

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

CLASS II PC REPORT

OF

Product Name: HSPA+ Module

Brand Name: Huawei

Model Name: EM820U

Model Difference: N/A

FCC ID: QISEM820U

Report No.: EH/2010/80003

Issue Date: Aug. 09, 2010

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

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

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
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VERIFICATION OF COMPLIANCE

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

Product Name: HSPA+ Module

Brand Name: Huawei

Model No.: EM820U

Model Difference: N/A

FCC ID: QISEM820U

File Number: EH/2010/80003

Date of test: Aug. 04, 2010 ~ Aug. 07, 2010

Date of EUT Received: Aug. 04, 2010

We hereby certify that:

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

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

Test By:



Date:

Aug. 09, 2010

Jason Wu / Asst. Supervisor

Prepared By:



Date:

Aug. 09, 2010

Alex Hsieh / Sr. Engineer

Approved By:



Date:

Aug. 09, 2010

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Aug. 09, 2010	Initial creation of document
01	Aug. 20, 2010	Add EDGE 850/1900 and WCDMA HSPA band II and V ERP/EIRP power and remove 3 Time slot and original data should be GMSK not 8-PSK.
02	Aug. 23, 2010	Revise antenna spec on page 5

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GENERAL PRODUCT INFORMATION

General Information of Notebook

WWAN Module Name:	EM820U			
Brand Name:	DELL			
Model No of the host	P04T-P04T001			
Model Difference of Host:	N/A			
Marketing Name:	Inspiron mini 1012			
Model No. For WWAN Module:	FCC: EM820U			
Antenna Spec:	Part number: Samos	SE-024B0-ECM10 (WWAN Main)	824~960MHz	Gain: 0.70 dBi
			1700~2170MHz	Gain: 2.07 dBi
	SE-024A0-ECM10 (WWAN Aux)	824~960MHz	Gain: -3.63 dBi	
		1700~2170MHz	Gain: -1.68 dBi	
Power Supply:	11.1 Vdc Li-Ion battery or 19Vdc from AC/DC adapter			
	Battery:	Model No.: CMP3D, Supplier: DELL		
	Adapter :	Model: WA-30B19U, supplier: APD		

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GSM / WCDMA:

Cellular Phone Standards Frequency Range:	GSM / GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33 dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27 dBm
	GSM / GPRS 900, Class 12	880.2MHz – 914.8MH	33 dBm
	EDGE 900, Class 12	880.2MHz – 914.8MH	27 dBm
	GSM / GPRS 1800, Class 12	1710.2MHz-1784.8MHz	30 dBm
	EDGE 1800, Class 12	1710.2MHz-1784.8MHz	26 dBm
	GSM / GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30 dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA /HSPA + Band I	1922.4MHz – 1977.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz –1752.6MHz	24 dBm
WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24 dBm	
IMEI:	354282040000602		
Hardware Version:	N/A		
Software Version:	N/A		
WWAN module FCC ID:	QISEM820U		
Class II Permissive change:	HSPA+ Module (EM820U) installed in an DELL Inspiron mini 1012 series portable computer		

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

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

This submittal(s) (test report) is intended for FCC ID: **QISEM820U** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part 27 of the FCC CFR 47 Rules.

1.2. Test Methodology

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

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

1.3. Test Facility

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

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

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

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 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):

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

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2.4. Measurement Equipment Used:

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	01/23/2010	01/22/2012
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/13/2012
Radio Communication Analyzer	R&S	CMW500	101582	07/12/2010	07/11/2011
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2010	01/04/2011
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2010	01/04/2011
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2010	04/13/2012
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2010	02/04/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2010	07/04/2011
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011
DC Power Supply	HP	6038A	2929A-07548	06/27/2010	06/26/2011
DC Power Supply	Topward	3303D	981327	10/26/2009	10/25/2010

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT 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	9160-3136	11/15/2009	11/14/2010
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	06/11/2010	06/10/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2009	11/29/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/12/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

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2.5. Configuration of Tested System

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

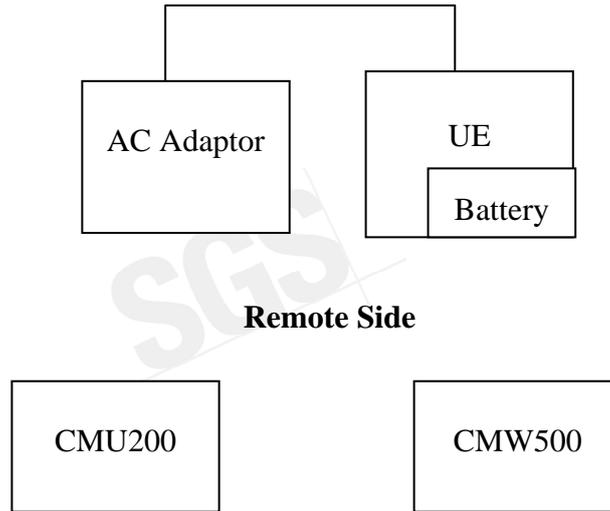


Table 2-1 Equipment Used in Tested System

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
2.	Universal Radio Communication Tester	R&S	CMW500	101582	shielded	Un-shielded

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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) §27.50(d)(2)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(g)	Field Strength of Spurious Radiation	Compliant

Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	30.96	ERP	1.247
GPRS 1900 Band	28.19	EIRP	0.659
EDGE 850 Band	27.03	ERP	0.505
EDGE 1900 Band	24.29	EIRP	0.269
WCDMA Band II	19.72	EIRP	0.094
WCDMA Band IV	21.92	EIRP	0.156
WCDMA Band V	19.37	EIRP	0.086
HSUPA Band II	21.02	EIRP	0.126
HSUPA Band V	19.10	EIRP	0.081

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of ERP/EIRP power and spurious radiation emission were measured as EUT stand up position (E2 plan as defined by SGS testing lab) for GPRS 850 / 1900 bands and WCDMA Band IV were reported which has worst data.

