.18	38.45
			E2	V	113.82	27.46	-10.02	3.63	13.81	38.45
				H	121.14	34.88	-10.02	3.63	21.24	38.45
	836.60	4183	H	V	119.38	33.12	-10.02	3.65	19.45	38.45
				H	118.88	32.65	-10.02	3.65	18.98	38.45
			E1	V	116.46	30.20	-10.02	3.65	16.53	38.45
				H	119.26	33.03	-10.02	3.65	19.36	38.45
			E2	V	116.03	29.77	-10.02	3.65	16.10	38.45
				H	122.11	35.88	-10.02	3.65	22.21	38.45
	846.60	4233	H	V	119.76	33.61	-10.02	3.67	19.92	38.45
				H	119.65	33.45	-10.02	3.67	19.76	38.45
			E1	V	116.26	30.10	-10.02	3.67	16.41	38.45
				H	119.24	33.04	-10.02	3.67	19.35	38.45
			E2	V	115.96	29.81	-10.02	3.67	16.12	38.45
				H	121.67	35.47	-10.02	3.67	21.78	38.45

Remark :

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSUPA Band II	1852.40	9262	H	V	122.90	18.52	9.90	5.56	22.85	33.00
				H	117.28	13.10	9.90	5.56	17.44	33.00
			E1	V	119.42	15.04	9.90	5.56	19.37	33.00
				H	124.58	20.40	9.90	5.56	24.74	33.00
			E2	V	114.03	9.65	9.90	5.56	13.98	33.00
				H	124.55	20.37	9.90	5.84	24.43	33.00
	1880.00	9400	H	V	121.62	17.26	9.99	5.61	21.64	33.00
				H	116.82	12.68	9.99	5.61	17.05	33.00
			E1	V	118.28	13.89	9.90	5.56	18.23	33.00
				H	123.04	18.90	9.99	5.61	23.27	33.00
			E2	V	112.86	8.50	9.99	5.61	12.88	33.00
				H	124.85	20.71	9.99	5.61	25.08	33.00
	1907.60	9538	H	V	121.25	16.92	10.07	5.66	21.33	33.00
				H	116.44	12.33	10.07	5.66	16.74	33.00
			E1	V	118.40	14.07	10.07	5.66	18.48	33.00
				H	122.39	18.28	10.07	5.66	22.69	33.00
			E2	V	112.40	8.07	10.07	5.66	12.48	33.00
				H	124.37	20.26	10.07	5.66	24.67	33.00

Remark :

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSUPA Band IV	1712.40	1312	H	V	123.64	16.62	9.48	5.17	20.94	33.00
				H	117.46	10.49	9.48	5.17	14.80	33.00
			E1	V	121.00	13.98	9.48	5.17	18.30	33.00
				H	124.26	17.29	9.48	5.17	21.60	33.00
			E2	V	112.41	5.39	9.48	5.17	9.71	33.00
				H	122.95	15.98	9.90	5.84	20.04	33.00
	1732.60	1413	H	V	123.50	16.49	9.54	5.20	20.83	33.00
				H	118.14	11.18	9.54	5.20	15.52	33.00
			E1	V	120.21	13.20	9.54	5.20	17.54	33.00
				H	124.60	17.64	9.54	5.20	21.98	33.00
			E2	V	111.79	4.78	9.54	5.20	9.12	33.00
				H	122.17	15.21	9.54	5.20	19.55	33.00
	1752.60	1513	H	V	123.35	16.35	9.60	5.24	20.72	33.00
				H	118.29	11.34	9.60	5.24	15.71	33.00
			E1	V	120.76	13.76	9.60	5.24	18.13	33.00
				H	124.66	17.71	9.60	5.24	22.08	33.00
			E2	V	111.56	4.56	9.60	5.24	8.93	33.00
				H	122.64	15.69	9.60	5.24	20.06	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)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSUPA Band V	826.40	4132	H	V	118.33	31.97	-10.02	3.63	18.32	38.45
				H	117.77	31.51	-10.02	3.63	17.87	38.45
			E1	V	117.03	30.67	-10.02	3.63	17.02	38.45
				H	116.34	30.08	-10.02	3.63	16.44	38.45
			E2	V	110.90	24.54	-10.02	3.63	10.89	38.45
				H	117.28	31.02	-10.02	3.63	17.38	38.45
	836.60	4183	H	V	119.20	32.94	-10.02	3.65	19.27	38.45
				H	118.76	32.53	-10.02	3.65	18.86	38.45
			E1	V	117.79	31.53	-10.02	3.65	17.86	38.45
				H	117.10	30.87	-10.02	3.65	17.20	38.45
			E2	V	113.25	26.99	-10.02	3.65	13.32	38.45
				H	122.48	36.25	-10.02	3.65	22.58	38.45
	846.60	4233	H	V	119.45	33.30	-10.02	3.67	19.61	38.45
				H	119.68	33.48	-10.02	3.67	19.79	38.45
			E1	V	117.86	31.70	-10.02	3.67	18.01	38.45
				H	117.26	31.06	-10.02	3.67	17.37	38.45
			E2	V	113.82	27.67	-10.02	3.67	13.98	38.45
				H	122.30	36.10	-10.02	3.67	22.41	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
RBW= 5MHz , VBW= 8MHz

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
CDMA 2000 Cellular	824.70	1013	H	V	119.66	33.30	-7.88	3.63	21.79	38.45
				H	120.96	34.70	-7.88	3.63	23.20	38.45
			E1	V	116.67	30.31	-7.88	3.63	18.80	38.45
				H	116.77	30.51	-7.88	3.63	19.01	38.45
			E2	V	116.40	30.04	-7.88	3.63	18.53	38.45
				H	122.45	36.19	-7.88	3.63	24.69	38.45
	836.52	384	H	V	120.54	34.28	-7.88	3.65	22.75	38.45
				H	120.96	34.73	-7.88	3.65	23.20	38.45
			E1	V	117.18	30.92	-7.88	3.65	19.39	38.45
				H	119.03	32.80	-7.88	3.65	21.27	38.45
			E2	V	112.50	26.24	-7.88	3.65	14.71	38.45
				H	122.66	36.43	-7.88	3.65	24.90	38.45
	848.31	777	H	V	120.12	33.97	-7.88	3.67	22.42	38.45
				H	120.99	34.79	-7.88	3.67	23.24	38.45
			E1	V	117.13	30.97	-7.88	3.67	19.42	38.45
				H	120.05	33.85	-7.88	3.67	22.30	38.45
			E2	V	110.05	23.90	-7.88	3.67	12.35	38.45
				H	122.16	35.96	-7.88	3.67	24.41	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency

