

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 INDUSTRY CANADA RSS-132 and RSS-133 CLASS II PC REPORT

OF

Product Name: Mini-PCie wireless WAN (E362) card

Brand Name: N/A

Model No. for WWAN Module: E362

Model Name of Host: HSTNN-F05C

Model Difference: N/A

FCC ID: PKRNVWE362-H

IC: 3229B-E362H

Report No.: EH/2010/B0018-19

Issue Date: Dec. 15, 2010

FCC Rule Part: 2, 22H & 24E & 27
RSS 132 Issue 2 and RSS 133 Issue 5

Prepared for: Novatel Wireless Inc
9645 Scranton Road, Suite 205 San Diego, CA
92121-3030 United States

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

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VERIFICATION OF COMPLIANCE

Applicant: Novatel Wireless Inc
9645 Scranton Road, Suite 205 San Diego, CA 92121-3030 United States

Product Name: Mini-PCIe wireless WAN (E362) card

Brand Name: N/A

Model No. for WWAN Module: E362

Model Name of Host: HSTNN-F05C

Model Difference: N/A

FCC ID: PKRNVWE362-H

IC: 3229B-E362H

Report No.: EH/2010/B0018-19

Date of test: Nov. 11, 2010 ~ Dec. 14, 2010

Date of EUT Received: Nov. 11, 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 Issue 2 of RSS-Gen. 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. and IC standards RSS-132 Issue 2, Issue 5 of RSS-133.

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

Test By: Jazz Huang **Date:** Dec. 15 2010

Jazz Huang / Engineer

Prepared By: Gigi yeh **Date:** Dec. 15 2010

Gigi Yeh / Clerk

Approved By: Arno Hsieh **Date:** Dec. 15 2010

Arno Hsieh / Asst. Supervisor

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Version

Version No.	Date	Description
00	Dec. 15 2010	Initial creation of document

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GENERAL PRODUCT INFORMATION

General Information of Notebook

Product Name:	Mini-PCIe wireless WAN (E362) card	
WWAN Module Name:	E362	
Brand Name:	N/A	
Model No of the host	HSTNN-F05C	
Model Difference of Host:	N/A	
Hardware Version for WWAN Modular:	HP Beta4	
Software Version for WWAN Modular	1.18	
Power Supply:	10.8 Vdc Li-Ion battery or 19.5Vdc from AC/DC adapter	
	Battery:	Model No.: HSTNN-UB1Y, Supplier: HP
	Adapter :	Model: HSTNN-DA18, supplier: HP

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GSM/GPRS/EDGE/WCDMA/ CDMA/EVDO:

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 1900, Class 12	1850.2MHz – 1909.8MHz	30 dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24 dBm
	CDMA 2000 Cellular / EVDO Cellular	824.7MHz – 848.31MHz	24 dBm
	CDMA 2000 PCS / EVDO PCS	1851.25MHz– 1908.75MHz	24 dBm
	5MHz BW LTE-Band 13	779.5MHz – 784.56MHz	23 dBm
	10Mhz BW LTE-Band 13	782MHz	23 dBm
IMEI:	990000468005873		
Hardware Version:	N/A		
Software Version:	N/A		
WWAN module FCC ID:	PKRNVWE362-H		
Class II Permissive change:	Notebook PC with Embedded WWAN Radio		

This test report applies for 850/1900 GSM/GPRS/EDGE/ WCDMA/CDMA/EvDO and 700MHz LTE

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

This submittal(s) (test report) is intended for FCC ID: PKRNVWE362-H filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part 27 of the FCC CFR 47 Rules. And IC: 3229B-E362H filing to comply with RSS-132 and Issue 5 of RSS-133

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

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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	01/25/2010	01/24/2011
Radio Communication Analyzer	R&S	CMU200	111787	10/31/2010	10/30/2012
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2010	01/04/2011
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2010	01/04/2011
Temperature Chamber	TERCHY	MHG-120LF	911009	04/30/2010	04/29/2012
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/24/2010	02/23/2012
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	Chroma	41901	777188	04/15/2010	04/14/2012
Universal Radio Communication Tester	R&S	CMW500	101582	07/12/2010	07/11/2012

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2010	11/18/2011
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2010	07/16/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2010	07/16/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2009	03/08/2011
Signal Generator	R&S	SMR40	100210	02/10/2010	02/09/2012
Signal Generator	Agilent	E4438C	MY45093613	07/08/2010	07/07/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011
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	111787	10/31/2010	10/30/2012
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
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2010	01/04/2011
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/20010	11/09/2011

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2.5. Configuration of Tested System