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5. RF POWER OUTPUT MEASUREMENT

5.1. Standard Applicable:

According to FCC §2.1046.

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

FCC 24.232(c) Peak Power Measurement limited to 2W

Part 27, 50(d) (2) mobile / portable stations are limited to 1W

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

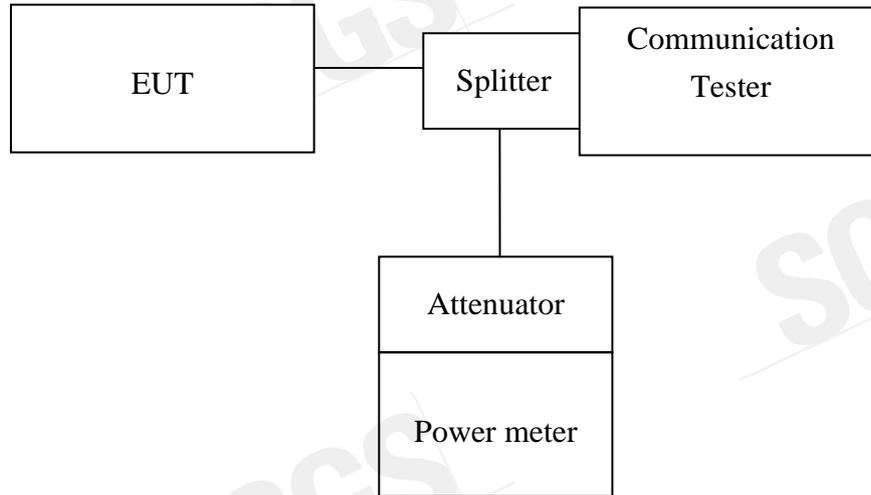
Maximum Output Powers for HSUPA

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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5.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3. Measurement Procedure:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. The Procedure of KDB941225 KDB941125(SAR Measurement Procedures for 3G devices, WCDMA/HSDPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing

5.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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5.5. Measurement Result:

5.5.1. RF Conducted Output Power

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

Result:

Fre- quency (MHz)	CH	1 Time Slot				2 Time Slot				4 Time Slot			
		GMSK Mode		8-PSK Mode		GMSK Mode		8-PSK Mode		GMSK Mode		8-PSK Mode	
		Peak Power	AV Power	Peak Power	AV Power	Peak Power	AV Power	Peak Power	AV Power	Peak Power	AV Power	Peak Power	AV Power
		(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
824.2	128	32.90	32.80	29.60	26.30	32.80	32.70	29.60	26.30	32.80	32.70	29.60	26.30
836.6	190	32.80	32.70	29.50	26.20	32.70	32.60	29.40	26.20	32.70	32.60	29.40	26.20
848.8	251	32.60	32.50	29.30	26.10	32.60	32.50	29.30	26.10	32.50	32.40	29.30	26.10
1850.2	512	30.00	29.80	28.80	25.60	29.90	29.80	28.70	25.60	29.90	29.80	28.70	25.60
1880.0	661	29.90	29.70	28.60	25.40	29.80	29.70	28.50	25.40	29.80	29.70	28.50	25.40
1909.8	810	29.60	29.50	28.30	25.10	29.60	29.40	28.30	25.10	29.50	29.40	28.30	25.10

5.5.1.2.: WCDMA mode

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

Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band II	1852.4	9262	26.47	23.60
	1880.0	9400	26.84	23.58
	1907.6	9538	26.30	23.59

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

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band IV	1712.4	1312	26.80	24.05
	1732.6	1413	26.68	23.72
	1752.6	1513	26.72	23.74

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band V	826.4	4132	26.66	23.63
	836.6	4183	26.77	23.65
	846.6	4233	26.96	23.82

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5.5.1.3.:HSDPA 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 RMS 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.

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA B2	1	23.89	23.84	23.86	20.3dBm – 25.7dBm	Pass
	2	23.48	23.44	23.44	20.3dBm – 25.7dBm	Pass
	3	23.41	23.39	23.33	19.8dBm – 25.7dBm	Pass
	4	23.48	23.4	23.45	19.8dBm – 25.7dBm	Pass

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Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel				
		1312	1413	1513		
HSDPA B4	1	24.29	24.00	23.99	20.3dBm – 25.7dBm	Pass
	2	23.90	23.55	23.63	20.3dBm – 25.7dBm	Pass
	3	23.85	23.58	23.40	19.8dBm – 25.7dBm	Pass
	4	23.85	23.51	23.55	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel				
		4132	4183	4233		
HSDPA B5	1	23.85	23.90	24.01	20.3dBm – 25.7dBm	Pass
	2	23.56	23.54	23.69	20.3dBm – 25.7dBm	Pass
	3	23.39	23.42	23.52	19.8dBm – 25.7dBm	Pass
	4	23.44	23.46	23.58	19.8dBm – 25.7dBm	Pass

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5.5.1.3.:HSPA(HSDPA & HSUPA) 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 RMS 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	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA B2	1	23.52	23.56	23.53	18.8dBm – 25.7dBm	Pass
	2	21.57	21.63	21.57	16.8dBm – 25.7dBm	Pass
	3	22.58	22.58	22.61	17.8dBm – 25.7dBm	Pass
	4	21.70	21.68	21.61	16.8dBm – 25.7dBm	Pass
	5	23.41	23.42	23.44	18.8dBm – 25.7dBm	Pass