RBW= 2MHz , VBW= 6MHz

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
CDMA 2000 PCS	1851.25	25	H	V	123.89	19.51	9.90	5.56	23.84	33.00
				H	118.85	14.67	9.90	5.56	19.01	33.00
			E1	V	123.09	18.71	9.90	5.56	23.04	33.00
				H	126.06	21.88	9.90	5.56	26.22	33.00
			E2	V	111.86	7.48	9.90	5.56	11.81	33.00
				H	125.70	21.52	9.90	5.84	25.58	33.00
	1880.00	600	H	V	122.68	18.32	9.99	5.61	22.70	33.00
				H	117.59	13.45	9.99	5.61	17.82	33.00
			E1	V	121.73	17.34	9.90	5.56	21.68	33.00
				H	125.09	20.95	9.99	5.61	25.32	33.00
			E2	V	112.66	8.30	9.99	5.61	12.68	33.00
				H	125.92	21.78	9.99	5.61	26.15	33.00
	1908.75	1175	H	V	122.23	17.90	10.07	5.66	22.31	33.00
				H	117.16	13.05	10.07	5.66	17.46	33.00
			E1	V	121.64	17.31	10.07	5.66	21.72	33.00
				H	124.58	20.47	10.07	5.66	24.88	33.00
			E2	V	112.53	8.20	10.07	5.66	12.61	33.00
				H	125.35	21.24	10.07	5.66	25.65	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency

RBW= 2MHz , VBW= 6MHz

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
CDMA 2000 EVDO Cellular	824.70	1013	H	V	121.66	35.30	-7.88	3.63	23.79	38.45
				H	119.61	33.35	-7.88	3.63	21.85	38.45
			E1	V	119.46	33.10	-7.88	3.63	21.59	38.45
				H	118.38	32.12	-7.88	3.63	20.62	38.45
			E2	V	111.11	24.75	-7.88	3.63	13.24	38.45
				H	123.34	37.08	-7.88	3.63	25.58	38.45
	836.52	384	H	V	122.44	36.18	-7.88	3.65	24.65	38.45
				H	120.59	34.36	-7.88	3.65	22.83	38.45
			E1	V	120.34	34.08	-7.88	3.65	22.55	38.45
				H	119.57	33.34	-7.88	3.65	21.81	38.45
			E2	V	110.98	24.72	-7.88	3.65	13.19	38.45
				H	123.23	37.00	-7.88	3.65	25.47	38.45
	848.31	777	H	V	122.22	36.07	-7.88	3.67	24.52	38.45
				H	120.79	34.59	-7.88	3.67	23.04	38.45
			E1	V	120.24	34.08	-7.88	3.67	22.53	38.45
				H	120.03	33.83	-7.88	3.67	22.28	38.45
			E2	V	110.30	24.15	-7.88	3.67	12.60	38.45
				H	121.61	35.41	-7.88	3.67	23.86	38.45

(1) The RBW,VBW of SPA for frequency

RBW= 2MHz , VBW= 6MHz

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
CDMA 2000 EVDO PCS	1851.25	25	H	V	126.09	21.71	9.90	5.56	26.04	33.00
				H	120.84	16.66	9.90	5.56	21.00	33.00
			E1	V	122.93	18.55	9.90	5.56	22.88	33.00
				H	128.25	24.07	9.90	5.56	28.41	33.00
			E2	V	118.98	14.60	9.90	5.56	18.93	33.00
				H	127.61	23.43	9.90	5.84	27.49	33.00
	1880.00	600	H	V	125.18	20.82	9.99	5.61	25.20	33.00
				H	119.86	15.72	9.99	5.61	20.09	33.00
			E1	V	123.20	18.81	9.90	5.56	23.15	33.00
				H	126.99	22.85	9.99	5.61	27.22	33.00
			E2	V	117.68	13.32	9.99	5.61	17.70	33.00
				H	129.09	24.95	9.99	5.61	29.32	33.00
	1908.75	1175	H	V	124.16	19.83	10.07	5.66	24.24	33.00
				H	119.14	15.03	10.07	5.66	19.44	33.00
			E1	V	123.08	18.75	10.07	5.66	23.16	33.00
				H	125.79	21.68	10.07	5.66	26.09	33.00
			E2	V	117.11	12.78	10.07	5.66	17.19	33.00
				H	128.65	24.54	10.07	5.66	28.95	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency

RBW= 2MHz , VBW= 6MHz

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8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT(TX)

8.1 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)

8.2 EUT Setup (Block Diagram of Configuration)

Refer to section 5.2 for details

8.3 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 were 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.