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

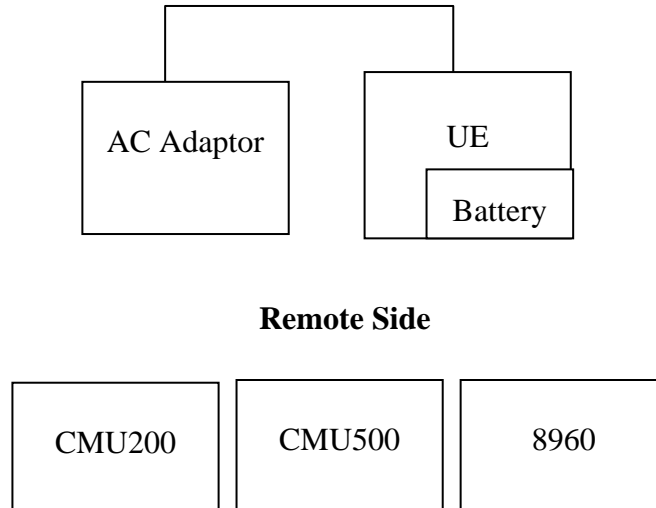


Table 2-1 Equipment Used in Tested System

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.	Wireless communications Test set	Agilent	8960	GB47050617	shielded	Un-shielded
3.	Universal Radio Communication Tester	R&S	CMW500	101582	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(b)(10)	§4.8 (RSS-Gen) §4.4 (RSS-132) §6.4 (RSS-133)	RF peak power	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(b)(10)	§4.8 (RSS-Gen) §4.4 (RSS-132) §6.4 (RSS-133)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2)	§4.9 (RSS-Gen) §4.5 (RSS-132) §6.5 (RSS-133)	Field Strength of Spurious Radiation	Compliant
§27.53f	N/A	Spurious emission in 1559 -1610MHz Band	Compliant
N/A	§4.10 (RSS-Gen) §4.6 (RSS-132) §6.6 (RSS-133)	Receiver Spurious Emissions	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	30.69	ERP	1.172
GPRS 1900 Band	24.20	EIRP	0.263
EDGE 850 Band	27.96	ERP	0.625
EDGE 1900 Band	24.16	EIRP	0.261
WCDMA Band II	22.02	EIRP	0.159
WCDMA Band V	25.78	ERP	0.378
HSUPA Band II	21.26	EIRP	0.134
HSUPA Band V	25.06	ERP	0.321
CDMA 2000 Cellular	27.92	ERP	0.619
CDMA 2000 PCS	25.58	EIRP	0.361
CDMA 2000 EVDO Cellular	28.09	ERP	0.644
CDMA 2000 EVDO PCS	24.73	EIRP	0.297
5M/QPSK RB 1 Offset 0	28.36	ERP	0.685
5M/16QAM RB 1 Offset 0	28.46	ERP	0.701
5M/QPSK RB 1 Offset 24	28.94	ERP	0.783
5M/16QAM RB 1 Offset 24	28.81	ERP	0.760
5M/QPSK RB 12 Offset 6	28.48	ERP	0.705
5M/16QAM RB 12 Offset 6	28.39	ERP	0.690
5M/QPSK RB 25 Offset 0	27.50	ERP	0.562
5M/16QAM RB 25 Offset 0	27.42	ERP	0.552
10M/QPSK RB 1 Offset 0	28.20	ERP	0.661
10M/16QAM RB 1 Offset 0	28.04	ERP	0.637
10M/QPSK RB 1 Offset 49	28.24	ERP	0.667
10M/16QAM RB 1 Offset 49	28.73	ERP	0.746
10M/QPSK RB 25 Offset 12	26.82	ERP	0.481
10M/16QAM RB 25 Offset 12	26.77	ERP	0.475
10M/QPSK RB 50 Offset 0	26.82	ERP	0.481
10M/16QAM RB 50 Offset 0	26.90	ERP	0.490

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of 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 700MHz LTE were reported which has worst data.

In comparison among the RSE data of the all modulations (GPRS, WCDMA, and CDMA2000) we found that while the radiation is in GPRS mode, the spurious emission is found to be the worst, and therefore documenting the data of radiated spurious emission on GPRS 850/1900 mode would be representative sufficiently.

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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(b)(10) Portable stations are limited to 3W

According to IC RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W which given in SRSP-510.

According to issue 2 of RSS 132, section 4.4. The transmitter output power shall not exceed the limits given in SRSP-503.

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

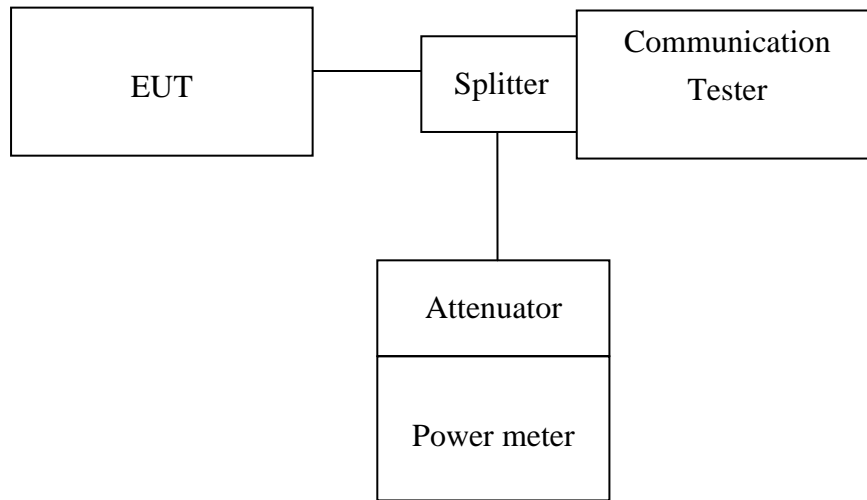
Sub-test in table C.11.1.3	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-6.7	+21	+2.7/-5.7
2	+22	+3.7/-5.2	+19	+4.7/-4.2
3	+23	+2.7/-5.2	+20	+3.7/-4.2
4	+22	+3.7/-5.2	+19	+4.7/-4.2
5	+24	+1.7/-6.7	+21	+2.7/-5.7

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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 (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:

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
GPRS 850 (Class 12)	824.2	128	31.30	31.20	29.10	29.00	27.50	27.40	26.30	26.20
	836.6	190	31.20	31.10	29.10	29.00	27.40	27.30	26.20	26.10
	848.8	251	31.20	31.10	28.90	28.80	27.30	27.20	26.20	26.10

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
GPRS 1900 (Class 12)	1850.2	512	28.10	28.00	25.90	25.80	24.10	24.02	22.90	22.80
	1880.0	661	28.00	27.90	25.50	25.40	23.60	23.50	22.30	22.20
	1909.8	810	28.00	27.90	25.20	25.10	23.40	23.30	22.10	22.10

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
EDGE 850 (Class 12)	824.2	128	30.30	26.90	27.30	24.10	25.70	22.30	24.90	21.50
	836.6	190	30.30	26.90	27.30	24.10	25.80	22.40	24.90	21.60
	848.8	251	30.20	26.80	27.20	24.00	25.70	22.30	24.80	21.50

