

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E CLASS II PC REPORT

OF

Product Name: HSPA+ Module

Brand Name: HUAWEI

Model Name: EM820W

Model Differences: N/A

FCC ID: QISEM820W

Report No.: EH/2011/30056-01

Issue Date: Aug. 15, 2011

FCC Rule Part: 2, 22H & 24E

Prepared for: Huawei Technologies Co., Ltd
Bantian, Longgang District, Shenzhen, China

Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Huawei Technologies Co., Ltd
Bantian, Longgang District, Shenzhen, China

Product Name: HSPA+ Module

Brand Name: HUAWEI

Model Number: EM820W

Model Different: N/A

FCC ID: QISEM820W

File Number: EH/2011/30056-01

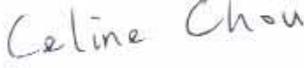
Date of test: Aug. 11, 2011 ~ Aug. 15, 2011

Date of EUT Received: Aug. 11, 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.

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

Test By:	 <hr/> <i>Nick Lin / Engineer</i>	Date:	Aug. 15, 2011
Prepared By:	 <hr/> <i>Celine Chou / Clerk</i>	Date:	Aug. 15, 2011
Approved By:	 <hr/> <i>Jim Chang / Supervisor</i>	Date:	Aug. 15, 2011

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Version

Version No.	Date	Description
00	Aug. 15, 2011	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	HSPA+ Module
Brand Name:	HUAWEI
Model Name:	EM820W
Model Difference:	N/A
Power Supply	3.3Vdc; Supplied by PCIE MINI Card interface

GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33 dBm
	GSM/GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30 dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27 dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz - 846.6MHz	24 dBm
IMEI:	354283040021234		
WWAN module FCC ID	QISEM820W		
Class II Permissive change	Adding a Mobile Internet Device (DELL / M02M002)		

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

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

This submittal(s) (test report) is intended for FCC ID: **QISEM820W** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules.

1.2. Test Methodology

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

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

1.3. Test Facility

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

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

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

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C and RSS-Gen, 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 and RSS-Gen, 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:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2012
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2010	11/18/2011
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2010	07/09/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2010	07/09/2012
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2010	01/21/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2010	05/08/2012
Signal Generator	R&S	SMR40	100210	01/22/2010	01/21/2012
Signal Generator	Agilent	E4438C	MY45093613	06/11/2011	06/10/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2012
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2011	07/04/2012
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/12/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2012
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2010	01/04/2012
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2010	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011

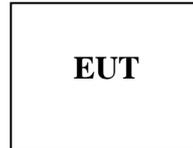
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2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Remote site



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
1.	Universal Radio Communication Tester	R&S	CMU200	102189

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT was staying in continuous transmitting mode. Channel Low, Mid and High for each band with rated data rate were chosen for full 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 GPRS/EDGE and WCDMA/HSUPA/HSDPA Band II, V with power adaptor. The worst-case of H position for GPRS 850 band and HSDPA Band II, E2 position for EDGE 1900, E1 position for HSUPA Band V were reported.

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5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF

5.1. SPURIOUS 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.

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

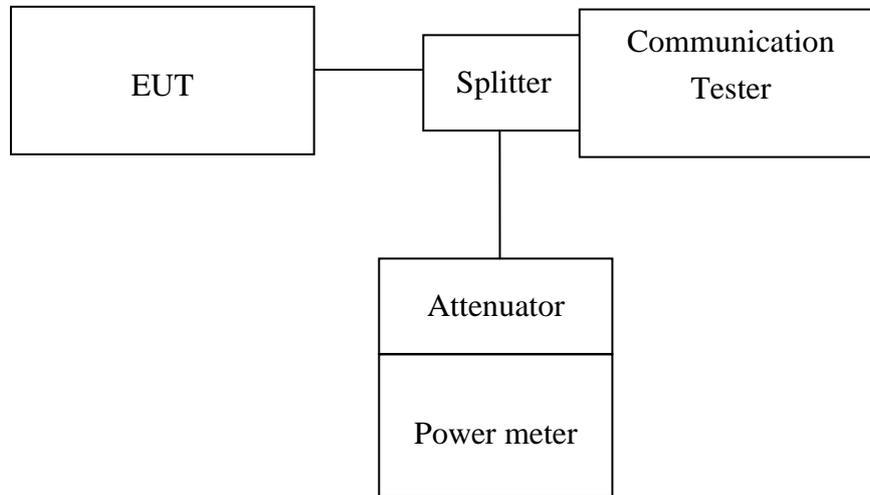
Maximum Output Powers for HSUPA

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

6.5. Measurement Result:

Please refer to SAR Test Report (ES/2011/30019)

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

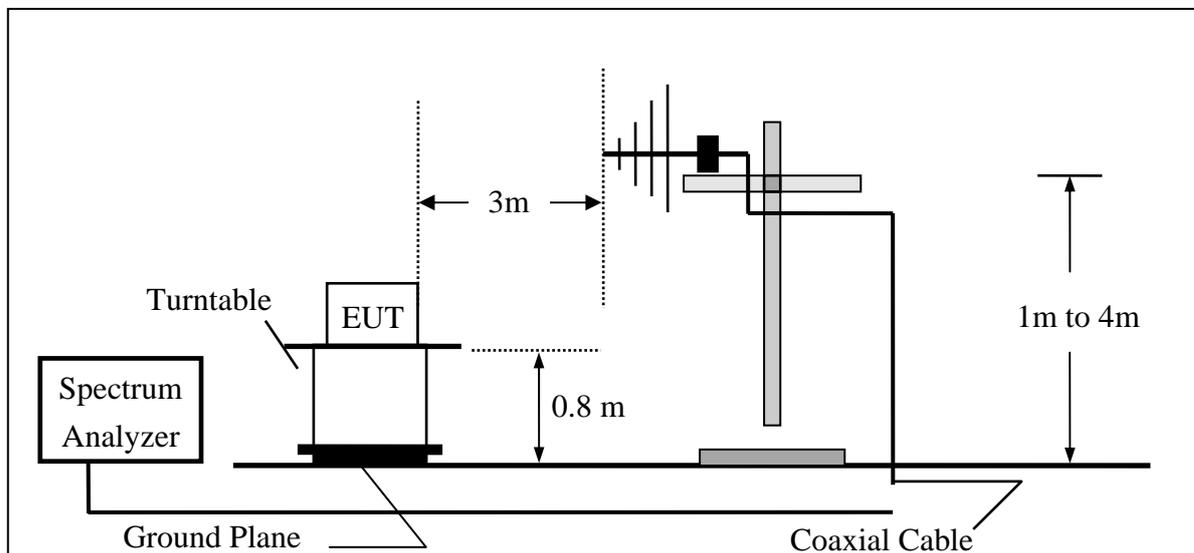
According to FCC §2.1046

FCC 22.913(a) 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):