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$$

8.4 Measurement Equipment Used:

Refer to section 5.4 for details

8.5 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 Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	38.64	V	-61.81	-7.83	1.67	-71.31	-13.00	-58.31
248.25	40.38	V	-59.58	-7.89	1.98	-69.44	-13.00	-56.44
257.95	38.37	V	-61.26	-7.89	2.02	-71.17	-13.00	-58.17
321.00	38.37	V	-59.62	-7.80	2.25	-69.67	-13.00	-56.67
406.36	38.59	V	-56.71	-7.67	2.53	-66.90	-13.00	-53.90
487.84	34.99	V	-59.10	-7.72	2.77	-69.58	-13.00	-56.58
1648.40	---	V		9.29	5.23		-13.00	
2472.60	60.37	V	-40.64	10.08	6.53	-37.09	-13.00	-24.09
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Low Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
173.56	39.31	H	-60.29	-7.82	1.65	-69.75	-13.00	-56.75
212.36	43.68	H	-57.37	-7.85	1.78	-67.00	-13.00	-54.00
257.95	36.23	H	-62.74	-7.89	2.02	-72.66	-13.00	-59.66
364.65	36.54	H	-60.43	-7.65	2.40	-70.48	-13.00	-57.48
400.54	39.72	H	-56.68	-7.66	2.51	-66.85	-13.00	-53.85
500.45	36.13	H	-57.30	-7.72	2.80	-67.83	-13.00	-54.83
1648.40	51.91	H	-52.49	9.29	5.23	-48.43	-13.00	-35.43
2472.60	58.15	H	-42.76	10.08	6.53	-39.21	-13.00	-26.21
3296.80	---	H		12.17	7.71		-13.00	
4121.00	---	H		12.61	8.86		-13.00	
4945.20	---	H		12.65	9.74		-13.00	
5769.40	---	H		13.55	10.54		-13.00	
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 836.60 MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	38.87	V	-61.58	-7.83	1.67	-71.08	-13.00	-58.08
257.95	38.10	V	-61.53	-7.89	2.02	-71.44	-13.00	-58.44
322.94	37.74	V	-60.23	-7.79	2.26	-70.27	-13.00	-57.27
377.26	35.19	V	-61.28	-7.65	2.44	-71.37	-13.00	-58.37
400.54	40.32	V	-55.16	-7.66	2.51	-65.34	-13.00	-52.34
607.15	34.53	V	-54.95	-7.79	3.05	-65.79	-13.00	-52.79
1673.20	---	V		9.36	5.27		-13.00	
2509.80	58.66	V	-42.12	10.09	6.58	-38.62	-13.00	-25.62
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 836.60 MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
173.56	38.61	H	-60.99	-7.82	1.65	-70.45	-13.00	-57.45
206.54	40.33	H	-61.00	-7.85	1.75	-70.60	-13.00	-57.60
255.04	36.07	H	-62.99	-7.89	2.01	-72.89	-13.00	-59.89
348.16	35.86	H	-61.36	-7.65	2.35	-71.36	-13.00	-58.36
400.54	39.83	H	-56.57	-7.66	2.51	-66.74	-13.00	-53.74
551.86	35.10	H	-56.58	-7.76	2.96	-67.31	-13.00	-54.31
1673.20	49.68	H	-54.70	9.36	5.27	-50.60	-13.00	-37.60
2509.80	56.93	H	-43.77	10.09	6.58	-40.27	-13.00	-27.27
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 848.80 MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	38.20	V	-62.25	-7.83	1.67	-71.75	-13.00	-58.75
245.34	42.02	V	-58.05	-7.89	1.96	-67.90	-13.00	-54.90
257.95	37.98	V	-61.65	-7.89	2.02	-71.56	-13.00	-58.56
322.94	38.12	V	-59.85	-7.79	2.26	-69.89	-13.00	-56.89
377.26	35.55	V	-60.92	-7.65	2.44	-71.01	-13.00	-58.01
400.54	39.81	V	-55.67	-7.66	2.51	-65.85	-13.00	-52.85
1697.60	---	V		9.44	5.31		-13.00	
2546.40	58.53	V	-42.11	10.20	6.63	-38.55	-13.00	-25.55
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 848.80 MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
209.45	40.16	H	-61.03	-7.85	1.76	-70.64	-13.00	-57.64
262.80	38.13	H	-60.69	-7.90	2.04	-70.62	-13.00	-57.62
289.96	37.98	H	-59.99	-7.91	2.13	-70.04	-13.00	-57.04
345.25	37.86	H	-59.38	-7.67	2.34	-69.39	-13.00	-56.39
400.54	39.54	H	-56.86	-7.66	2.51	-67.03	-13.00	-54.03
500.45	34.65	H	-58.78	-7.72	2.80	-69.31	-13.00	-56.31
1697.60	---	H		9.44	5.31		-13.00	
2546.40	59.56	H	-41.04	10.20	6.63	-37.48	-13.00	-24.48
3395.20	---	H		12.38	7.87		-13.00	
4244.00	---	H		12.63	9.00		-13.00	
5092.80	---	H		12.74	9.88		-13.00	
5941.60	---	H		13.81	10.70		-13.00	
6790.40	---	H		11.86	11.48		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode	: TX CH Low Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1850.20MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
177.44	38.50	V	-61.25	-7.82	1.66	-70.73	-13.00	-57.73
257.95	38.79	V	-60.84	-7.89	2.02	-70.75	-13.00	-57.75
321.00	39.48	V	-58.51	-7.80	2.25	-68.56	-13.00	-55.56
340.40	36.90	V	-60.85	-7.69	2.32	-70.87	-13.00	-57.87
400.54	36.50	V	-58.98	-7.66	2.51	-69.16	-13.00	-56.16
563.50	33.51	V	-58.19	-7.77	2.98	-68.94	-13.00	-55.94
3700.40	41.23	V	-56.70	12.61	8.31	-52.40	-13.00	-39.40
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Low Mode
 Fundamental Frequency : 1850.20MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
167.74	39.50	H	-59.65	-7.81	1.63	-69.09	-13.00	-56.09
212.36	43.64	H	-57.41	-7.85	1.78	-67.04	-13.00	-54.04
257.95	36.34	H	-62.63	-7.89	2.02	-72.55	-13.00	-59.55
348.16	39.39	H	-57.83	-7.65	2.35	-67.83	-13.00	-54.83
400.54	40.41	H	-55.99	-7.66	2.51	-66.16	-13.00	-53.16
497.54	35.38	H	-58.09	-7.72	2.79	-68.60	-13.00	-55.60
3700.40	41.89	H	-56.15	12.61	8.31	-51.85	-13.00	-38.85
5550.60	---	H		13.23	10.33		-13.00	
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
187.14	38.62	V	-62.01	-7.83	1.68	-71.51	-13.00	-58.51
257.95	37.86	V	-61.77	-7.89	2.02	-71.68	-13.00	-58.68
322.94	39.73	V	-58.24	-7.79	2.26	-68.28	-13.00	-55.28
374.35	36.65	V	-59.94	-7.65	2.43	-70.03	-13.00	-57.03
400.54	37.71	V	-57.77	-7.66	2.51	-67.95	-13.00	-54.95
497.54	35.81	V	-58.32	-7.72	2.79	-68.83	-13.00	-55.83
3760.00	41.43	V	-56.23	12.60	8.39	-52.01	-13.00	-39.01
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
212.36	44.00	H	-57.05	-7.85	1.78	-66.68	-13.00	-53.68
260.86	36.61	H	-62.27	-7.90	2.03	-72.20	-13.00	-59.20
291.90	35.41	H	-62.50	-7.92	2.14	-72.56	-13.00	-59.56
342.34	39.52	H	-57.75	-7.68	2.33	-67.76	-13.00	-54.76
400.54	43.14	H	-53.26	-7.66	2.51	-63.43	-13.00	-50.43
497.54	35.93	H	-57.54	-7.72	2.79	-68.05	-13.00	-55.05
3760.00	---	H		12.60	8.39		-13.00	
5640.00	42.23	H	-48.52	13.36	10.41	-45.57	-13.00	-32.57
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH High Mode
 Fundamental Frequency : 1909.8 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	39.31	V	-61.14	-7.83	1.67	-70.64	-13.00	-57.64
257.95	38.62	V	-61.01	-7.89	2.02	-70.92	-13.00	-57.92
322.94	39.32	V	-58.65	-7.79	2.26	-68.69	-13.00	-55.69
345.25	35.88	V	-61.81	-7.67	2.34	-71.82	-13.00	-58.82
374.35	36.21	V	-60.38	-7.65	2.43	-70.47	-13.00	-57.47
400.54	40.52	V	-54.96	-7.66	2.51	-65.14	-13.00	-52.14
3819.60	41.71	V	-55.68	12.60	8.47	-51.55	-13.00	-38.55
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1909.8 MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
199.75	42.67	H	-58.96	-7.84	1.71	-68.51	-13.00	-55.51
224.00	42.31	H	-58.17	-7.86	1.84	-67.88	-13.00	-54.88