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Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSUPA B4	1	23.35	23.67	23.70	18.8dBm – 25.7dBm	Pass
	2	21.41	21.70	21.78	16.8dBm – 25.7dBm	Pass
	3	22.44	22.74	22.73	17.8dBm – 25.7dBm	Pass
	4	21.54	21.84	21.76	16.8dBm – 25.7dBm	Pass
	5	23.21	23.52	23.52	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSUPA B5	1	23.59	23.58	23.74	18.8dBm – 25.7dBm	Pass
	2	21.65	21.66	21.78	16.8dBm – 25.7dBm	Pass
	3	22.63	22.64	22.82	17.8dBm – 25.7dBm	Pass
	4	21.70	21.72	21.86	16.8dBm – 25.7dBm	Pass
	5	23.45	23.41	23.63	18.8dBm – 25.7dBm	Pass

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6. ERP, EIRP MEASUREMENT

6.1. Standard Applicable:

According to FCC §2.1046

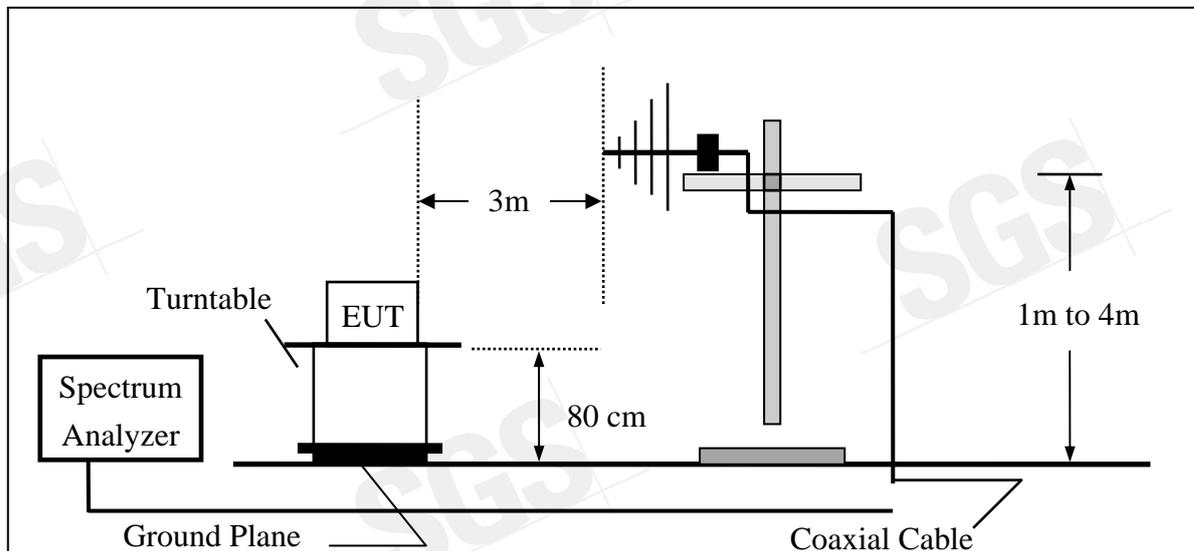
FCC 22.913(a) Mobile station are limited to 7W ERP.

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

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

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

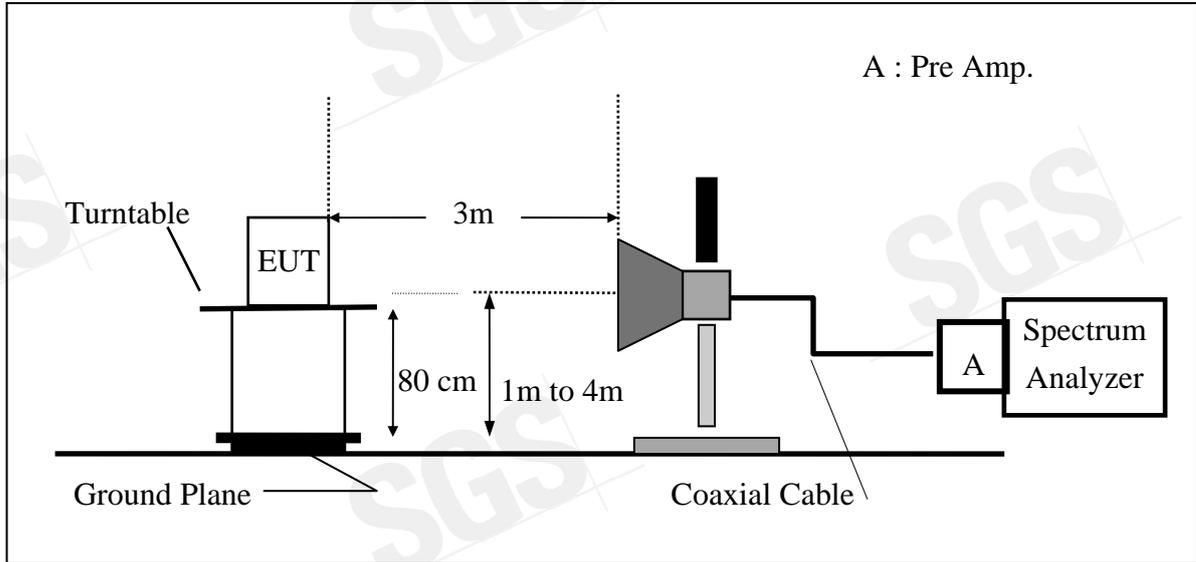
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