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EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
EDGE 1900 (Class 12)	1850.2	512	28.10	25.00	25.40	22.30	23.90	20.80	22.60	19.50
	1880.0	661	28.00	25.00	25.00	21.90	23.40	20.20	22.00	19.00
	1909.8	810	28.00	24.90	24.80	21.60	23.20	20.00	21.90	18.60

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	24.78	21.81
	1880.0	9400	25.16	21.91
	1907.6	9538	25.75	22.69

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
HSUPA Band II	1852.4	9262	25.22	21.68
	1880.0	9400	25.48	21.65
	1907.6	9538	25.59	21.50

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band V	826.4	4132	26.65	22.90
	836.6	4183	26.71	23.02
	846.6	4233	26.39	22.89

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
HSUPA Band V	826.4	4132	26.03	22.05
	836.6	4183	26.15	22.19
	846.6	4233	26.35	22.22

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 Cellular	824.70	1013	23.85	23.43
	836.52	384	23.64	23.48
	848.31	777	23.85	23.79

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 PCS	1851.25	25	23.55	23.41
	1880	600	23.40	23.25
	1908.75	1175	23.52	23.36

EUT Mode	Frequency (MHz)	CH	Avg. Power (dBm)
CDMA 2000 EVDO Cellular	824.70	1013	23.59
	836.52	384	23.50
	848.31	777	23.42

EUT Mode	Frequency (MHz)	CH	Avg. Power (dBm)
CDMA 2000 EVDO PCS	1851.25	25	23.60
	1880	600	23.32
	1908.75	1175	23.19

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

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MPR Table

Freq (MHz)	Modulation	Channel Bandwidth (MHz)	RB Size	RB Offset	MPR Target Backoff (dB)
779.5	QPSK	5	1	0	0
	16QAM	5	1	0	1
	QPSK	5	1	24	0
	16QAM	5	1	24	1
	QPSK	5	12	6	1
	16QAM	5	12	6	2
	QPSK	5	25	0	1
	16QAM	5	25	0	2
784.5	QPSK	5	1	0	0
	16QAM	5	1	0	1
	QPSK	5	1	24	0
	16QAM	5	1	24	1
	QPSK	5	12	6	1
	16QAM	5	12	6	2
	QPSK	5	25	0	1
	16QAM	5	25	0	2
782	QPSK	10	1	0	0
	16QAM	10	1	0	1
	QPSK	10	1	49	0
	16QAM	10	1	49	1
	QPSK	10	25	13	1
	16QAM	10	25	13	2
	QPSK	10	50	0	1
	16QAM	10	50	0	2

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Smaller channel bandwidth of LTE band 13_5 MHz							
channel	Frequency (MHz)	Uplink Channel Number	Bandwidth (MHz)	RB Number	RB Offset	Modulation	Max. Average Power (dBm)
Low	779.5	23205	5	12	6	QPSK	22.44
	779.5	23205	5	25	0	QPSK	22.51
	779.5	23205	5	1	24	QPSK	23.75
	779.5	23205	5	1	0	QPSK	23.65
	779.5	23205	5	12	6	16 QAM	21.42
	779.5	23205	5	25	0	16 QAM	21.41
	779.5	23205	5	1	24	16 QAM	22.44
	779.5	23205	5	1	0	16 QAM	22.45
Middle	782	23230	5	12	6	QPSK	22.39
	782	23230	5	25	0	QPSK	22.43
	782	23230	5	1	24	QPSK	23.74
	782	23230	5	1	0	QPSK	23.67
	782	23230	5	12	6	16 QAM	21.37
	782	23230	5	25	0	16 QAM	21.34
	782	23230	5	1	24	16 QAM	22.46
	782	23230	5	1	0	16 QAM	22.45
High	784.5	23255	5	12	6	QPSK	22.40
	784.5	23255	5	25	0	QPSK	22.56
	784.5	23255	5	1	24	QPSK	23.73
	784.5	23255	5	1	0	QPSK	23.77
	784.5	23255	5	12	6	16 QAM	21.34
	784.5	23255	5	25	0	16 QAM	21.45
	784.5	23255	5	1	24	16 QAM	22.48
	784.5	23255	5	1	0	16 QAM	22.49

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Largest channel bandwidth of LTE band 13_10 MHz

channel	Frequency (MHz)	Uplink Channel Number	Bandwidth (MHz)	RB Number	RB Offset	Modulation	Max. Average Power (dBm)
Middle	782	23230	10	25	12	QPSK	22.45
	782	23230	10	50	0	QPSK	22.38
	782	23230	10	1	49	QPSK	23.72
	782	23230	10	1	0	QPSK	23.75
	782	23230	10	25	12	16 QAM	21.22
	782	23230	10	50	0	16 QAM	21.47
	782	23230	10	1	49	16 QAM	22.43
	782	23230	10	1	0	16 QAM	22.48

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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
		Channel				
		9262	9400	9538		
HSDPA B2	1	22.10	22.17	22.96	20.3dBm – 25.7dBm	Pass
	2	21.69	21.77	22.54	20.3dBm – 25.7dBm	Pass
	3	21.62	21.72	22.43	19.8dBm – 25.7dBm	Pass
	4	21.69	21.73	22.55	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		Channel				
		4132	4183	4233		
HSDPA B5	1	23.12	23.27	23.08	20.3dBm – 25.7dBm	Pass
	2	22.83	22.91	22.76	20.3dBm – 25.7dBm	Pass
	3	22.66	22.79	22.59	19.8dBm – 25.7dBm	Pass
	4	22.71	22.83	22.65	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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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	21.73	21.89	22.63	18.8dBm – 25.7dBm	Pass
	2	19.78	19.96	20.67	16.8dBm – 25.7dBm	Pass
	3	20.79	20.91	21.71	17.8dBm – 25.7dBm	Pass
	4	19.91	20.01	20.71	16.8dBm – 25.7dBm	Pass
	5	21.62	21.75	22.54	18.8dBm – 25.7dBm	Pass

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Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel				
		4132	4183	4233		
HSUPA B5	1	22.86	22.95	22.81	18.8dBm – 25.7dBm	Pass
	2	20.92	21.03	20.85	16.8dBm – 25.7dBm	Pass
	3	21.09	22.01	21.89	17.8dBm – 25.7dBm	Pass
	4	20.97	21.09	20.93	16.8dBm – 25.7dBm	Pass
	5	22.72	22.78	22.70	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.