303.54	36.77	H	-60.86	-7.90	2.18	-70.94	-13.00	-57.94
348.16	40.47	H	-56.75	-7.65	2.35	-66.75	-13.00	-53.75
400.54	43.96	H	-52.44	-7.66	2.51	-62.61	-13.00	-49.61
495.60	36.75	H	-56.74	-7.72	2.79	-67.24	-13.00	-54.24
3819.60	---	H		12.60	8.47		-13.00	
5729.40	43.76	H	-46.69	13.49	10.50	-43.70	-13.00	-30.70
7639.20	---	H		11.40	12.27		-13.00	
9549.00	---	H		11.95	13.74		-13.00	
11458.80	---	H		12.17	15.43		-13.00	
13368.60	---	H		12.97	16.82		-13.00	
15278.40	---	H		15.00	18.29		-13.00	
17188.20	---	H		14.47	19.52		-13.00	
19098.00	---	H		18.66	20.78		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Mode	: TX CH Low Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1852.4MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
187.24	37.96	V	-62.67	-7.83	1.68	-72.18	-13.00	-59.18
257.95	37.12	V	-62.51	-7.89	2.02	-72.42	-13.00	-59.42
322.94	40.01	V	-57.96	-7.79	2.26	-68.00	-13.00	-55.00
400.54	40.93	V	-54.55	-7.66	2.51	-64.73	-13.00	-51.73
553.80	33.77	V	-58.50	-7.76	2.97	-69.23	-13.00	-56.23
798.24	40.15	V	-46.52	-7.87	3.57	-57.95	-13.00	-44.95
3704.80	---	V		12.61	8.31		-13.00	
5557.20	46.24	V	-44.58	13.24	10.33	-41.68	-13.00	-28.68
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Mode : TX CH Low Mode
 Fundamental Frequency : 1852.4MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
209.45	41.94	H	-59.25	-7.85	1.76	-68.86	-13.00	-55.86
264.74	38.81	H	-59.95	-7.90	2.04	-69.89	-13.00	-56.89
350.10	37.86	H	-59.34	-7.64	2.36	-69.34	-13.00	-56.34
400.54	40.66	H	-55.74	-7.66	2.51	-65.91	-13.00	-52.91
500.45	36.32	H	-57.11	-7.72	2.80	-67.64	-13.00	-54.64
804.06	33.76	H	-52.57	-7.87	3.58	-64.02	-13.00	-51.02
3704.80	47.58	H	-50.44	12.61	8.31	-46.15	-13.00	-33.15
5557.20	43.19	H	-47.84	13.24	10.33	-44.94	-13.00	-31.94
7409.60	---	H		11.49	12.09		-13.00	
9262.00	---	H		11.92	13.51		-13.00	
11114.40	---	H		11.68	15.12		-13.00	
12966.80	---	H		13.62	16.61		-13.00	
14819.20	---	H		12.83	17.96		-13.00	
16671.60	---	H		15.87	19.15		-13.00	
18524.00	---	H		18.74	10.86		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
187.14	38.25	V	-62.38	-7.83	1.68	-71.88	-13.00	-58.88
257.95	36.04	V	-63.59	-7.89	2.02	-73.50	-13.00	-60.50
321.00	38.99	V	-59.00	-7.80	2.25	-69.05	-13.00	-56.05
400.54	37.29	V	-58.19	-7.66	2.51	-68.37	-13.00	-55.37
503.36	34.59	V	-59.44	-7.72	2.81	-69.97	-13.00	-56.97
804.06	39.03	V	-47.58	-7.87	3.58	-59.03	-13.00	-46.03
3760.00	---	V		12.60	8.39		-13.00	
5640.00	45.27	V	-45.31	13.36	10.41	-42.36	-13.00	-29.36
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
165.80	36.37	H	-62.63	-7.81	1.63	-72.07	-13.00	-59.07
212.36	40.02	H	-61.03	-7.85	1.78	-70.66	-13.00	-57.66
260.86	37.29	H	-61.59	-7.90	2.03	-71.52	-13.00	-58.52
345.25	37.62	H	-59.62	-7.67	2.34	-69.63	-13.00	-56.63
400.54	38.69	H	-57.71	-7.66	2.51	-67.88	-13.00	-54.88
497.54	34.87	H	-58.60	-7.72	2.79	-69.11	-13.00	-56.11
3760.00	42.73	H	-55.04	12.60	8.39	-50.83	-13.00	-37.83
5640.00	---	H		13.36	10.41		-13.00	
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1907.6MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	38.10	V	-62.35	-7.83	1.67	-71.85	-13.00	-58.85
257.95	37.35	V	-62.28	-7.89	2.02	-72.19	-13.00	-59.19
322.94	40.02	V	-57.95	-7.79	2.26	-67.99	-13.00	-54.99
400.54	37.89	V	-57.59	-7.66	2.51	-67.77	-13.00	-54.77
655.65	33.76	V	-55.22	-7.82	3.17	-66.21	-13.00	-53.21
798.24	38.45	V	-48.22	-7.87	3.57	-59.65	-13.00	-46.65
3815.20	41.53	V	-55.88	12.60	8.46	-51.74	-13.00	-38.74
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Mode : TX CH High Mode
 Fundamental Frequency : 1907.6MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
206.54	40.72	H	-60.61	-7.85	1.75	-70.21	-13.00	-57.21
260.86	37.02	H	-61.86	-7.90	2.03	-71.79	-13.00	-58.79
348.16	35.60	H	-61.62	-7.65	2.35	-71.62	-13.00	-58.62
400.54	40.01	H	-56.39	-7.66	2.51	-66.56	-13.00	-53.56
487.84	35.75	H	-57.81	-7.72	2.77	-68.29	-13.00	-55.29
798.24	34.74	H	-51.97	-7.87	3.57	-63.41	-13.00	-50.41
3815.20	47.11	H	-50.42	12.60	8.46	-46.28	-13.00	-33.28
5722.80	---	H		13.48	10.49		-13.00	
7630.40	---	H		11.41	12.27		-13.00	
9538.00	---	H		11.95	13.73		-13.00	
11445.60	---	H		12.15	15.42		-13.00	
13353.20	---	H		13.00	16.81		-13.00	
15260.80	---	H		14.91	18.28		-13.00	
17168.40	---	H		14.53	19.50		-13.00	
19076.00	---	H		18.65	20.76		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Mode	: TX CH Low Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1712.40 MHz	Test By:	Nick
Temperature	: 27°C	Pol:	Ver
Humidity	: 66%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	38.93	V	-61.84	-7.83	1.53	-71.20	-13.00	-58.20
257.95	37.52	V	-63.00	-7.89	1.99	-72.88	-13.00	-59.88
322.94	36.85	V	-61.98	-7.79	2.21	-71.98	-13.00	-58.98
400.54	38.89	V	-57.15	-7.66	2.41	-67.23	-13.00	-54.23
503.36	35.05	V	-59.46	-7.72	2.73	-69.91	-13.00	-56.91
801.15	38.87	V	-49.00	-7.87	3.55	-60.42	-13.00	-47.42
3424.80	---	V		12.45	7.35		-13.00	
5137.20	42.85	V	-53.22	12.79	9.36	-49.79	-13.00	-36.79
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Mode	: TX CH Low Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1712.40 MHz	Test By:	Nick
Temperature	: 27°C	Pol:	Hor
Humidity	: 66%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
212.36	40.82	H	-60.76	-7.85	1.67	-70.28	-13.00	-57.28
257.95	36.82	H	-63.87	-7.89	1.99	-73.76	-13.00	-60.76
322.94	34.94	H	-63.55	-7.79	2.21	-73.55	-13.00	-60.55
400.54	39.14	H	-57.19	-7.66	2.41	-67.26	-13.00	-54.26
500.45	35.26	H	-58.62	-7.72	2.73	-69.06	-13.00	-56.06
801.15	36.18	H	-52.07	-7.87	3.55	-63.49	-13.00	-50.49
3424.80	43.90	H	-58.36	12.45	7.35	-53.27	-13.00	-40.27
5137.20	---	H		12.79	9.36		-13.00	
6849.60	---	H		11.80	10.94		-13.00	
8562.00	---	H		11.73	12.66		-13.00	
10274.40	---	H		11.85	13.80		-13.00	
11986.80	---	H		13.15	15.25		-13.00	
13699.20	---	H		12.32	16.55		-13.00	
15411.60	---	H		15.69	18.06		-13.00	
17124.00	---	H		14.68	19.79		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1732.60 MHz	Test By:	Nick
Temperature	: 27°C	Pol:	Ver
Humidity	: 66%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	38.70	V	-62.07	-7.83	1.53	-71.43	-13.00	-58.43
257.95	36.57	V	-63.95	-7.89	1.99	-73.83	-13.00	-60.83
321.00	36.83	V	-62.06	-7.80	2.19	-72.06	-13.00	-59.06
400.54	41.33	V	-54.71	-7.66	2.41	-64.79	-13.00	-51.79
534.40	35.01	V	-58.53	-7.75	2.74	-69.01	-13.00	-56.01
804.06	37.47	V	-50.33	-7.87	3.56	-61.76	-13.00	-48.76
3465.20	42.70	V	-59.81	12.53	7.38	-54.66	-13.00	-41.66
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	