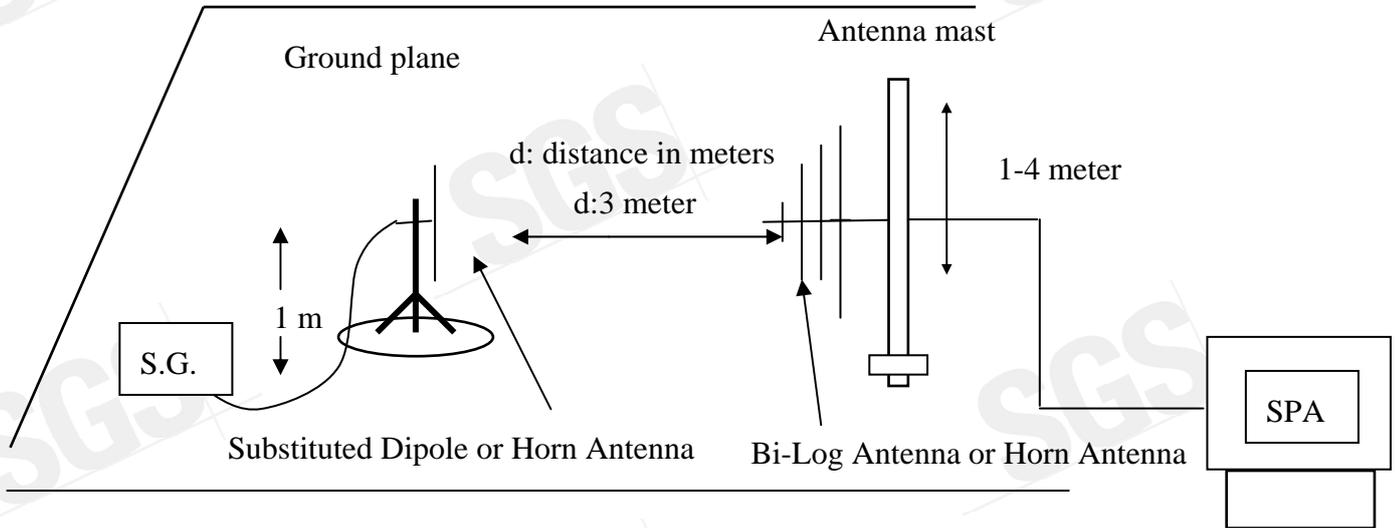
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3. 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:

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

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

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5. Measurement Result:

EUT Mode	Frequency (MHz)	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	E2	V	124.74	38.35	-7.87	3.62	26.85	38.45
				H	125.66	39.39	-7.87	3.62	27.89	38.45
	836.60	190	E2	V	124.43	38.18	-7.88	3.65	26.65	38.45
				H	127.65	41.42	-7.88	3.65	29.89	38.45
	848.80	251	E2	V	125.73	39.61	-7.88	3.68	28.05	38.45
				H	128.71	42.52	-7.88	3.68	30.96	38.45

Remark :

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

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	E2	V	124.83	20.44	9.90	5.56	24.78	33.00
				H	127.53	23.35	9.90	5.84	27.41	33.00
	1880.00	661	E2	V	125.23	20.87	9.99	5.61	25.25	33.00
				H	127.96	23.82	9.99	5.61	28.19	33.00
	1909.80	810	E2	V	124.38	20.05	10.08	5.66	24.47	33.00
				H	126.93	22.82	10.08	5.66	27.24	33.00

Remark :

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

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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	E2	V	120.64	34.25	-7.87	3.62	22.75	38.45
				H	121.99	35.72	-7.87	3.62	24.22	38.45
	836.60	190	E2	V	121.07	34.82	-7.88	3.65	23.29	38.45
				H	123.32	37.09	-7.88	3.65	25.56	38.45
	848.80	251	E2	V	122.37	36.25	-7.88	3.68	24.69	38.45
				H	124.78	38.59	-7.88	3.68	27.03	38.45

Remark :

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

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	E2	V	120.76	16.37	9.90	5.56	20.71	33.00
				H	123.27	19.09	9.90	5.84	23.15	33.00
	1880.00	661	E2	V	121.63	17.27	9.99	5.61	21.65	33.00
				H	124.01	19.87	9.99	5.61	24.24	33.00
	1909.80	810	E2	V	121.68	17.35	10.08	5.66	21.77	33.00
				H	123.98	19.87	10.08	5.66	24.29	33.00

Remark :

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

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Measurement Result:

EUT Mode	Frequency (MHz)	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	E2	V	116.54	12.02	9.48	5.33	16.16	33.00
				H	119.50	15.17	9.90	5.84	19.23	33.00
	1880.00	9400	E2	V	115.96	11.46	9.54	5.36	15.63	33.00
				H	119.86	15.55	9.54	5.36	19.72	33.00
	1907.60	9538	E2	V	114.11	9.63	9.61	5.40	13.83	33.00
				H	118.79	14.50	9.61	5.40	18.71	33.00

Remark :

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

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 IV	1712.4	1312	E2	V	114.45	9.93	9.48	5.33	14.07	33.00
				H	118.04	13.71	9.90	5.84	17.77	33.00
	1732.6	1413	E2	V	117.21	12.71	9.54	5.36	16.88	33.00
				H	119.79	15.48	9.54	5.36	19.65	33.00
	1752.6	1513	E2	V	118.02	13.54	9.61	5.40	17.74	33.00
				H	122.00	17.71	9.61	5.40	21.92	33.00

Remark :

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBUV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
WCDMA Band V	826.40	4132	E2	V	116.20	29.84	-7.88	3.63	18.33	38.45
				H	112.31	26.05	-7.88	3.63	14.55	38.45
	836.60	4183	E2	V	116.14	29.88	-7.88	3.65	18.35	38.45
				H	114.43	28.20	-7.88	3.65	16.67	38.45
	846.60	4233	E2	V	117.07	30.92	-7.88	3.67	19.37	38.45
				H	116.97	30.77	-7.88	3.67	19.22	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)
HSUPA Band II	1852.40	9262	E2	V	118.25	13.73	9.48	5.33	17.87	33.00
				H	121.29	16.96	9.90	5.84	21.02	33.00
	1880.00	9400	E2	V	116.31	11.81	9.54	5.36	15.98	33.00
				H	120.10	15.79	9.54	5.36	19.96	33.00
	1907.60	9538	E2	V	114.56	10.08	9.61	5.40	14.28	33.00
				H	119.64	15.35	9.61	5.40	19.56	33.00