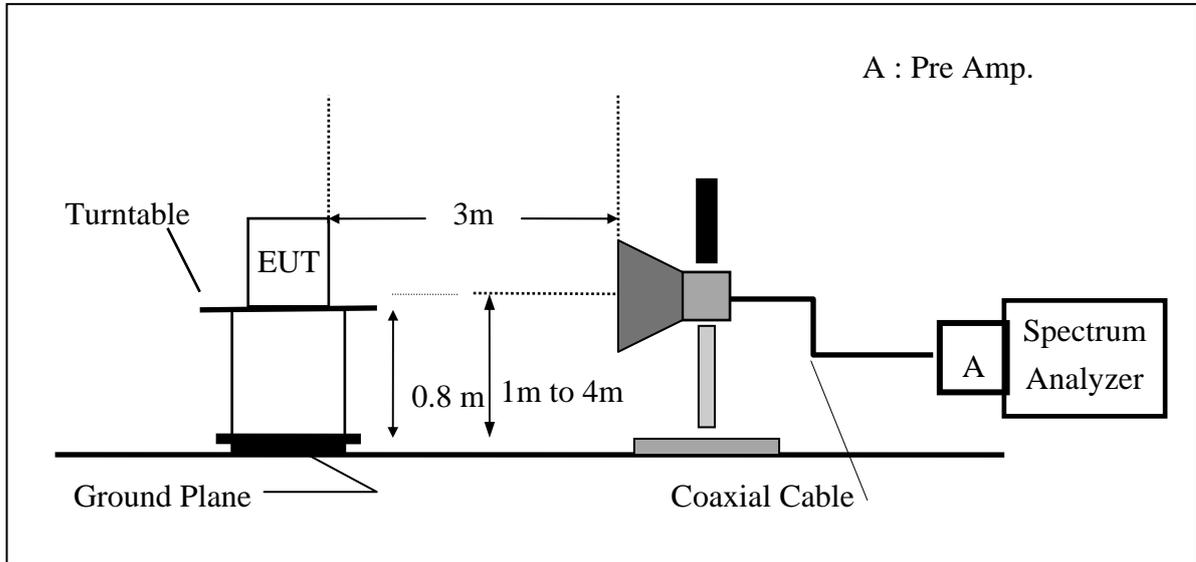
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



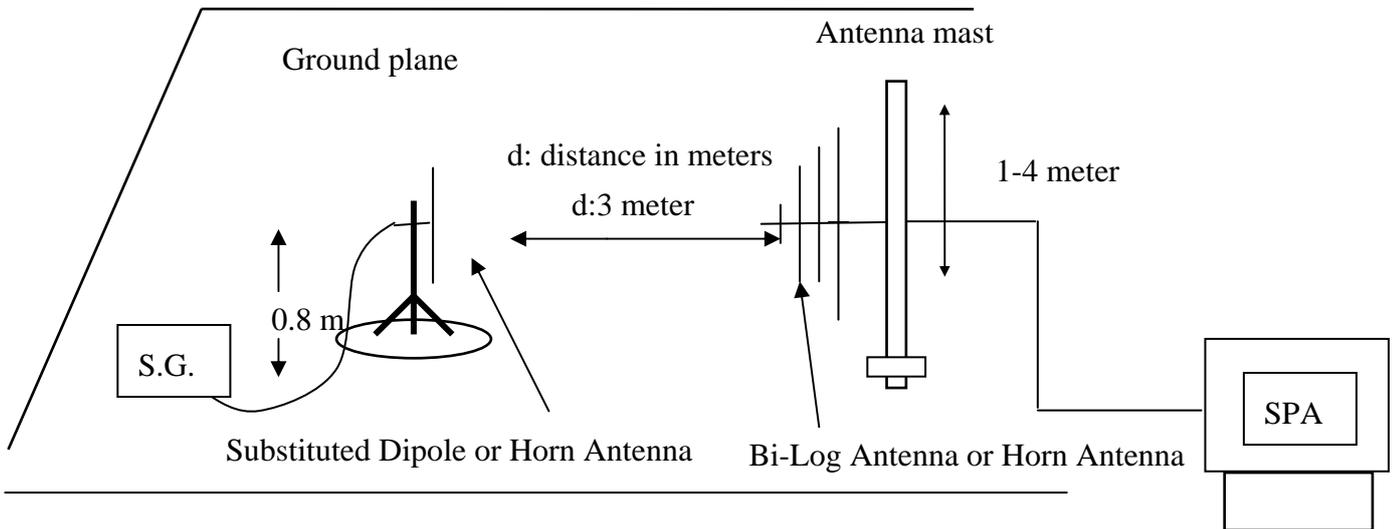
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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

ERP in frequency band 824.2 –848.80MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