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 (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1732.60 MHz	Test By:	Nick
Temperature	: 27°C	Pol:	Hor
Humidity	: 66%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
212.36	38.94	H	-62.64	-7.85	1.67	-72.16	-13.00	-59.16
251.16	37.20	H	-63.67	-7.89	1.99	-73.55	-13.00	-60.55
284.14	38.69	H	-61.33	-7.91	1.99	-71.22	-13.00	-58.22
345.25	35.95	H	-61.45	-7.67	2.43	-71.55	-13.00	-58.55
400.54	36.93	H	-59.40	-7.66	2.41	-69.47	-13.00	-56.47
801.15	36.48	H	-51.77	-7.87	3.55	-63.19	-13.00	-50.19
3465.20	42.26	H	-59.97	12.53	7.38	-54.82	-13.00	-41.82
5197.80	---	H		12.85	9.41		-13.00	
6930.40	---	H		11.72	11.05		-13.00	
8663.00	---	H		11.77	12.74		-13.00	
10395.60	---	H		11.75	13.95		-13.00	
12128.20	---	H		13.35	15.32		-13.00	
13860.80	---	H		11.98	16.77		-13.00	
15593.40	---	H		16.35	18.21		-13.00	
17326.00	---	H		14.02	19.68		-13.00	

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 (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1752.60 MHz	Test By:	Nick
Temperature	: 27°C	Pol:	Ver
Humidity	: 66%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	38.67	V	-62.10	-7.83	1.53	-71.46	-13.00	-58.46
241.46	36.63	V	-64.31	-7.88	1.91	-74.10	-13.00	-61.10
257.95	36.66	V	-63.86	-7.89	1.99	-73.74	-13.00	-60.74
321.00	37.77	V	-61.12	-7.80	2.19	-71.12	-13.00	-58.12
400.54	38.46	V	-57.58	-7.66	2.41	-67.66	-13.00	-54.66
798.24	38.01	V	-49.90	-7.87	3.54	-61.31	-13.00	-48.31
3505.20	---	V		12.61	7.42		-13.00	
5257.80	46.95	V	-48.88	12.91	9.46	-45.43	-13.00	-32.43
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	

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 (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1752.60 MHz	Test By:	Nick
Temperature	: 27°C	Pol:	Hor
Humidity	: 66%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
209.45	40.93	H	-60.70	-7.85	1.64	-70.19	-13.00	-57.19
260.86	36.92	H	-63.70	-7.90	1.99	-73.58	-13.00	-60.58
321.00	34.97	H	-63.62	-7.80	2.19	-73.61	-13.00	-60.61
352.04	36.08	H	-61.06	-7.64	2.47	-71.17	-13.00	-58.17
400.54	39.36	H	-56.97	-7.66	2.41	-67.04	-13.00	-54.04
752.65	34.54	H	-53.96	-7.87	3.44	-65.27	-13.00	-52.27
3505.20	---	H		12.61	7.42		-13.00	
5257.80	43.57	H	-52.19	12.91	9.46	-48.74	-13.00	-35.74
7010.40	---	H		11.65	11.14		-13.00	
8763.00	---	H		11.80	12.82		-13.00	
10515.60	---	H		11.66	14.08		-13.00	
12268.20	---	H		13.54	15.39		-13.00	
14020.80	---	H		11.67	16.95		-13.00	
15773.40	---	H		16.75	18.27		-13.00	
17526.00	---	H		13.21	19.62		-13.00	