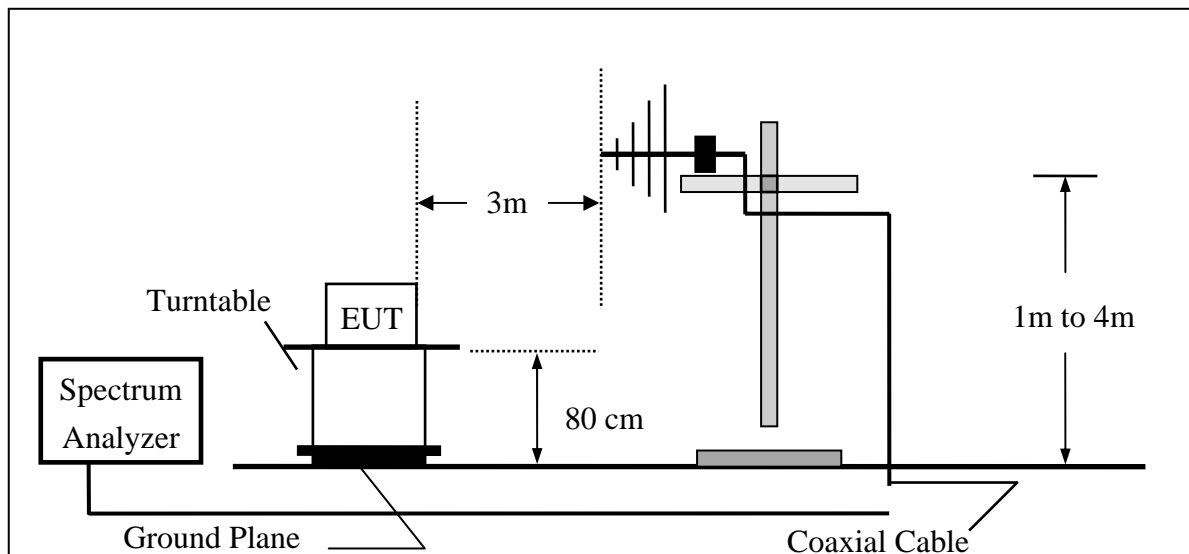
FCC 27.50(b)(10) Portable stations are limited to 3W ERP.

According to issue 5 of RSS-133 §6.4. The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits given in SRSP-510.

According to issue 2 of RSS 132, section 4.4. The transmitter output power shall not exceed the limits given in SRSP-503.

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

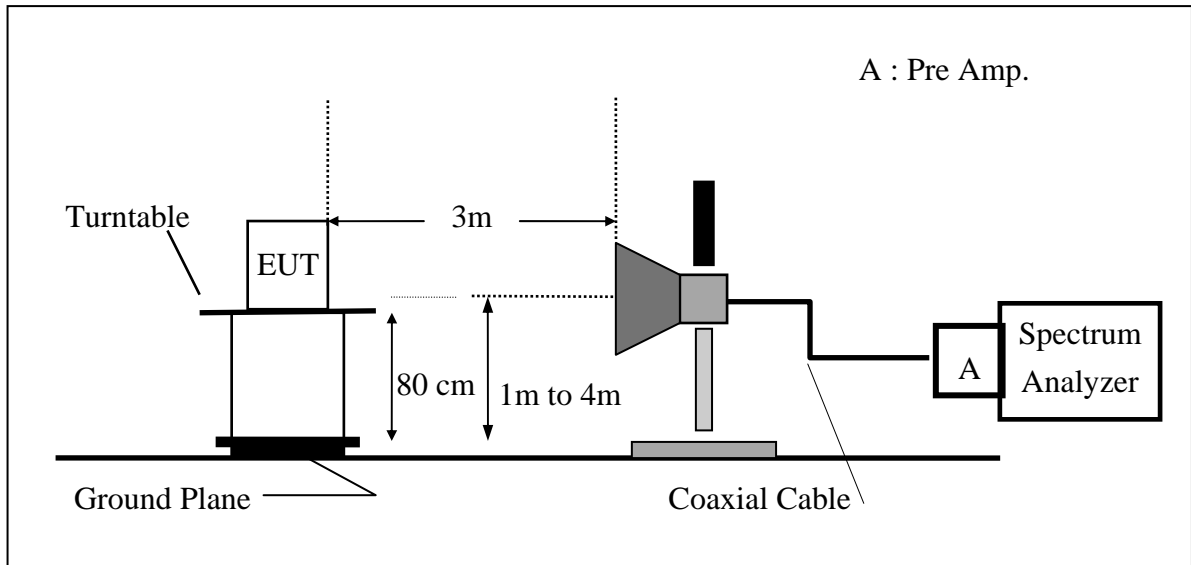
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