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

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. 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	125.30	38.91	-7.87	3.62	27.41	38.45
				H	127.29	41.02	-7.87	3.62	29.52	38.45
			E1	V	124.35	37.96	-7.87	3.62	26.46	38.45
				H	123.45	37.18	-7.87	3.62	25.68	38.45
			E2	V	116.26	29.87	-7.87	3.62	18.37	38.45
				H	125.15	38.88	-7.87	3.62	27.38	38.45
	836.60	190	H	V	126.14	39.89	-7.88	3.65	28.36	38.45
				H	127.84	41.61	-7.88	3.65	30.08	38.45
			E1	V	124.47	38.22	-7.88	3.65	26.69	38.45
				H	123.45	37.22	-7.88	3.65	25.69	38.45
			E2	V	116.78	30.53	-7.88	3.65	19.00	38.45
				H	125.23	39.00	-7.88	3.65	27.47	38.45
	848.80	251	H	V	127.23	41.11	-7.88	3.68	29.55	38.45
				H	128.52	42.33	-7.88	3.68	30.77	38.45
			E1	V	125.49	39.37	-7.88	3.68	27.81	38.45
				H	124.28	38.09	-7.88	3.68	26.53	38.45
			E2	V	117.84	31.72	-7.88	3.68	20.16	38.45
				H	126.18	39.99	-7.88	3.68	28.43	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	124.13	19.74	9.90	5.56	24.08	33.00
				H	120.21	16.03	9.90	5.56	20.37	33.00
			E1	V	120.81	16.42	9.90	5.56	20.76	33.00
				H	123.46	19.28	9.90	5.56	23.62	33.00
			E2	V	110.08	5.69	9.90	5.56	10.03	33.00
				H	123.84	19.66	9.90	5.84	23.72	33.00
	1880.00	661	H	V	124.42	20.06	9.99	5.61	24.44	33.00
				H	121.69	17.55	9.99	5.61	21.92	33.00
			E1	V	121.24	16.88	9.99	5.61	21.26	33.00
				H	123.48	19.34	9.99	5.61	23.71	33.00
			E2	V	110.38	6.02	9.99	5.61	10.40	33.00
				H	123.54	19.40	9.99	5.61	23.77	33.00
	1909.80	810	H	V	124.20	19.87	10.08	5.66	24.29	33.00
				H	122.11	18.00	10.08	5.66	22.42	33.00
			E1	V	119.04	14.71	10.08	5.66	19.13	33.00
				H	121.89	17.78	10.08	5.66	22.20	33.00
			E2	V	110.44	6.11	10.08	5.66	10.53	33.00
				H	123.17	19.06	10.08	5.66	23.48	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
RBW=300K, 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	123.06	36.67	-7.87	3.62	25.17	38.45
				H	125.00	38.73	-7.87	3.62	27.23	38.45
			E1	V	121.61	35.22	-7.87	3.62	23.72	38.45
				H	120.98	34.71	-7.87	3.62	23.21	38.45
			E2	V	113.97	27.58	-7.87	3.62	16.08	38.45
				H	123.65	37.38	-7.87	3.62	25.88	38.45
	836.60	190	H	V	123.91	37.66	-7.88	3.65	26.13	38.45
				H	125.52	39.29	-7.88	3.65	27.76	38.45
			E1	V	122.34	36.09	-7.88	3.65	24.56	38.45
				H	120.95	34.72	-7.88	3.65	23.19	38.45
			E2	V	114.96	28.71	-7.88	3.65	17.18	38.45
				H	123.99	37.76	-7.88	3.65	26.23	38.45
	848.80	251	H	V	125.08	38.96	-7.88	3.68	27.40	38.45
				H	126.13	39.94	-7.88	3.68	28.38	38.45
			E1	V	123.66	37.54	-7.88	3.68	25.98	38.45
				H	121.49	35.30	-7.88	3.68	23.74	38.45
			E2	V	116.13	30.01	-7.88	3.68	18.45	38.45
				H	124.61	38.42	-7.88	3.68	26.86	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	124.66	20.27	9.90	5.56	24.61	33.00
				H	121.03	16.85	9.90	5.56	21.19	33.00
			E1	V	121.67	17.28	9.90	5.56	21.62	33.00
				H	124.14	19.96	9.90	5.56	24.30	33.00
			E2	V	113.52	9.13	9.90	5.56	13.47	33.00
				H	125.59	21.41	9.90	5.84	25.47	33.00
	1880.00	661	H	V	124.47	20.11	9.99	5.61	24.49	33.00
				H	121.58	17.44	9.99	5.61	21.81	33.00
			E1	V	121.84	17.48	9.99	5.61	21.86	33.00
				H	123.45	19.31	9.99	5.61	23.68	33.00
			E2	V	113.97	9.61	9.99	5.61	13.99	33.00
				H	125.49	21.35	9.99	5.61	25.72	33.00
	1909.80	810	H	V	124.79	20.46	10.08	5.66	24.88	33.00
				H	122.08	17.97	10.08	5.66	22.39	33.00
			E1	V	122.48	18.15	10.08	5.66	22.57	33.00
				H	123.67	19.56	10.08	5.66	23.98	33.00
			E2	V	113.95	9.62	10.08	5.66	14.04	33.00
				H	125.29	21.18	10.08	5.66	25.60	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
RBW=300K, 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)
WCDMA II	1852.40	9262	H	V	121.04	16.66	9.90	5.56	20.99	33.00
				H	117.16	12.98	9.90	5.56	17.32	33.00
			E1	V	117.68	13.30	9.90	5.56	17.63	33.00
				H	119.18	15.00	9.90	5.56	19.34	33.00
			E2	V	110.81	6.43	9.90	5.56	10.76	33.00
				H	120.92	16.74	9.90	5.84	20.80	33.00
	1880.00	9400	H	V	121.80	17.44	9.99	5.61	21.82	33.00
				H	117.94	13.80	9.99	5.61	18.17	33.00
			E1	V	119.04	14.65	9.90	5.56	18.99	33.00
				H	120.30	16.16	9.99	5.61	20.53	33.00
			E2	V	111.16	6.80	9.99	5.61	11.18	33.00
				H	120.86	16.72	9.99	5.61	21.09	33.00
	1907.60	9538	H	V	121.53	17.20	10.07	5.66	21.61	33.00
				H	118.14	14.03	10.07	5.66	18.44	33.00
			E1	V	119.37	15.04	10.07	5.66	19.45	33.00
				H	120.64	16.53	10.07	5.66	20.94	33.00
			E2	V	111.63	7.30	10.07	5.66	11.71	33.00
				H	120.14	16.03	10.07	5.66	20.44	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