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 (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode : TX CH Low Mode
 Fundamental Frequency : 826.4MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	39.17	V	-61.28	-9.97	1.67	-72.92	-13.00	-59.92
257.95	38.08	V	-61.55	-10.03	2.02	-73.60	-13.00	-60.60
322.94	36.97	V	-61.00	-9.93	2.26	-73.18	-13.00	-60.18
400.54	38.78	V	-56.70	-9.80	2.51	-69.02	-13.00	-56.02
604.24	34.58	V	-54.93	-9.93	3.04	-67.91	-13.00	-54.91
752.65	34.36	V	-52.73	-10.01	3.48	-66.21	-13.00	-53.21
1652.80	45.05	V	-59.53	9.30	5.23	-55.46	-13.00	-42.46
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode : TX CH Low Mode
 Fundamental Frequency : 826.4MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
212.36	40.41	H	-60.64	-9.99	1.78	-72.41	-13.00	-59.41
257.95	37.47	H	-61.50	-10.03	2.02	-73.56	-13.00	-60.56
353.98	35.68	H	-61.46	-9.78	2.37	-73.61	-13.00	-60.61
398.60	39.00	H	-57.45	-9.80	2.51	-69.76	-13.00	-56.76
495.60	36.34	H	-57.15	-9.86	2.79	-69.79	-13.00	-56.79
745.86	34.99	H	-61.22	-10.01	3.46	-74.68	-13.00	-61.68
1652.80	44.23	H	-60.17	9.30	5.23	-56.10	-13.00	-43.10
2479.20	---	H		10.07	6.54		-13.00	
3305.60	---	H		12.19	7.73		-13.00	
4132.00	---	H		12.62	8.87		-13.00	
4958.40	---	H		12.65	9.75		-13.00	
5784.80	---	H		13.58	10.55		-13.00	
6611.20	---	H		12.03	11.31		-13.00	
7437.60	---	H		11.48	12.12		-13.00	
8264.00	---	H		11.50	12.73		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 836.6MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	38.15	V	-62.30	-9.97	1.67	-73.94	-13.00	-60.94
257.95	38.98	V	-60.65	-10.03	2.02	-72.70	-13.00	-59.70
321.00	37.09	V	-60.90	-9.94	2.25	-73.09	-13.00	-60.09
374.35	35.88	V	-60.71	-9.79	2.43	-72.94	-13.00	-59.94
400.54	40.11	V	-55.37	-9.80	2.51	-67.69	-13.00	-54.69
648.86	33.88	V	-55.05	-9.95	3.16	-68.16	-13.00	-55.16
1672.00	44.23	V	-60.33	9.36	5.27	-56.24	-13.00	-43.24
2508.00	---	V		10.08	6.58		-13.00	
3344.00	---	V		12.27	7.79		-13.00	
4180.00	---	V		12.62	8.93		-13.00	
5016.00	---	V		12.67	9.81		-13.00	
5852.00	---	V		13.68	10.62		-13.00	
6688.00	---	V		11.96	11.39		-13.00	
7524.00	---	V		11.45	12.20		-13.00	
8360.00	---	V		11.58	12.81		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 836.6MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
158.04	35.39	H	-63.00	-9.95	1.61	-74.56	-13.00	-61.56
209.45	40.97	H	-60.22	-9.99	1.76	-71.97	-13.00	-58.97
257.95	37.61	H	-61.36	-10.03	2.02	-73.42	-13.00	-60.42
345.25	36.19	H	-61.05	-9.81	2.34	-73.20	-13.00	-60.20
400.54	38.93	H	-57.47	-9.80	2.51	-69.78	-13.00	-56.78
652.74	34.13	H	-55.48	-9.95	3.17	-68.60	-13.00	-55.60
1672.00	44.34	H	-60.04	9.36	5.27	-55.94	-13.00	-42.94
2508.00	---	H		10.08	6.58		-13.00	
3344.00	---	H		12.27	7.79		-13.00	
4180.00	---	H		12.62	8.93		-13.00	
5016.00	---	H		12.67	9.81		-13.00	
5852.00	---	H		13.68	10.62		-13.00	
6688.00	---	H		11.96	11.39		-13.00	
7524.00	---	H		11.45	12.20		-13.00	
8360.00	---	H		11.58	12.81		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 846.6MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
185.20	38.89	V	-61.56	-9.97	1.67	-73.20	-13.00	-60.20
257.95	38.68	V	-60.95	-10.03	2.02	-73.00	-13.00	-60.00
322.94	37.40	V	-60.57	-9.93	2.26	-72.75	-13.00	-59.75
400.54	39.47	V	-56.01	-9.80	2.51	-68.33	-13.00	-55.33
571.26	33.57	V	-57.68	-9.91	2.99	-70.58	-13.00	-57.58
749.74	34.53	V	-52.59	-10.01	3.47	-66.07	-13.00	-53.07
1693.20	43.77	V	-60.77	9.42	5.30	-56.65	-13.00	-43.65
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 846.6MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
156.10	38.21	H	-60.03	-9.94	1.60	-71.58	-13.00	-58.58
212.36	41.25	H	-59.80	-9.99	1.78	-71.57	-13.00	-58.57
260.86	37.17	H	-61.71	-10.04	2.03	-73.78	-13.00	-60.78
350.10	36.95	H	-60.25	-9.78	2.36	-72.39	-13.00	-59.39
400.54	40.37	H	-56.03	-9.80	2.51	-68.34	-13.00	-55.34
553.80	35.11	H	-56.53	-9.90	2.97	-69.40	-13.00	-56.40
1693.20	42.86	H	-61.49	9.42	5.30	-57.37	-13.00	-44.37
2539.80	---	H		10.18	6.62		-13.00	
3386.40	---	H		12.36	7.85		-13.00	
4233.00	---	H		12.63	8.99		-13.00	
5079.60	---	H		12.73	9.87		-13.00	
5926.20	---	H		13.79	10.69		-13.00	
6772.80	---	H		11.87	11.47		-13.00	
7619.40	---	H		11.41	12.26		-13.00	
8466.00	---	H		11.68	12.89		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 Cellular Mode