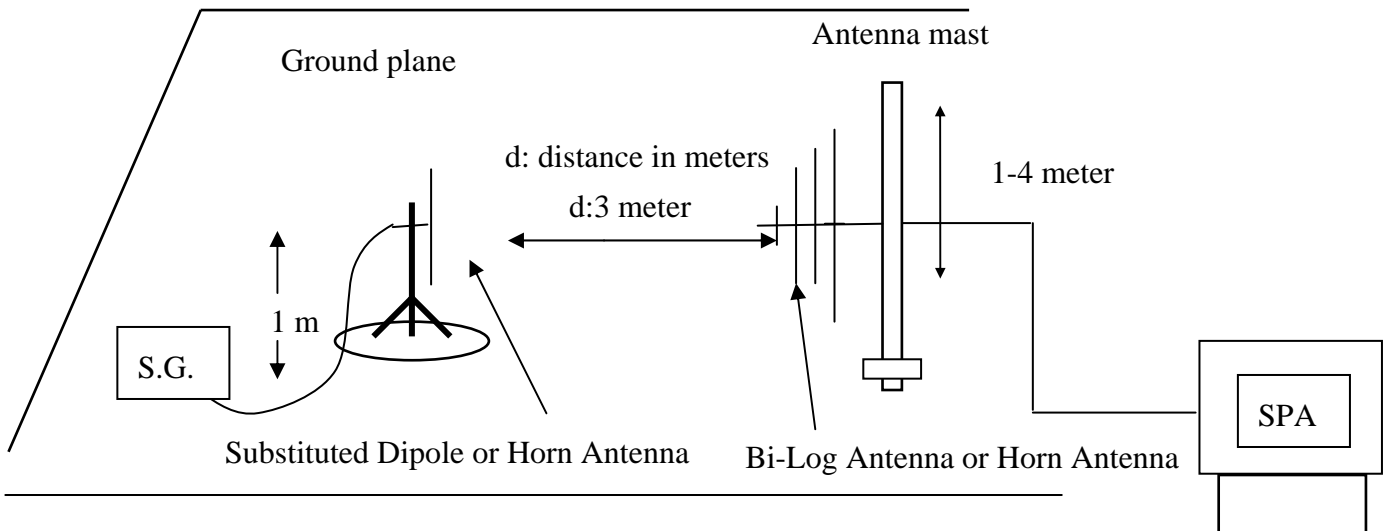
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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 and 779.5 – 784.5 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	124.09	37.70	-7.87	3.62	26.20	38.45
				H	128.46	42.19	-7.87	3.62	30.69	38.45
	836.60	190	E2	V	124.97	38.72	-7.88	3.65	27.19	38.45
				H	127.74	41.51	-7.88	3.65	29.98	38.45
	848.80	251	E2	V	124.67	38.55	-7.88	3.68	26.99	38.45
				H	127.94	41.75	-7.88	3.68	30.19	38.45

Remark :

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

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	123.65	19.26	9.90	5.56	23.60	33.00
				H	124.32	20.14	9.90	5.84	24.20	33.00
	1880.00	661	E2	V	121.50	17.14	9.99	5.61	21.52	33.00
				H	122.86	18.72	9.99	5.61	23.09	33.00
	1909.80	810	E2	V	121.55	17.22	10.08	5.66	21.64	33.00
				H	122.91	18.80	10.08	5.66	23.22	33.00

Remark :

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

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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	121.54	35.15	-7.87	3.62	23.65	38.45
				H	125.73	39.46	-7.87	3.62	27.96	38.45
	836.60	190	E2	V	122.52	36.27	-7.88	3.65	24.74	38.45
				H	124.90	38.67	-7.88	3.65	27.14	38.45
	848.80	251	E2	V	122.49	36.37	-7.88	3.68	24.81	38.45
				H	125.47	39.28	-7.88	3.68	27.72	38.45

Remark :

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

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	123.71	19.32	9.90	5.56	23.66	33.00
				H	124.28	20.10	9.90	5.84	24.16	33.00
	1880.00	661	E2	V	121.92	17.56	9.99	5.61	21.94	33.00
				H	122.64	18.50	9.99	5.61	22.87	33.00
	1909.80	810	E2	V	121.04	16.71	10.08	5.66	21.13	33.00
				H	121.70	17.59	10.08	5.66	22.01	33.00

Remark :

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

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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	117.40	13.02	9.90	5.56	17.35	33.00
				H	121.18	17.00	9.90	5.84	21.06	33.00
	1880.00	9400	E2	V	117.13	12.77	9.99	5.61	17.15	33.00
				H	120.36	16.22	9.99	5.61	20.59	33.00
	1907.60	9538	E2	V	119.02	14.69	10.07	5.66	19.10	33.00
				H	121.72	17.61	10.07	5.66	22.02	33.00

Remark :

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

RBW= 5MHz , VBW= 8MHz

Detector = Peak

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
WCDMA Band V	826.40	4132	E2	V	117.23	30.87	-7.88	3.63	19.36	38.45
				H	122.63	36.37	-7.88	3.63	24.87	38.45
	836.60	4183	E2	V	117.38	31.12	-7.88	3.65	19.59	38.45
				H	123.54	37.31	-7.88	3.65	25.78	38.45
	846.60	4233	E2	V	117.07	30.92	-7.88	3.67	19.37	38.45
				H	122.57	36.37	-7.88	3.67	24.82	38.45

Remark :

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

RBW= 5MHz , VBW= 8MHz

Detector = Peak

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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	119.28	14.76	9.48	5.33	18.90	33.00
				H	120.54	16.21	9.90	5.84	20.27	33.00
	1880.00	9400	E2	V	118.31	13.81	9.54	5.36	17.98	33.00
				H	120.02	15.71	9.54	5.36	19.88	33.00
	1907.60	9538	E2	V	120.12	15.64	9.61	5.40	19.84	33.00
				H	121.34	17.05	9.61	5.40	21.26	33.00

Remark :

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

RBW= 5MHz , VBW= 8MHz

Detector = Peak

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSUPA Band V	826.40	4132	E2	V	117.60	31.24	-7.88	3.63	19.73	38.45
				H	121.49	35.23	-7.88	3.63	23.73	38.45
	836.60	4183	E2	V	118.40	32.14	-7.88	3.65	20.61	38.45
				H	122.82	36.59	-7.88	3.65	25.06	38.45
	846.60	4233	E2	V	117.12	30.97	-7.88	3.67	19.42	38.45
				H	121.62	35.42	-7.88	3.67	23.87	38.45

Remark :