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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	128	H	V	116.50	30.14	-10.02	3.63	16.49	38.45
				H	118.88	32.62	-10.02	3.63	18.98	38.45
			E1	V	116.38	30.02	-10.02	3.63	16.37	38.45
				H	116.01	29.75	-10.02	3.63	16.11	38.45
			E2	V	109.59	23.23	-10.02	3.63	9.58	38.45
				H	118.53	32.27	-10.02	3.63	18.63	38.45
	836.00	190	H	V	118.47	32.21	-10.02	3.65	18.54	38.45
				H	120.61	34.38	-10.02	3.65	20.71	38.45
			E1	V	118.21	31.95	-10.02	3.65	18.28	38.45
				H	117.55	31.32	-10.02	3.65	17.65	38.45
			E2	V	111.36	25.10	-10.02	3.65	11.43	38.45
				H	119.97	33.74	-10.02	3.65	20.07	38.45
	846.60	251	H	V	119.09	32.94	-10.02	3.67	19.25	38.45
				H	120.92	34.72	-10.02	3.67	21.03	38.45
			E1	V	118.49	32.33	-10.02	3.67	18.64	38.45
				H	117.77	31.57	-10.02	3.67	17.88	38.45
			E2	V	111.87	25.72	-10.02	3.67	12.03	38.45
				H	120.10	33.90	-10.02	3.67	20.21	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

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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	119.49	15.11	9.90	5.56	19.44	33.00
				H	115.76	11.58	9.90	5.56	15.92	33.00
			E1	V	116.39	12.01	9.90	5.56	16.34	33.00
				H	118.90	14.72	9.90	5.56	19.06	33.00
			E2	V	108.74	4.36	9.90	5.56	8.69	33.00
				H	120.64	16.46	9.90	5.84	20.52	33.00
	1880.00	9400	H	V	120.51	16.15	9.99	5.61	20.53	33.00
				H	116.90	12.76	9.99	5.61	17.13	33.00
			E1	V	117.81	13.42	9.90	5.56	17.76	33.00
				H	120.07	15.93	9.99	5.61	20.30	33.00
			E2	V	108.58	4.22	9.99	5.61	8.60	33.00
				H	120.84	16.70	9.99	5.61	21.07	33.00
	1907.60	9538	H	V	120.23	15.90	10.07	5.66	20.31	33.00
				H	116.32	12.21	10.07	5.66	16.62	33.00
			E1	V	118.06	13.73	10.07	5.66	18.14	33.00
				H	120.14	16.03	10.07	5.66	20.44	33.00
			E2	V	108.75	4.42	10.07	5.66	8.83	33.00
				H	119.63	15.52	10.07	5.66	19.93	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

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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

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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	128	H	V	117.59	31.23	-10.02	3.63	17.58	38.45
				H	118.96	32.70	-10.02	3.63	19.06	38.45
			E1	V	119.36	33.00	-10.02	3.63	19.35	38.45
				H	116.05	29.79	-10.02	3.63	16.15	38.45
			E2	V	108.31	21.95	-10.02	3.63	8.30	38.45
				H	118.81	32.55	-10.02	3.63	18.91	38.45
	836.00	190	H	V	120.02	33.76	-10.02	3.65	20.09	38.45
				H	120.90	34.67	-10.02	3.65	21.00	38.45
			E1	V	121.65	35.39	-10.02	3.65	21.72	38.45
				H	118.29	32.06	-10.02	3.65	18.39	38.45
			E2	V	109.71	23.45	-10.02	3.65	9.78	38.45
				H	120.68	34.45	-10.02	3.65	20.78	38.45
	846.60	251	H	V	119.98	33.83	-10.02	3.67	20.14	38.45
				H	120.63	34.43	-10.02	3.67	20.74	38.45
			E1	V	121.85	35.69	-10.02	3.67	22.00	38.45
				H	118.35	32.15	-10.02	3.67	18.46	38.45
			E2	V	110.15	24.00	-10.02	3.67	10.31	38.45
				H	121.22	35.02	-10.02	3.67	21.33	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

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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	121.33	16.95	9.90	5.56	21.28	33.00
				H	117.48	13.30	9.90	5.56	17.64	33.00
			E1	V	117.28	12.90	9.90	5.56	17.23	33.00
				H	118.85	14.67	9.90	5.56	19.01	33.00
			E2	V	108.51	4.13	9.90	5.56	8.46	33.00
				H	120.45	16.27	9.90	5.84	20.33	33.00
	1880.00	9400	H	V	122.19	17.83	9.99	5.61	22.21	33.00
				H	118.38	14.24	9.99	5.61	18.61	33.00
			E1	V	118.62	14.23	9.90	5.56	18.57	33.00
				H	120.26	16.12	9.99	5.61	20.49	33.00
			E2	V	109.02	4.66	9.99	5.61	9.04	33.00
				H	121.15	17.01	9.99	5.61	21.38	33.00
	1907.60	9538	H	V	121.78	17.45	10.07	5.66	21.86	33.00
				H	118.33	14.22	10.07	5.66	18.63	33.00
			E1	V	118.96	14.63	10.07	5.66	19.04	33.00
				H	120.32	16.21	10.07	5.66	20.62	33.00
			E2	V	109.43	5.10	10.07	5.66	9.51	33.00
				H	119.84	15.73	10.07	5.66	20.14	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

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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	128	H	V	120.46	34.10	-10.02	3.63	20.45	38.45
				H	121.68	35.42	-10.02	3.63	21.78	38.45
			E1	V	119.44	33.08	-10.02	3.63	19.43	38.45
				H	115.61	29.35	-10.02	3.63	15.71	38.45
			E2	V	108.39	22.03	-10.02	3.63	8.38	38.45
				H	118.67	32.41	-10.02	3.63	18.77	38.45
	836.00	190	H	V	120.97	34.71	-10.02	3.65	21.04	38.45
				H	121.15	34.92	-10.02	3.65	21.25	38.45
			E1	V	121.51	35.25	-10.02	3.65	21.58	38.45
				H	116.99	30.76	-10.02	3.65	17.09	38.45
			E2	V	109.80	23.54	-10.02	3.65	9.87	38.45
				H	120.59	34.36	-10.02	3.65	20.69	38.45
	846.60	251	H	V	119.55	33.40	-10.02	3.67	19.71	38.45
				H	119.83	33.63	-10.02	3.67	19.94	38.45
			E1	V	121.26	35.10	-10.02	3.67	21.41	38.45
				H	116.84	30.64	-10.02	3.67	16.95	38.45
			E2	V	110.13	23.98	-10.02	3.67	10.29	38.45
				H	120.93	34.73	-10.02	3.67	21.04	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