Operation Mode	: TX CH Low Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 824.70MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
257.95	37.57	V	-62.06	-7.89	2.02	-71.97	-13.00	-58.97
293.84	40.75	V	-57.70	-7.92	2.15	-67.77	-13.00	-54.77
322.94	36.19	V	-61.78	-7.79	2.26	-71.82	-13.00	-58.82
377.26	35.41	V	-61.06	-7.65	2.44	-71.15	-13.00	-58.15
400.54	40.26	V	-55.22	-7.66	2.51	-65.40	-13.00	-52.40
645.95	33.74	V	-55.23	-7.81	3.15	-66.19	-13.00	-53.19
1649.40	---	V		9.29	5.23		-13.00	
2474.10	51.20	V	-49.80	10.08	6.53	-46.25	-13.00	-33.25
3298.80	---	V		12.17	7.72		-13.00	
4123.50	---	V		12.61	8.86		-13.00	
4948.20	---	V		12.65	9.74		-13.00	
5772.90	---	V		13.56	10.54		-13.00	
6597.60	---	V		12.04	11.30		-13.00	
7422.30	---	V		11.49	12.10		-13.00	
8247.00	---	V		11.48	12.72		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 Cellular Mode

Operation Mode	: TX CH Low Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 824.70MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
204.60	42.65	H	-58.78	-7.84	1.74	-68.36	-13.00	-55.36
260.86	37.32	H	-61.56	-7.90	2.03	-71.49	-13.00	-58.49
340.40	36.47	H	-60.82	-7.69	2.32	-70.84	-13.00	-57.84
400.54	42.52	H	-53.88	-7.66	2.51	-64.05	-13.00	-51.05
487.84	38.63	H	-54.93	-7.72	2.77	-65.41	-13.00	-52.41
534.40	35.87	H	-56.39	-7.75	2.91	-67.05	-13.00	-54.05
1649.40	39.66	H	-64.74	9.29	5.23	-60.68	-13.00	-47.68
2474.10	52.60	H	-48.30	10.08	6.53	-44.76	-13.00	-31.76
3298.80	---	H		12.17	7.72		-13.00	
4123.50	---	H		12.61	8.86		-13.00	
4948.20	---	H		12.65	9.74		-13.00	
5772.90	---	H		13.56	10.54		-13.00	
6597.60	---	H		12.04	11.30		-13.00	
7422.30	---	H		11.49	12.10		-13.00	
8247.00	---	H		11.48	12.72		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 Cellular Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 836.52MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Jazz
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
209.45	37.48	V	-63.94	-7.85	1.76	-73.56	-13.00	-60.56
241.46	36.28	V	-63.93	-7.88	1.94	-73.76	-13.00	-60.76
257.95	38.40	V	-61.23	-7.89	2.02	-71.14	-13.00	-58.14
321.00	37.49	V	-60.50	-7.80	2.25	-70.55	-13.00	-57.55
374.35	35.87	V	-60.72	-7.65	2.43	-70.81	-13.00	-57.81
400.54	40.51	V	-54.97	-7.66	2.51	-65.15	-13.00	-52.15
1673.04	---	V		9.36	5.27		-13.00	
2509.56	48.64	V	-52.14	10.09	6.58	-48.64	-13.00	-35.64
3346.08	---	V		12.27	7.79		-13.00	
4182.60	---	V		12.62	8.93		-13.00	
5019.12	---	V		12.67	9.81		-13.00	
5855.64	---	V		13.68	10.62		-13.00	
6692.16	---	V		11.95	11.39		-13.00	
7528.68	---	V		11.45	12.20		-13.00	
8365.20	---	V		11.59	12.81		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 Cellular Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 836.52MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
177.44	38.73	H	-61.17	-7.82	1.66	-70.65	-13.00	-57.65
216.24	40.24	H	-60.62	-7.86	1.80	-70.28	-13.00	-57.28
257.95	38.84	H	-60.13	-7.89	2.02	-70.05	-13.00	-57.05
338.46	36.60	H	-60.71	-7.70	2.32	-70.73	-13.00	-57.73
400.54	41.78	H	-54.62	-7.66	2.51	-64.79	-13.00	-51.79
485.90	37.41	H	-56.16	-7.71	2.76	-66.64	-13.00	-53.64
1673.04	38.46	H	-65.92	9.36	5.27	-61.82	-13.00	-48.82
2509.56	41.62	H	-59.08	10.09	6.58	-55.58	-13.00	-42.58
3346.08	---	H		12.27	7.79		-13.00	
4182.60	---	H		12.62	8.93		-13.00	
5019.12	---	H		12.67	9.81		-13.00	
5855.64	---	H		13.68	10.62		-13.00	
6692.16	---	H		11.95	11.39		-13.00	
7528.68	---	H		11.45	12.20		-13.00	
8365.20	---	H		11.59	12.81		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 Cellular Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 848.31MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
165.80	36.61	H	-62.39	-7.81	1.63	-71.83	-13.00	-58.83
216.24	43.25	H	-57.61	-7.86	1.80	-67.27	-13.00	-54.27
257.95	37.63	H	-61.34	-7.89	2.02	-71.26	-13.00	-58.26
340.40	39.61	H	-57.68	-7.69	2.32	-67.70	-13.00	-54.70
400.54	43.38	H	-53.02	-7.66	2.51	-63.19	-13.00	-50.19
483.96	37.21	H	-56.38	-7.71	2.76	-66.85	-13.00	-53.85
1696.62	40.22	H	-64.13	9.43	5.31	-60.00	-13.00	-47.00
2544.93	46.16	H	-54.44	10.19	6.63	-50.88	-13.00	-37.88
3393.24	37.55	H	-61.48	12.38	7.86	-56.96	-13.00	-43.96
4241.55	---	H		12.63	9.00		-13.00	
5089.86	---	H		12.74	9.88		-13.00	
5938.17	---	H		13.81	10.70		-13.00	
6786.48	---	H		11.86	11.48		-13.00	
7634.79	---	H		11.41	12.27		-13.00	
8483.10	---	H		11.69	12.91		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 PCS Mode

Operation Mode : TX CH Low Mode
 Fundamental Frequency : 1851.25MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
257.95	37.47	V	-62.16	-7.89	2.02	-72.07	-13.00	-59.07
322.94	36.80	V	-61.17	-7.79	2.26	-71.21	-13.00	-58.21
374.35	35.73	V	-60.86	-7.65	2.43	-70.95	-13.00	-57.95
400.54	39.24	V	-56.24	-7.66	2.51	-66.42	-13.00	-53.42
447.10	33.81	V	-60.21	-7.70	2.65	-70.56	-13.00	-57.56
738.10	33.93	V	-53.73	-7.87	3.43	-65.03	-13.00	-52.03
3702.50	39.55	V	-58.37	12.61	8.31	-54.07	-13.00	-41.07
5553.75	46.09	V	-44.74	13.23	10.33	-41.84	-13.00	-28.84
7405.00	---	V		11.50	12.09		-13.00	
9256.25	---	V		11.92	13.50		-13.00	
11107.50	---	V		11.67	15.12		-13.00	
12958.75	---	V		13.62	16.61		-13.00	
14810.00	---	V		12.79	17.96		-13.00	
16661.25	---	V		15.89	19.14		-13.00	
18512.50	---	V		18.75	10.62		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 PCS Mode