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

RBW= 5MHz , VBW= 8MHz

Detector = Peak

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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)	EIRP (dBm)	Limit (dBm)
CDMA 2000 Cellular	824.70	1013	E2	V	122.74	36.38	-7.88	3.63	24.87	38.45
				H	125.57	39.31	-7.88	3.63	27.81	38.45
	836.52	384	E2	V	124.01	37.75	-7.88	3.65	26.22	38.45
				H	125.68	39.45	-7.88	3.65	27.92	38.45
	848.31	777	E2	V	122.73	36.58	-7.88	3.67	25.03	38.45
				H	124.13	37.93	-7.88	3.67	26.38	38.45

Remark :

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

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)
CDMA 2000 PCS	1851.25	25	E2	V	122.97	18.59	9.90	5.56	22.92	33.00
				H	123.41	19.23	9.90	5.84	23.29	33.00
	1880.0	600	E2	V	123.18	18.82	9.99	5.61	23.20	33.00
				H	124.69	20.55	9.99	5.61	24.92	33.00
	1908.75	1175	E2	V	122.07	17.74	10.07	5.66	22.15	33.00
				H	125.28	21.17	10.07	5.66	25.58	33.00

Remark :

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

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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)	EIRP (dBm)	Limit (dBm)
CDMA	824.70	1013	E2	V	122.04	35.68	-7.88	3.63	24.17	38.45
				H	125.29	39.03	-7.88	3.63	27.53	38.45
2000 EVDO	836.52	384	E2	V	123.37	37.11	-7.88	3.65	25.58	38.45
				H	125.85	39.62	-7.88	3.65	28.09	38.45
Cellular	848.31	777	E2	V	121.88	35.73	-7.88	3.67	24.18	38.45
				H	124.00	37.80	-7.88	3.67	26.25	38.45

Remark :

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

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)
CDMA	1851.25	25	E2	V	122.06	17.68	9.90	5.56	22.01	33.00
				H	123.26	19.08	9.90	5.84	23.14	33.00
2000 EVDO	1880.0	600	E2	V	123.56	19.20	9.99	5.61	23.58	33.00
				H	124.50	20.36	9.99	5.61	24.73	33.00
PCS	1908.75	1175	E2	V	121.70	17.37	10.07	5.66	21.78	33.00
				H	123.82	19.71	10.07	5.66	24.12	33.00

Remark :

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

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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)
5MHz BW LTE-Band 13 (QPSK RB 1 Offset 0)	779.50	23205	E2	V	124.87	38.03	-7.87	3.53	26.63	34.77
				H	126.85	36.15	-7.87	5.84	22.44	34.77
	782.00	23230	E2	V	126.31	39.49	-7.87	3.53	28.09	34.77
				H	126.31	36.14	-7.87	3.53	24.74	34.77
	784.50	23255	E2	V	126.56	39.77	-7.87	3.54	28.36	34.77
				H	126.78	37.14	-7.87	3.54	25.73	34.77

Remark :

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

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)
5MHz BW LTE-Band 13 (16QAM RB 1 Offset 0)	779.50	23205	E2	V	124.98	38.14	-7.87	3.53	26.74	34.77
				H	126.74	36.04	-7.87	5.84	22.33	34.77
	782.00	23230	E2	V	125.46	38.64	-7.87	3.53	27.24	34.77
				H	126.20	36.03	-7.87	3.53	24.63	34.77
	784.50	23255	E2	V	126.66	39.87	-7.87	3.54	28.46	34.77
				H	126.76	37.12	-7.87	3.54	25.71	34.77

Remark :

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

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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)
5MHz BW LTE-Band 13 (QPSK RB 1 Offset 24)	779.50	23205	E2	V	125.18	38.34	-7.87	3.53	26.94	34.77
				H	126.08	35.38	-7.87	5.84	21.67	34.77
	782.00	23230	E2	V	126.24	39.42	-7.87	3.53	28.02	34.77
				H	127.11	36.94	-7.87	3.53	25.54	34.77
	784.50	23255	E2	V	127.14	40.35	-7.87	3.54	28.94	34.77
				H	127.49	37.85	-7.87	3.54	26.44	34.77

Remark :

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

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)
5MHz BW LTE-Band 13 (16QAM RB 1 Offset 24)	779.50	23205	E2	V	125.16	38.32	-7.87	3.53	26.92	34.77
				H	124.92	34.22	-7.87	5.84	20.51	34.77
	782.00	23230	E2	V	126.27	39.45	-7.87	3.53	28.05	34.77
				H	127.11	36.94	-7.87	3.53	25.54	34.77
	784.50	23255	E2	V	127.01	40.22	-7.87	3.54	28.81	34.77
				H	127.54	37.90	-7.87	3.54	26.49	34.77

Remark :

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

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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)
5MHz BW LTE-Band 13 (QPSK RB 12 Offset 6)	779.50	23205	E2	V	124.31	37.47	-7.87	3.53	26.07	34.77
				H	125.02	34.32	-7.87	5.84	20.61	34.77
	782.00	23230	E2	V	125.30	38.48	-7.87	3.53	27.08	34.77
				H	126.22	36.05	-7.87	3.53	24.65	34.77
	784.50	23255	E2	V	126.68	39.89	-7.87	3.54	28.48	34.77
				H	127.00	37.36	-7.87	3.54	25.95	34.77

Remark :

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

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)
5MHz BW LTE-Band 13 (16QAM RB 12 Offset 6)	779.50	23205	E2	V	124.46	37.62	-7.87	3.53	26.22	34.77
				H	124.89	34.19	-7.87	5.84	20.48	34.77
	782.00	23230	E2	V	126.38	39.56	-7.87	3.53	28.16	34.77
				H	126.38	36.21	-7.87	3.53	24.81	34.77
	784.50	23255	E2	V	126.59	39.80	-7.87	3.54	28.39	34.77
				H	127.10	37.46	-7.87	3.54	26.05	34.77