Remark :

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

RBW= 5MHz , VBW= 8MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSUPA Band V	826.40	4132	E2	V	116.04	29.68	-7.88	3.63	18.17	38.45
				H	112.43	26.17	-7.88	3.63	14.67	38.45
	836.60	4183	E2	V	116.32	30.06	-7.88	3.65	18.53	38.45
				H	114.26	28.03	-7.88	3.65	16.50	38.45
	846.60	4233	E2	V	116.80	30.65	-7.88	3.67	19.10	38.45
				H	116.69	30.49	-7.88	3.67	18.94	38.45

Remark :

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

RBW= 5MHz , VBW= 8MHz

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7. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

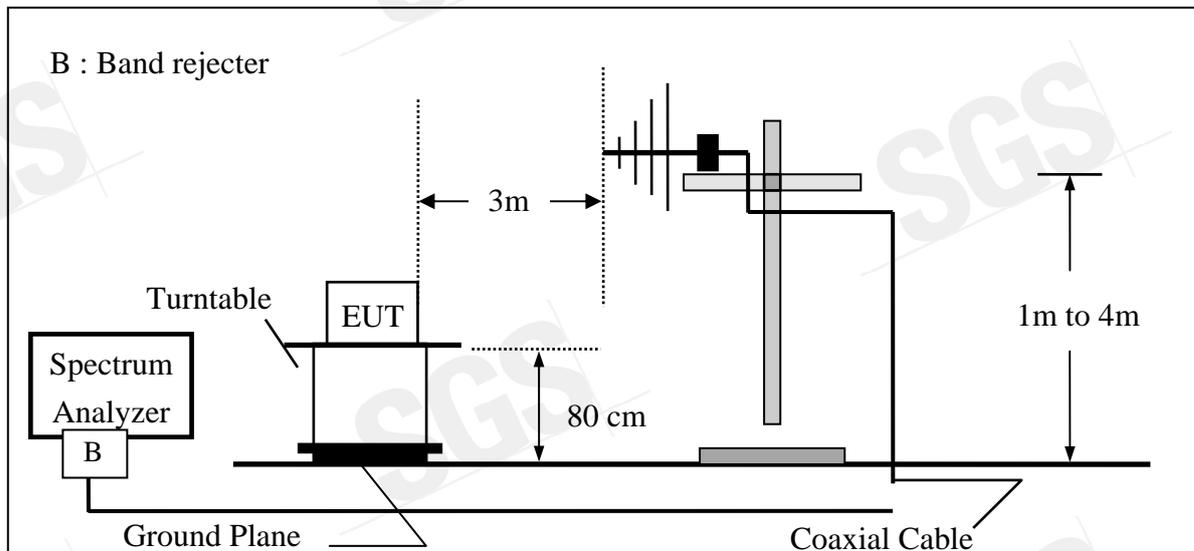
7.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(g) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

7.2. EUT Setup (Block Diagram of Configuration):

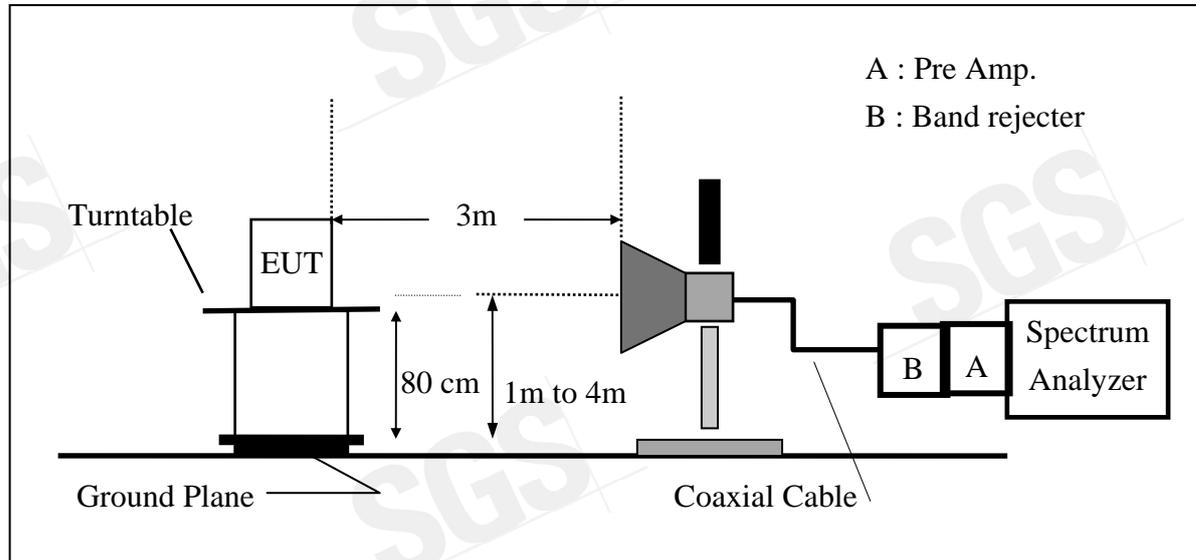
Radiated Emission Test Set-Up, Frequency Below 1000MHz



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Radiated Emission Test Set-UP Frequency Over 1 GHz