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8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

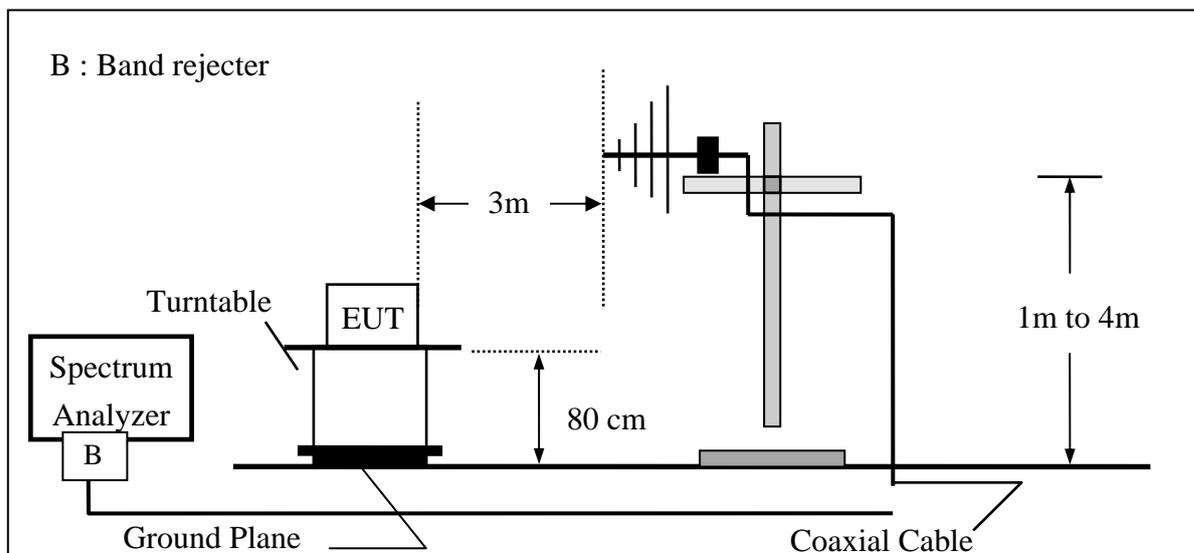
8.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a) 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):

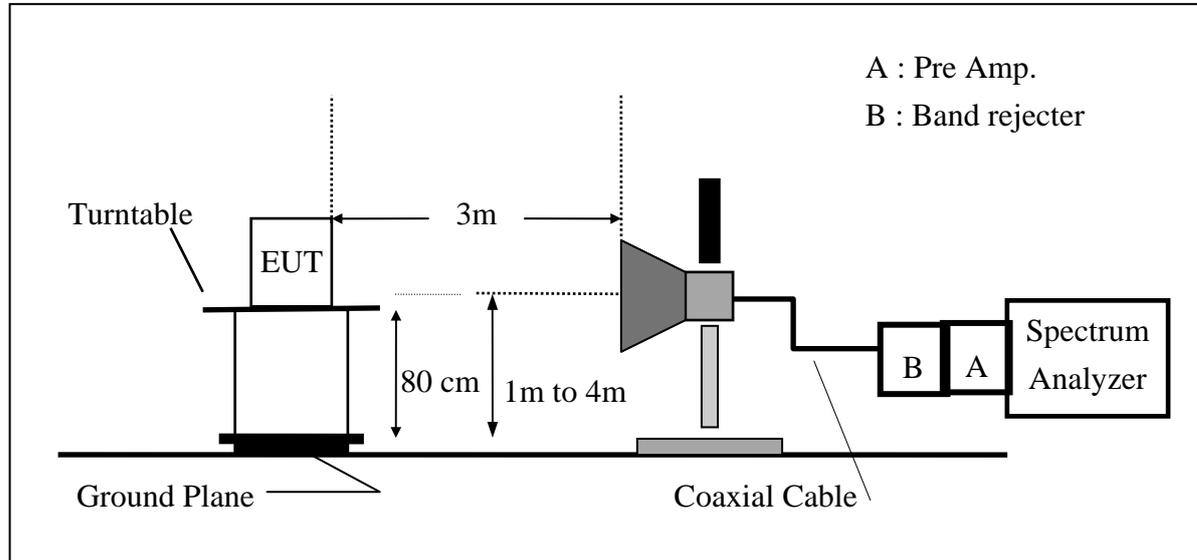
Radiated Emission Test Set-Up, Frequency Below 1000MHz



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Radiated Emission Test Set-UP Frequency Over 1 GHz



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 frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

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

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

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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:	Aug. 12, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Nick
Temperature	: 25	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)
196.84	47.70	V	-53.80	-7.84	1.70	-63.34	-13.00	-50.34
245.34	47.17	V	-52.90	-7.89	1.96	-62.75	-13.00	-49.75
270.56	45.46	V	-53.76	-7.90	2.06	-63.72	-13.00	-50.72
293.84	42.71	V	-55.74	-7.92	2.15	-65.81	-13.00	-52.81
367.56	43.15	V	-53.73	-7.65	2.41	-63.79	-13.00	-50.79
662.44	34.93	V	-54.12	-7.82	3.19	-65.13	-13.00	-52.13
1648.40	37.79	V	-66.79	9.29	5.23	-62.73	-13.00	-49.73
2472.60	---	V		10.08	6.53		-13.00	
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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Operation Mode : TX CH Low Mode
 Fundamental Frequency : 824.20 MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 2011
 Test By: Nick
 Pol: Hor