Remark :

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

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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)
5MHz BW LTE-Band 13 (QPSK RB 25 Offset 0)	779.50	23205	E2	V	124.10	37.26	-7.87	3.53	25.86	34.77
				H	124.89	34.19	-7.87	5.84	20.48	34.77
	782.00	23230	E2	V	124.99	38.17	-7.87	3.53	26.77	34.77
				H	125.36	35.19	-7.87	3.53	23.79	34.77
	784.50	23255	E2	V	125.70	38.91	-7.87	3.54	27.50	34.77
				H	126.03	36.39	-7.87	3.54	24.98	34.77

Remark :

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

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)
5MHz BW LTE-Band 13 (16QAM RB 25 Offset 0)	779.50	23205	E2	V	123.97	37.13	-7.87	3.53	25.73	34.77
				H	124.79	34.09	-7.87	5.84	20.38	34.77
	782.00	23230	E2	V	124.75	37.93	-7.87	3.53	26.53	34.77
				H	125.50	35.33	-7.87	3.53	23.93	34.77
	784.50	23255	E2	V	125.62	38.83	-7.87	3.54	27.42	34.77
				H	126.09	36.45	-7.87	3.54	25.04	34.77

Remark :

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

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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)
10MHz BW LTE-Band 13 (QPSK RB 1 Offset 0)	782.00	23230	E2	V	126.42	39.60	-7.87	3.53	28.20	34.77
				H	126.17	36.00	-7.87	3.53	24.60	34.77

Remark :

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

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)
10MHz BW LTE-Band 13 (16QAM RB 1 Offset 0)	782.00	23230	E2	V	126.26	39.44	-7.87	3.53	28.04	34.77
				H	126.28	36.11	-7.87	3.53	24.71	34.77

Remark :

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

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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)
10MHz BW LTE-Band 13 (QPSK RB 1 Offset 49)	782.00	23230	E2	V	126.46	39.64	-7.87	3.53	28.24	34.77
				H	127.09	36.92	-7.87	3.53	25.52	34.77

Remark :

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

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)
10MHz BW LTE-Band 13 (16QAM RB 1 Offset 49)	782.00	23230	E2	V	126.95	40.13	-7.87	3.53	28.73	34.77
				H	127.47	37.30	-7.87	3.53	25.90	34.77

Remark :

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

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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)
10MHz BW LTE-Band 13 (QPSK RB 25 Offset 12)	782.00	23230	E2	V	125.04	38.22	-7.87	3.53	26.82	34.77
				H	125.59	35.42	-7.87	3.53	24.02	34.77

Remark :

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

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)
10MHz BW LTE-Band 13 (16QAM RB 25 Offset 12)	782.00	23230	E2	V	124.99	38.17	-7.87	3.53	26.77	34.77
				H	125.57	35.40	-7.87	3.53	24.00	34.77

Remark :

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

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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)
10MHz BW LTE-Band 13 (QPSK RB 50 Offset 0)	782.00	23230	E2	V	125.04	38.22	-7.87	3.53	29.83	34.77
				H	125.36	35.19	-7.87	3.53	26.80	34.77

Remark :

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

Due to the limitation of spectrum, RBW cannot be set = 10MHz to capture all the energy of the fundamental emission. A resolution of bandwidth is set as 5 MHz instead to determine the compliance. Using 5 MHz bandwidth, the ERP of final value is re-adjusted by the following equation:

$$\text{ERP (final value)} = \text{ERP (measure using 5 MHz)} + 10 * \log (10\text{MHz}/5\text{MHz})$$

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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)
10MHz BW LTE-Band 13 (16QAM RB 50 Offset 0)	782.00	23230	E2	V	125.12	38.30	-7.87	3.53	29.91	34.77
				H	125.34	35.17	-7.87	3.53	26.78	34.77

Remark :

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

Due to the limitation of spectrum, RBW cannot be set = 10MHz to capture all the energy of the fundamental emission. A resolution of bandwidth is set as 5 MHz instead to determine the compliance. Using 5 MHz bandwidth, the ERP of final value is re-adjusted by the following equation:

$$\text{ERP (final value)} = \text{ERP (measure using 5 MHz)} + 10 * \log (10\text{MHz}/5\text{MHz})$$

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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(c) 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)

FCC §27.53(f) For operations in the 746–763 MHz, 775–793 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) EIRP for wideband signals, and -80dBW(-50dBm) EIRP for discrete emissions of less than 700 Hz bandwidth.

According to RSS-132 §4.5 and RSS-133 §6.5

Out-of-Block Emissions

a. Mobile stations must comply with subsection i. below.

In the first 1.0MHz band immediately outside and adjacent to the licensee's frequency block. the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log$ (P), dB.

b. After the first 1.0 MHz (for equipment that complies with a.i. of this subsection) or 1.5 MHz (for equipment that complies with a.ii. of this subsection), the power of emissions shall be attenuated below the transmitter output power by at least $43 + 10 \log$ (P), dB, per any MHz of bandwidth.

(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyser resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