Operation Mode	: TX CH Low Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1851.25MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
214.30	42.44	H	-58.52	-7.85	1.79	-68.16	-13.00	-55.16
262.80	36.50	H	-62.32	-7.90	2.04	-72.25	-13.00	-59.25
342.34	36.53	H	-60.74	-7.68	2.33	-70.75	-13.00	-57.75
400.54	40.76	H	-55.64	-7.66	2.51	-65.81	-13.00	-52.81
483.96	35.95	H	-57.64	-7.71	2.76	-68.11	-13.00	-55.11
534.40	40.29	H	-51.97	-7.75	2.91	-62.63	-13.00	-49.63
3702.50	46.61	H	-51.42	12.61	8.31	-47.13	-13.00	-34.13
5553.75	45.77	H	-45.27	13.23	10.33	-42.37	-13.00	-29.37
7405.00	---	H		11.50	12.09		-13.00	
9256.25	---	H		11.92	13.50		-13.00	
11107.50	---	H		11.67	15.12		-13.00	
12958.75	---	H		13.62	16.61		-13.00	
14810.00	---	H		12.79	17.96		-13.00	
16661.25	---	H		15.89	19.14		-13.00	
18512.50	---	H		18.75	10.62		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
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Radiated Spurious Emission Measurement Result: EVDO 2000 PCS Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1880MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
156.10	39.30	V	-58.54	-7.80	1.60	-67.95	-13.00	-54.95
243.40	41.72	V	-58.42	-7.88	1.95	-68.26	-13.00	-55.26
257.95	38.05	V	-61.58	-7.89	2.02	-71.49	-13.00	-58.49
322.94	35.40	V	-62.57	-7.79	2.26	-72.61	-13.00	-59.61
377.26	35.98	V	-60.49	-7.65	2.44	-70.58	-13.00	-57.58
400.54	35.85	V	-59.63	-7.66	2.51	-69.81	-13.00	-56.81
3600.00	---	V		12.61	8.17		-13.00	
5400.00	41.99	V	-49.24	13.05	10.18	-46.37	-13.00	-33.37
7200.00	---	V		11.57	11.88		-13.00	
9000.00	---	V		11.89	13.32		-13.00	
10800.00	---	V		11.58	14.88		-13.00	
12600.00	---	V		13.81	16.40		-13.00	
14400.00	---	V		11.58	17.59		-13.00	
16200.00	---	V		16.86	18.86		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 PCS Mode

Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Sep. 03, 2011
 Test By: Nick
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	37.43	H	-61.19	-7.81	1.62	-70.61	-13.00	-57.61
216.24	40.09	H	-60.77	-7.86	1.80	-70.43	-13.00	-57.43
257.95	37.65	H	-61.32	-7.89	2.02	-71.24	-13.00	-58.24
400.54	41.34	H	-55.06	-7.66	2.51	-65.23	-13.00	-52.23
485.90	39.02	H	-54.55	-7.71	2.76	-65.03	-13.00	-52.03
749.74	34.58	H	-62.35	-7.87	3.47	-73.69	-13.00	-60.69
3600.00	39.78	H	-58.72	12.61	8.17	-54.28	-13.00	-41.28
5400.00	40.77	H	-50.68	13.05	10.18	-47.81	-13.00	-34.81
7200.00	---	H		11.57	11.88		-13.00	
9000.00	---	H		11.89	13.32		-13.00	
10800.00	---	H		11.58	14.88		-13.00	
12600.00	---	H		13.81	16.40		-13.00	
14400.00	---	H		11.58	17.59		-13.00	
16200.00	---	H		16.86	18.86		-13.00	
18000.00	---	H		8.87	20.01		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 PCS Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1908.75MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
158.04	34.93	V	-63.08	-7.81	1.61	-72.50	-13.00	-59.50
248.25	38.92	V	-61.04	-7.89	1.98	-70.90	-13.00	-57.90
282.20	35.94	V	-62.89	-7.91	2.11	-72.91	-13.00	-59.91
322.94	35.69	V	-62.28	-7.79	2.26	-72.32	-13.00	-59.32
400.54	38.40	V	-57.08	-7.66	2.51	-67.26	-13.00	-54.26
699.30	34.11	V	-55.32	-7.86	3.29	-66.47	-13.00	-53.47
3817.50	---	V		12.60	8.47		-13.00	
5726.25	42.59	V	-47.73	13.49	10.50	-44.74	-13.00	-31.74
7635.00	---	V		11.41	12.27		-13.00	
9543.75	---	V		11.95	13.73		-13.00	
11452.50	---	V		12.16	15.43		-13.00	
13361.25	---	V		12.99	16.82		-13.00	
15270.00	---	V		14.95	18.28		-13.00	
17178.75	---	V		14.50	19.51		-13.00	
19087.50	---	V		18.65	20.77		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EVDO 2000 PCS Mode

Operation Mode	: TX CH High Mode	Test Date:	Sep. 03, 2011
Fundamental Frequency	: 1908.75MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	40.29	H	-60.57	-7.86	1.80	-70.23	-13.00	-57.23
257.95	37.47	H	-61.50	-7.89	2.02	-71.42	-13.00	-58.42
340.40	36.53	H	-60.76	-7.69	2.32	-70.78	-13.00	-57.78
400.54	39.41	H	-56.99	-7.66	2.51	-67.16	-13.00	-54.16
483.96	35.18	H	-58.41	-7.71	2.76	-68.88	-13.00	-55.88
536.34	34.98	H	-57.21	-7.75	2.92	-67.88	-13.00	-54.88
3817.50	42.19	H	-55.32	12.60	8.47	-51.19	-13.00	-38.19
5726.25	41.29	H	-49.17	13.49	10.50	-46.18	-13.00	-33.18
7635.00	---	H		11.41	12.27		-13.00	
9543.75	---	H		11.95	13.73		-13.00	
11452.50	---	H		12.16	15.43		-13.00	
13361.25	---	H		12.99	16.82		-13.00	
15270.00	---	H		14.95	18.28		-13.00	
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