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)
196.84	53.16	H	-48.24	-7.84	1.70	-57.78	-13.00	-44.78
245.34	48.86	H	-50.59	-7.89	1.96	-60.44	-13.00	-47.44
270.56	48.15	H	-50.43	-7.90	2.06	-60.39	-13.00	-47.39
319.06	46.85	H	-50.63	-7.81	2.24	-60.69	-13.00	-47.69
367.56	46.04	H	-50.89	-7.65	2.41	-60.95	-13.00	-47.95
587.75	36.13	H	-54.82	-7.78	3.01	-65.62	-13.00	-52.62
1648.40	47.84	H	-56.56	9.29	5.23	-52.50	-13.00	-39.50
2472.60	---	H		10.08	6.53		-13.00	
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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Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 836.60 MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 2011
 Test By: Nick
 Pol: Ver

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)
196.84	46.84	V	-54.66	-7.84	1.70	-64.20	-13.00	-51.20
245.34	46.36	V	-53.71	-7.89	1.96	-63.56	-13.00	-50.56
270.56	44.90	V	-54.32	-7.90	2.06	-64.28	-13.00	-51.28
293.84	43.16	V	-55.29	-7.92	2.15	-65.36	-13.00	-52.36
367.56	42.54	V	-54.34	-7.65	2.41	-64.40	-13.00	-51.40
662.44	34.27	V	-54.78	-7.82	3.19	-65.79	-13.00	-52.79
1673.20	41.35	V	-63.21	9.36	5.27	-59.11	-13.00	-46.11
2509.80	---	V		10.09	6.58		-13.00	
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

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

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Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 836.60 MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	53.10	H	-48.30	-7.84	1.70	-57.84	-13.00	-44.84
245.34	48.72	H	-50.73	-7.89	1.96	-60.58	-13.00	-47.58
270.56	48.58	H	-50.00	-7.90	2.06	-59.96	-13.00	-46.96
319.06	46.33	H	-51.15	-7.81	2.24	-61.21	-13.00	-48.21
367.56	45.38	H	-51.55	-7.65	2.41	-61.61	-13.00	-48.61
587.75	36.28	H	-54.67	-7.78	3.01	-65.47	-13.00	-52.47
1673.20	49.91	H	-54.47	9.36	5.27	-50.37	-13.00	-37.37
2509.80	---	H		10.09	6.58		-13.00	
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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Operation Mode : TX CH High Mode
 Fundamental Frequency : 848.80 MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 2011
 Test By: Nick
 Pol: Ver

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)
196.84	47.80	V	-53.70	-7.84	1.70	-63.24	-13.00	-50.24
245.34	45.91	V	-54.16	-7.89	1.96	-64.01	-13.00	-51.01
270.56	45.19	V	-54.03	-7.90	2.06	-63.99	-13.00	-50.99
293.84	42.46	V	-55.99	-7.92	2.15	-66.06	-13.00	-53.06
367.56	43.09	V	-53.79	-7.65	2.41	-63.85	-13.00	-50.85
662.44	35.73	V	-53.32	-7.82	3.19	-64.33	-13.00	-51.33
1697.60	44.37	V	-60.17	9.44	5.31	-56.04	-13.00	-43.04
2546.40	---	V		10.20	6.63		-13.00	
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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Operation Mode : TX CH High Mode
 Fundamental Frequency : 848.80 MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 2011
 Test By: Nick
 Pol: Hor

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)
196.84	53.31	H	-48.09	-7.84	1.70	-57.63	-13.00	-44.63
245.34	48.56	H	-50.89	-7.89	1.96	-60.74	-13.00	-47.74
270.56	48.15	H	-50.43	-7.90	2.06	-60.39	-13.00	-47.39
293.84	47.07	H	-50.78	-7.92	2.15	-60.85	-13.00	-47.85
367.56	45.07	H	-51.86	-7.65	2.41	-61.92	-13.00	-48.92
587.75	35.76	H	-55.19	-7.78	3.01	-65.99	-13.00	-52.99
1697.60	50.59	H	-53.76	9.44	5.31	-49.63	-13.00	-36.63
2546.40	---	H		10.20	6.63		-13.00	
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
 Fundamental Frequency : 1850.20MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	47.79	V	-53.71	-7.84	1.70	-63.25	-13.00	-50.25
245.34	48.84	V	-51.23	-7.89	1.96	-61.08	-13.00	-48.08
270.56	49.12	V	-50.10	-7.90	2.06	-60.06	-13.00	-47.06
319.06	43.75	V	-54.26	-7.81	2.24	-64.32	-13.00	-51.32
367.56	43.37	V	-53.51	-7.65	2.41	-63.57	-13.00	-50.57
655.65	33.76	V	-55.22	-7.82	3.17	-66.21	-13.00	-53.21
3700.40	47.32	V	-50.61	12.61	8.31	-46.31	-13.00	-33.31
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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Operation Mode : TX CH Low Mode
 Fundamental Frequency : 1850.20MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	50.85	H	-50.55	-7.84	1.70	-60.09	-13.00	-47.09
245.34	47.88	H	-51.57	-7.89	1.96	-61.42	-13.00	-48.42
270.56	47.05	H	-51.53	-7.90	2.06	-61.49	-13.00	-48.49
319.06	42.35	H	-55.13	-7.81	2.24	-65.19	-13.00	-52.19
367.56	47.38	H	-49.55	-7.65	2.41	-59.61	-13.00	-46.61
662.44	35.15	H	-54.05	-7.82	3.19	-65.06	-13.00	-52.06
3700.40	38.57	H	-59.47	12.61	8.31	-55.17	-13.00	-42.17
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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Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	47.22	V	-54.28	-7.84	1.70	-63.82	-13.00	-50.82
245.34	48.85	V	-51.22	-7.89	1.96	-61.07	-13.00	-48.07
270.56	49.29	V	-49.93	-7.90	2.06	-59.89	-13.00	-46.89
293.84	44.07	V	-54.38	-7.92	2.15	-64.45	-13.00	-51.45
367.56	43.54	V	-53.34	-7.65	2.41	-63.40	-13.00	-50.40
652.74	32.94	V	-56.01	-7.81	3.17	-66.99	-13.00	-53.99
3760.00	33.60	V	-64.06	12.60	8.39	-59.84	-13.00	-46.84
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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Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	50.70	H	-50.70	-7.84	1.70	-60.24	-13.00	-47.24
245.34	47.91	H	-51.54	-7.89	1.96	-61.39	-13.00	-48.39
270.56	46.84	H	-51.74	-7.90	2.06	-61.70	-13.00	-48.70
293.84	42.55	H	-55.30	-7.92	2.15	-65.37	-13.00	-52.37
367.56	47.01	H	-49.92	-7.65	2.41	-59.98	-13.00	-46.98
662.44	33.95	H	-55.25	-7.82	3.19	-66.26	-13.00	-53.26
3760.00	37.24	H	-60.53	12.60	8.39	-56.32	-13.00	-43.32
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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Operation Mode : TX CH High Mode
 Fundamental Frequency : 1909.8 MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 2011
 Test By: Nick
 Pol: Ver