7.3. Measurement Procedure:

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

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

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

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

7.5. Measurement Result:

Refer to 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. 06, 2010
Fundamental Frequency	: 824.20 MHz	Test By:	Jason
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
106.63	49.63	V	-51.68	-7.77	1.39	-60.83	-13.00	-47.83
245.34	43.34	V	-56.73	-7.89	1.96	-66.58	-13.00	-53.58
368.53	46.35	V	-50.49	-7.65	2.42	-60.55	-13.00	-47.55
431.58	45.92	V	-48.59	-7.69	2.60	-58.88	-13.00	-45.88
823.98	79.55	V	-6.84	-7.87	3.62	-18.34	-13.00	-5.34
1648.40	42.87	V	-61.71	9.29	5.23	-57.65	-13.00	-44.65
2472.60	58.50	V	-42.51	10.08	6.53	-38.96	-13.00	-25.96
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	36.80	V	-48.73	12.05	11.30	-47.98	-13.00	-34.98
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Low Mode	Test Date:	Aug. 06, 2010
Fundamental Frequency	: 824.20 MHz	Test By:	Jason
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	46.82	H	-55.99	-7.76	1.37	-65.12	-13.00	-52.12
191.99	40.33	H	-60.70	-7.83	1.69	-70.22	-13.00	-57.22
327.79	46.14	H	-51.26	-7.76	2.28	-61.30	-13.00	-48.30
426.73	42.11	H	-52.96	-7.68	2.59	-63.23	-13.00	-50.23
550.89	39.43	H	-52.27	-7.76	2.96	-62.99	-13.00	-49.99
823.98	78.59	H	-7.68	-7.87	3.62	-19.18	-13.00	-6.18
1648.40	47.56	H	-56.84	9.29	5.23	-52.78	-13.00	-39.78
2472.60	55.44	H	-45.47	10.08	6.53	-41.92	-13.00	-28.92
3296.80	---	H		12.17	7.71		-13.00	
4121.00	---	H		12.61	8.86		-13.00	
4945.20	39.21	H	-53.43	12.65	9.74	-50.51	-13.00	-37.51
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

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

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	50.61	V	-51.15	-7.76	1.37	-60.27	-13.00	-47.27
308.39	44.89	V	-53.26	-7.87	2.20	-63.33	-13.00	-50.33
327.79	45.99	V	-51.92	-7.76	2.28	-61.96	-13.00	-48.96
431.58	42.81	V	-51.70	-7.69	2.60	-61.99	-13.00	-48.99
1673.20	44.98	V	-59.58	9.36	5.27	-55.48	-13.00	-42.48
2509.80	62.39	V	-38.39	10.09	6.58	-34.89	-13.00	-21.89
3346.40	38.06	V	-60.80	12.28	7.79	-56.32	-13.00	-43.32
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Aug. 06, 2010
Fundamental Frequency	: 836.60 MHz	Test By:	Jason
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	45.18	H	-57.33	-7.76	1.38	-66.47	-13.00	-53.47
327.79	46.99	H	-50.41	-7.76	2.28	-60.45	-13.00	-47.45
368.53	44.85	H	-52.06	-7.65	2.42	-62.13	-13.00	-49.13
431.58	41.40	H	-53.43	-7.69	2.60	-63.72	-13.00	-50.72
1329.00	40.61	H	-64.74	7.86	3.28	-60.16	-13.00	-47.16
1673.20	43.77	H	-60.61	9.36	5.27	-56.51	-13.00	-43.51
2509.80	58.81	H	-41.89	10.09	6.58	-38.39	-13.00	-25.39
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High Mode	Test Date:	Aug. 06, 2010
Fundamental Frequency	: 848.80 MHz	Test By:	Jason
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	50.81	V	-50.95	-7.76	1.37	-60.07	-13.00	-47.07
305.48	46.72	V	-51.46	-7.89	2.19	-61.54	-13.00	-48.54
429.64	43.27	V	-51.30	-7.68	2.60	-61.58	-13.00	-48.58
487.84	41.91	V	-52.18	-7.72	2.77	-62.66	-13.00	-49.66
552.83	42.78	V	-49.54	-7.76	2.96	-60.27	-13.00	-47.27
849.03	79.86	V	-6.26	-7.88	3.68	-17.82	-13.00	-4.82
1329.00	41.12	V	-64.32	7.86	3.28	-59.74	-13.00	-46.74
1697.60	44.81	V	-59.73	9.44	5.31	-55.60	-13.00	-42.60
2546.40	61.35	V	-39.29	10.20	6.63	-35.73	-13.00	-22.73
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH High Mode
 Fundamental Frequency : 848.80 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	46.04	H	-56.77	-7.76	1.37	-65.90	-13.00	-52.90
245.34	41.45	H	-58.00	-7.89	1.96	-67.85	-13.00	-54.85
329.73	45.83	H	-51.56	-7.75	2.28	-61.59	-13.00	-48.59
431.58	40.65	H	-54.18	-7.69	2.60	-64.47	-13.00	-51.47
849.00	82.84	H	-3.35	-7.88	3.68	-14.91	-13.00	-1.91
1697.60	48.28	H	-56.07	9.44	5.31	-51.94	-13.00	-38.94
2546.40	65.81	H	-34.79	10.20	6.63	-31.23	-13.00	-18.23
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

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

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
92.08	49.97	V	-52.96	-7.75	1.29	-62.00	-13.00	-49.00
368.53	47.03	V	-49.81	-7.65	2.42	-59.87	-13.00	-46.87
431.58	45.39	V	-49.12	-7.69	2.60	-59.41	-13.00	-46.41
1329.00	39.30	V	-66.14	7.86	3.28	-61.56	-13.00	-48.56
1850.00	77.73	V	-26.66	9.90	5.56	-22.32	-13.00	-9.32
3700.40	34.58	V	-63.35	12.61	8.31	-59.05	-13.00	-46.05
5550.60	35.16	V	-55.68	13.23	10.33	-52.78	-13.00	-39.78
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