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)
196.84	47.40	V	-54.10	-7.84	1.70	-63.64	-13.00	-50.64
245.34	48.98	V	-51.09	-7.89	1.96	-60.94	-13.00	-47.94
270.56	49.35	V	-49.87	-7.90	2.06	-59.83	-13.00	-46.83
293.84	44.30	V	-54.15	-7.92	2.15	-64.22	-13.00	-51.22
367.56	43.82	V	-53.06	-7.65	2.41	-63.12	-13.00	-50.12
652.74	33.54	V	-55.41	-7.81	3.17	-66.39	-13.00	-53.39
3819.60	34.06	V	-63.33	12.60	8.47	-59.20	-13.00	-46.20
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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Operation Mode : TX CH High Mode
 Fundamental Frequency : 1909.8 MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 2011
 Test By: Nick
 Pol: Hor

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)
196.84	50.80	H	-50.60	-7.84	1.70	-60.14	-13.00	-47.14
245.34	47.80	H	-51.65	-7.89	1.96	-61.50	-13.00	-48.50
270.56	48.07	H	-50.51	-7.90	2.06	-60.47	-13.00	-47.47
319.06	43.15	H	-54.33	-7.81	2.24	-64.39	-13.00	-51.39
367.56	48.08	H	-48.85	-7.65	2.41	-58.91	-13.00	-45.91
662.44	33.90	H	-55.30	-7.82	3.19	-66.31	-13.00	-53.31
3819.60	35.84	H	-61.67	12.60	8.47	-57.53	-13.00	-44.53
5729.40	---	H		13.49	10.50		-13.00	
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 V Mode

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

Test Date: Aug. 12, 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)
196.84	48.52	V	-52.98	-9.98	1.70	-64.66	-13.00	-51.66
245.34	46.85	V	-53.22	-10.03	1.96	-65.21	-13.00	-52.21
270.56	49.92	V	-49.30	-10.04	2.06	-61.40	-13.00	-48.40
293.84	41.67	V	-56.78	-10.06	2.15	-68.99	-13.00	-55.99
367.56	44.32	V	-52.56	-9.79	2.41	-64.76	-13.00	-51.76
503.36	41.52	V	-52.51	-9.86	2.81	-65.18	-13.00	-52.18
1652.80	34.96	V	-69.62	9.30	5.23	-65.55	-13.00	-52.55
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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Operation Mode : TX CH Low Mode
 Fundamental Frequency : 826.4MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	50.76	H	-50.64	-9.98	1.70	-62.32	-13.00	-49.32
245.34	48.03	H	-51.42	-10.03	1.96	-63.41	-13.00	-50.41
270.56	51.27	H	-47.31	-10.04	2.06	-59.41	-13.00	-46.41
319.06	42.73	H	-54.75	-9.95	2.24	-66.95	-13.00	-53.95
367.56	44.25	H	-52.68	-9.79	2.41	-64.88	-13.00	-51.88
662.44	34.06	H	-55.14	-9.96	3.19	-68.29	-13.00	-55.29
1652.80	35.22	H	-69.18	9.30	5.23	-65.11	-13.00	-52.11
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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Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 836.6MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	48.25	V	-53.25	-9.98	1.70	-64.93	-13.00	-51.93
245.34	46.26	V	-53.81	-10.03	1.96	-65.80	-13.00	-52.80
270.56	51.00	V	-48.22	-10.04	2.06	-60.32	-13.00	-47.32
293.84	40.86	V	-57.59	-10.06	2.15	-69.80	-13.00	-56.80
367.56	44.77	V	-52.11	-9.79	2.41	-64.31	-13.00	-51.31
551.86	41.84	V	-50.54	-9.90	2.96	-63.41	-13.00	-50.41
1673.20	35.21	V	-69.35	9.36	5.27	-65.25	-13.00	-52.25
2509.80	---	V		10.09	6.58		-13.00	
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

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

Test Date: Aug. 12, 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)
196.84	51.47	H	-49.93	-9.98	1.70	-61.61	-13.00	-48.61
245.34	47.41	H	-52.04	-10.03	1.96	-64.03	-13.00	-51.03
270.56	51.34	H	-47.24	-10.04	2.06	-59.34	-13.00	-46.34
319.06	42.60	H	-54.88	-9.95	2.24	-67.08	-13.00	-54.08
367.56	43.78	H	-53.15	-9.79	2.41	-65.35	-13.00	-52.35
662.44	34.41	H	-54.79	-9.96	3.19	-67.94	-13.00	-54.94
1673.20	35.66	H	-68.72	9.36	5.27	-64.62	-13.00	-51.62
2509.80	---	H		10.09	6.58		-13.00	
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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Operation Mode : TX CH High Mode
 Fundamental Frequency : 846.6MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 2011
 Test By: Nick
 Pol: Ver