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

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	45.14	H	-57.67	-7.76	1.37	-66.80	-13.00	-53.80
327.79	45.72	H	-51.68	-7.76	2.28	-61.72	-13.00	-48.72
431.58	42.02	H	-52.81	-7.69	2.60	-63.10	-13.00	-50.10
550.89	40.11	H	-51.59	-7.76	2.96	-62.31	-13.00	-49.31
1850.00	80.94	H	-23.24	9.90	5.56	-18.90	-13.00	-5.90
3700.40	36.91	H	-61.13	12.61	8.31	-56.83	-13.00	-43.83
5550.60	35.59	H	-55.46	13.23	10.33	-52.56	-13.00	-39.56
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Aug. 06, 2010
Fundamental Frequency	: 1880MHz	Test By:	Jason
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
92.08	48.44	V	-54.49	-7.75	1.29	-63.53	-13.00	-50.53
245.34	45.25	V	-54.81	-7.89	1.96	-64.66	-13.00	-51.66
327.79	46.00	V	-51.91	-7.76	2.28	-61.95	-13.00	-48.95
431.58	43.57	V	-50.94	-7.69	2.60	-61.23	-13.00	-48.23
3760.00	35.85	V	-61.81	12.60	8.39	-57.59	-13.00	-44.59
5640.00	34.84	V	-55.74	13.36	10.41	-52.79	-13.00	-39.79
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Aug. 06, 2010
Fundamental Frequency	: 1880MHz	Test By:	Jason
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	45.19	H	-57.62	-7.76	1.37	-66.75	-13.00	-53.75
327.79	45.53	H	-51.87	-7.76	2.28	-61.91	-13.00	-48.91
431.58	41.83	H	-53.00	-7.69	2.60	-63.29	-13.00	-50.29
552.83	39.93	H	-51.73	-7.76	2.96	-62.46	-13.00	-49.46
3760.00	36.53	H	-61.24	12.60	8.39	-57.03	-13.00	-44.03
5640.00	36.95	H	-53.80	13.36	10.41	-50.85	-13.00	-37.85
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

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

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
92.08	49.21	V	-53.72	-7.75	1.29	-62.76	-13.00	-49.76
140.58	45.84	V	-52.32	-7.79	1.55	-61.66	-13.00	-48.66
327.79	46.82	V	-51.09	-7.76	2.28	-61.13	-13.00	-48.13
552.83	44.01	V	-48.31	-7.76	2.96	-59.04	-13.00	-46.04
1910.00	77.80	V	-26.53	10.08	5.66	-22.11	-13.00	-9.11
3819.60	51.19	V	-46.20	12.60	8.47	-42.07	-13.00	-29.07
5729.40	55.50	V	-34.82	13.49	10.50	-31.82	-13.00	-18.82
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

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

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	45.22	H	-57.59	-7.76	1.37	-66.72	-13.00	-53.72
327.79	46.19	H	-51.21	-7.76	2.28	-61.25	-13.00	-48.25
426.73	40.96	H	-54.11	-7.68	2.59	-64.38	-13.00	-51.38
552.83	39.77	H	-51.89	-7.76	2.96	-62.62	-13.00	-49.62
1910.01	80.82	H	-23.29	10.08	5.66	-18.87	-13.00	-5.87
3819.60	54.16	H	-43.35	12.60	8.47	-39.21	-13.00	-26.21
5729.40	57.77	H	-32.68	13.49	10.50	-29.69	-13.00	-16.69
7639.20	39.08	H	-41.35	11.40	12.27	-42.22	-13.00	-29.22
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	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH Low Mode
 Fundamental Frequency : 1712.40MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	51.66	V	-49.83	-7.76	1.38	-58.97	-13.00	-45.97
327.79	46.16	V	-51.75	-7.76	2.28	-61.79	-13.00	-48.79
431.58	44.18	V	-50.33	-7.69	2.60	-60.62	-13.00	-47.62
552.83	44.43	V	-47.89	-7.76	2.96	-58.62	-13.00	-45.62
671.14	45.52	V	-43.62	-7.83	3.21	-54.67	-13.00	-41.67
861.29	44.32	V	-41.48	-7.90	3.70	-53.08	-13.00	-40.08
1710.00	68.13	V	-36.39	9.47	5.33	-32.25	-13.00	-19.25
3424.80	38.01	V	-60.84	12.45	7.91	-56.30	-13.00	-43.30
5137.20	33.04	V	-58.83	12.79	9.92	-55.97	-13.00	-42.97
6849.60	---	V		11.80	11.54		-13.00	
8562.00	---	V		11.73	12.97		-13.00	
10274.40	---	V		11.85	14.50		-13.00	
11986.80	---	V		13.15	15.91		-13.00	
13699.20	---	V		12.32	17.04		-13.00	
15411.60	---	V		15.69	18.36		-13.00	
17124.00	---	V		14.68	19.47		-13.00	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH Low Mode
 Fundamental Frequency : 1712.40MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	45.55	H	-56.96	-7.76	1.38	-66.10	-13.00	-53.10
327.79	45.68	H	-51.72	-7.76	2.28	-61.76	-13.00	-48.76
368.53	43.15	H	-53.76	-7.65	2.42	-63.83	-13.00	-50.83
552.83	40.81	H	-50.85	-7.76	2.96	-61.58	-13.00	-48.58
676.99	40.04	H	-48.55	-7.84	3.23	-59.62	-13.00	-46.62
861.29	39.29	H	-46.60	-7.90	3.70	-58.20	-13.00	-45.20
1710.00	70.65	H	-33.68	9.47	5.33	-29.54	-13.00	-16.54
3424.80	40.50	H	-58.50	12.45	7.91	-53.97	-13.00	-40.97
5137.20	34.22	H	-57.83	12.79	9.92	-54.96	-13.00	-41.96
6849.60	---	H		11.80	11.54		-13.00	
8562.00	---	H		11.73	12.97		-13.00	
10274.40	---	H		11.85	14.50		-13.00	
11986.80	---	H		13.15	15.91		-13.00	
13699.20	---	H		12.32	17.04		-13.00	
15411.60	---	H		15.69	18.36		-13.00	
17124.00	---	H		14.68	19.47		-13.00	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1732.6MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	51.56	V	-49.93	-7.76	1.38	-59.07	-13.00	-46.07
366.59	46.05	V	-50.87	-7.65	2.41	-60.93	-13.00	-47.93
431.58	43.73	V	-50.78	-7.69	2.60	-61.07	-13.00	-48.07
552.83	44.98	V	-47.34	-7.76	2.96	-58.07	-13.00	-45.07
672.14	46.35	V	-42.80	-7.83	3.22	-53.85	-13.00	-40.85
861.29	43.59	V	-42.21	-7.90	3.70	-53.81	-13.00	-40.81
3464.80	34.62	V	-64.22	12.53	7.98	-59.66	-13.00	-46.66
5197.20	34.35	V	-57.37	12.85	9.98	-54.51	-13.00	-41.51
6929.60	---	V		11.72	11.61		-13.00	
8662.00	---	V		11.77	13.05		-13.00	
10394.40	---	V		11.75	14.59		-13.00	
12126.80	---	V		13.35	16.03		-13.00	
13859.20	---	V		11.98	17.16		-13.00	
15591.60	---	V		16.35	18.47		-13.00	
17324.00	---	V		14.02	19.62		-13.00	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH Mid Mode
 Fundamental Frequency : 1732.6MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	46.31	H	-56.20	-7.76	1.38	-65.34	-13.00	-52.34
327.79	46.61	H	-50.79	-7.76	2.28	-60.83	-13.00	-47.83
426.73	38.94	H	-56.13	-7.68	2.59	-66.40	-13.00	-53.40
550.89	39.78	H	-51.92	-7.76	2.96	-62.64	-13.00	-49.64
672.14	39.81	H	-48.98	-7.83	3.22	-60.03	-13.00	-47.03
861.29	39.71	H	-46.18	-7.90	3.70	-57.78	-13.00	-44.78
3464.80	35.21	H	-63.77	12.53	7.98	-59.21	-13.00	-46.21
5197.20	33.79	H	-58.12	12.85	9.98	-55.26	-13.00	-42.26
6929.60	---	H		11.72	11.61		-13.00	
8662.00	---	H		11.77	13.05		-13.00	
10394.40	---	H		11.75	14.59		-13.00	
12126.80	---	H		13.35	16.03		-13.00	
13859.20	---	H		11.98	17.16		-13.00	
15591.60	---	H		16.35	18.47		-13.00	
17324.00	---	H		14.02	19.62		-13.00	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH High Mode
 Fundamental Frequency : 1752.6 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	51.28	V	-50.21	-7.76	1.38	-59.35	-13.00	-46.35
308.39	46.22	V	-51.93	-7.87	2.20	-62.00	-13.00	-49.00
431.58	43.49	V	-51.02	-7.69	2.60	-61.31	-13.00	-48.31
550.89	44.43	V	-48.01	-7.76	2.96	-58.73	-13.00	-45.73
672.14	45.69	V	-43.46	-7.83	3.22	-54.51	-13.00	-41.51
861.29	44.20	V	-41.60	-7.90	3.70	-53.20	-13.00	-40.20
1755.00	73.98	V	-30.50	9.61	5.40	-26.29	-13.00	-13.29
3505.20	35.25	V	-63.56	12.61	8.04	-58.98	-13.00	-45.98
5257.80	34.85	V	-56.73	12.91	10.04	-53.86	-13.00	-40.86
7010.40	---	V		11.65	11.69		-13.00	
8763.00	---	V		11.80	13.13		-13.00	
10515.60	---	V		11.66	14.68		-13.00	
12268.20	---	V		13.54	16.15		-13.00	
14020.80	---	V		11.67	17.28		-13.00	
15773.40	---	V		16.75	18.60		-13.00	
17526.00	---	V		13.21	19.76		-13.00	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH High Mode
 Fundamental Frequency : 1752.6 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Aug. 06, 2010
 Test By: Jason
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	45.76	H	-56.75	-7.76	1.38	-65.89	-13.00	-52.89
327.79	46.27	H	-51.13	-7.76	2.28	-61.17	-13.00	-48.17
429.64	40.18	H	-54.74	-7.68	2.60	-65.03	-13.00	-52.03
552.83	39.31	H	-52.35	-7.76	2.96	-63.08	-13.00	-50.08
676.99	40.17	H	-48.42	-7.84	3.23	-59.49	-13.00	-46.49
856.44	39.71	H	-46.31	-7.89	3.69	-57.89	-13.00	-44.89
1755.00	76.23	H	-28.05	9.61	5.40	-23.85	-13.00	-10.85
3505.20	34.93	H	-64.00	12.61	8.04	-59.42	-13.00	-46.42
5257.80	33.72	H	-58.05	12.91	10.04	-55.19	-13.00	-42.19
7010.40	---	H		11.65	11.69		-13.00	
8763.00	---	H		11.80	13.13		-13.00	
10515.60	---	H		11.66	14.68		-13.00	
12268.20	---	H		13.54	16.15		-13.00	
14020.80	---	H		11.67	17.28		-13.00	
15773.40	---	H		16.75	18.60		-13.00	
17526.00	---	H		13.21	19.76		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
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Remark:

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