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)
196.84	47.63	V	-53.87	-9.98	1.70	-65.55	-13.00	-52.55
245.34	46.83	V	-53.24	-10.03	1.96	-65.23	-13.00	-52.23
270.56	50.57	V	-48.65	-10.04	2.06	-60.75	-13.00	-47.75
319.06	41.44	V	-56.57	-9.95	2.24	-68.77	-13.00	-55.77
367.56	45.09	V	-51.79	-9.79	2.41	-63.99	-13.00	-50.99
587.75	36.86	V	-53.43	-9.92	3.01	-66.36	-13.00	-53.36
1693.20	37.46	V	-67.08	9.42	5.30	-62.96	-13.00	-49.96
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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Operation Mode : TX CH High Mode
 Fundamental Frequency : 846.6MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	51.30	H	-50.10	-9.98	1.70	-61.78	-13.00	-48.78
245.34	47.55	H	-51.90	-10.03	1.96	-63.89	-13.00	-50.89
270.56	50.89	H	-47.69	-10.04	2.06	-59.79	-13.00	-46.79
319.06	42.45	H	-55.03	-9.95	2.24	-67.23	-13.00	-54.23
367.56	43.57	H	-53.36	-9.79	2.41	-65.56	-13.00	-52.56
662.44	33.41	H	-55.79	-9.96	3.19	-68.94	-13.00	-55.94
1693.20	35.56	H	-68.79	9.42	5.30	-64.67	-13.00	-51.67
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: HSDPA II Mode

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

Test Date: Aug. 12, 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)
196.84	47.84	V	-53.66	-7.84	1.70	-63.20	-13.00	-50.20
245.34	46.88	V	-53.19	-7.89	1.96	-63.04	-13.00	-50.04
270.56	51.34	V	-47.88	-7.90	2.06	-57.84	-13.00	-44.84
367.56	44.77	V	-52.11	-7.65	2.41	-62.17	-13.00	-49.17
429.64	42.00	V	-52.57	-7.68	2.60	-62.85	-13.00	-49.85
551.86	38.88	V	-53.50	-7.76	2.96	-64.23	-13.00	-51.23
3704.80	52.40	V	-45.51	12.61	8.31	-41.22	-13.00	-28.22
5557.20	---	V		13.24	10.33		-13.00	
7409.60	---	V		11.49	12.09		-13.00	
9262.00	---	V		11.92	13.51		-13.00	
11114.40	---	V		11.68	15.12		-13.00	
12966.80	---	V		13.62	16.61		-13.00	
14819.20	---	V		12.83	17.96		-13.00	
16671.60	---	V		15.87	19.15		-13.00	
18524.00	---	V		18.74	10.86		-13.00	

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

Test Date: Aug. 12, 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)
196.84	51.60	H	-49.80	-7.84	1.70	-59.34	-13.00	-46.34
245.34	47.56	H	-51.89	-7.89	1.96	-61.74	-13.00	-48.74
270.56	51.43	H	-47.15	-7.90	2.06	-57.11	-13.00	-44.11
319.06	43.05	H	-54.43	-7.81	2.24	-64.49	-13.00	-51.49
367.56	43.53	H	-53.40	-7.65	2.41	-63.46	-13.00	-50.46
662.44	34.56	H	-54.64	-7.82	3.19	-65.65	-13.00	-52.65
3704.80	47.58	H	-50.44	12.61	8.31	-46.15	-13.00	-33.15
5557.20	---	H		13.24	10.33		-13.00	
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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Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1880.0MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	47.13	V	-54.37	-7.84	1.70	-63.91	-13.00	-50.91
245.34	46.40	V	-53.67	-7.89	1.96	-63.52	-13.00	-50.52
270.56	50.62	V	-48.60	-7.90	2.06	-58.56	-13.00	-45.56
367.56	44.74	V	-52.14	-7.65	2.41	-62.20	-13.00	-49.20
478.14	43.13	V	-50.92	-7.71	2.74	-61.37	-13.00	-48.37
539.25	40.36	V	-52.48	-7.75	2.93	-63.16	-13.00	-50.16
3760.00	45.35	V	-52.31	12.60	8.39	-48.09	-13.00	-35.09
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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Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1880.0MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	52.08	H	-49.32	-7.84	1.70	-58.86	-13.00	-45.86
245.34	47.56	H	-51.89	-7.89	1.96	-61.74	-13.00	-48.74
270.56	51.27	H	-47.31	-7.90	2.06	-57.27	-13.00	-44.27
319.06	42.88	H	-54.60	-7.81	2.24	-64.66	-13.00	-51.66
367.56	44.03	H	-52.90	-7.65	2.41	-62.96	-13.00	-49.96
639.16	34.58	H	-55.35	-7.81	3.13	-66.29	-13.00	-53.29
3760.00	43.38	H	-54.39	12.60	8.39	-50.18	-13.00	-37.18
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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Operation Mode : TX CH High Mode
 Fundamental Frequency : 1907.6MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 2011
 Test By: Nick
 Pol: Ver

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)
196.84	48.17	V	-53.33	-7.84	1.70	-62.87	-13.00	-49.87
245.34	47.07	V	-53.00	-7.89	1.96	-62.85	-13.00	-49.85
270.56	51.02	V	-48.20	-7.90	2.06	-58.16	-13.00	-45.16
367.56	44.56	V	-52.32	-7.65	2.41	-62.38	-13.00	-49.38
418.00	42.36	V	-52.57	-7.67	2.56	-62.81	-13.00	-49.81
539.25	40.64	V	-52.20	-7.75	2.93	-62.88	-13.00	-49.88
3815.20	54.62	V	-42.79	12.60	8.46	-38.65	-13.00	-25.65
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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Operation Mode : TX CH High Mode
 Fundamental Frequency : 1907.6MHz
 Temperature : 25
 Humidity : 65%

Test Date: Aug. 12, 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)
196.84	51.71	H	-49.69	-7.84	1.70	-59.23	-13.00	-46.23
245.34	47.49	H	-51.96	-7.89	1.96	-61.81	-13.00	-48.81
270.56	50.98	H	-47.60	-7.90	2.06	-57.56	-13.00	-44.56
319.06	42.99	H	-54.49	-7.81	2.24	-64.55	-13.00	-51.55
367.56	43.43	H	-53.50	-7.65	2.41	-63.56	-13.00	-50.56
607.15	35.29	H	-55.27	-7.79	3.05	-66.11	-13.00	-53.11
3815.20	50.12	H	-47.41	12.60	8.46	-43.27	-13.00	-30.27
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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