Out-of-Sub-band Emissions

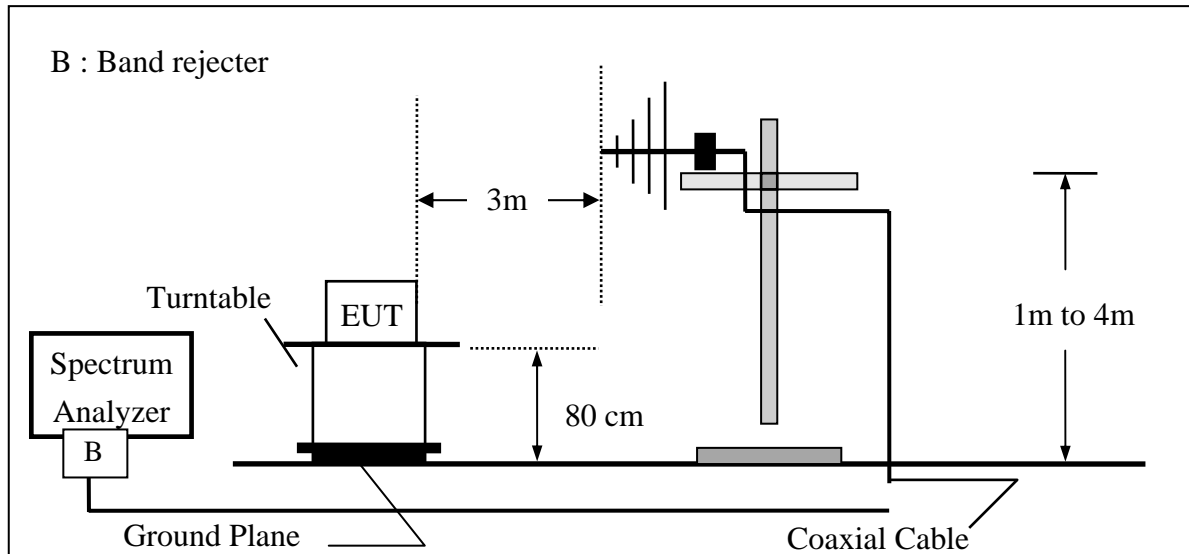
Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

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7.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz

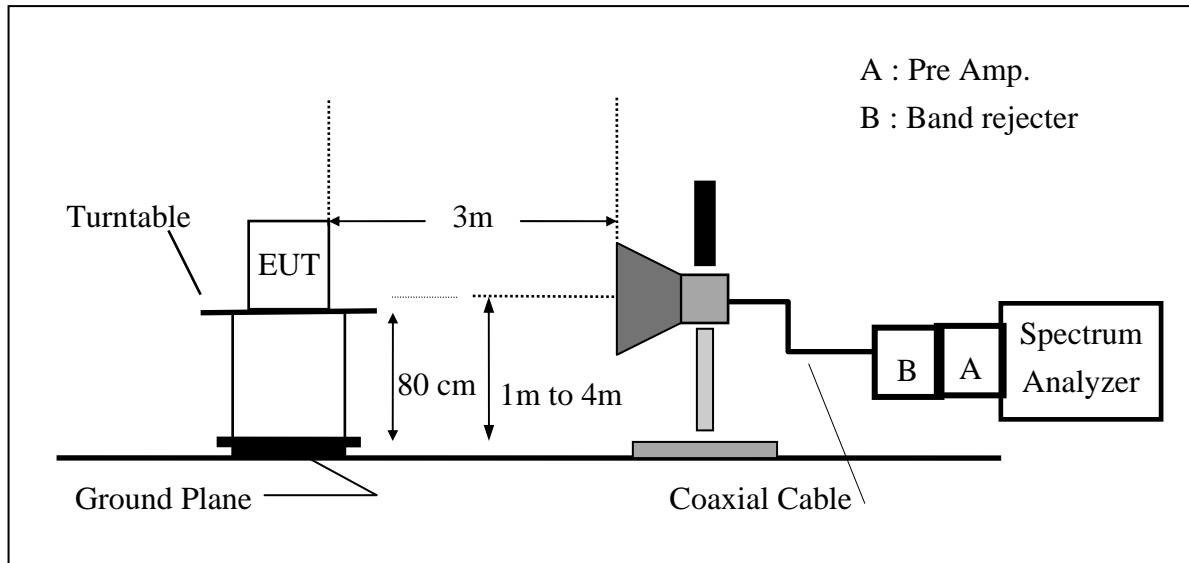


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Radiated Emission Test Set-UP Frequency Over 1 GHz



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: Dec. 04, 2010
 Fundamental Frequency : 824.20 MHz Test By: Jazz
 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)
90.14	49.13	V	-54.05	-7.75	1.27	-63.07	-13.00	-50.07
219.15	42.77	V	-58.29	-7.86	1.82	-67.96	-13.00	-54.96
284.14	36.41	V	-62.36	-7.91	2.11	-72.38	-13.00	-59.38
340.40	39.75	V	-58.00	-7.69	2.32	-68.02	-13.00	-55.02
474.26	32.96	V	-61.07	-7.71	2.73	-71.51	-13.00	-58.51
623.64	32.49	V	-56.77	-7.80	3.09	-67.66	-13.00	-54.66
823.98	77.48	V	-8.91	-7.87	3.62	-20.41	-13.00	-7.41
1648.40	52.73	V	-51.85	9.29	5.23	-47.79	-13.00	-34.79
2472.60	57.70	V	-43.31	10.08	6.53	-39.76	-13.00	-26.76
3296.80	50.05	V	-48.82	12.17	7.71	-44.37	-13.00	-31.37
4121.00	46.61	V	-49.51	12.61	8.86	-45.76	-13.00	-32.76
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}, VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Low Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 824.20 MHz	Test By:	Jazz
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)
70.74	40.44	H	-71.87	-1.18	1.16	-74.21	-13.00	-61.21
107.60	39.01	H	-63.20	-7.77	1.39	-72.36	-13.00	-59.36
227.88	33.82	H	-66.48	-7.87	1.87	-76.21	-13.00	-63.21
284.14	37.45	H	-60.70	-7.91	2.11	-70.73	-13.00	-57.73
340.40	38.12	H	-59.17	-7.69	2.32	-69.19	-13.00	-56.19
396.66	37.35	H	-59.13	-7.66	2.50	-69.29	-13.00	-56.29
823.98	82.49	H	-3.78	-7.87	3.62	-15.28	-13.00	-2.28
1648.40	54.44	H	-49.96	9.29	5.23	-45.90	-13.00	-32.90
2472.60	60.53	H	-40.38	10.08	6.53	-36.83	-13.00	-23.83
3296.80	46.74	H	-52.36	12.17	7.71	-47.90	-13.00	-34.90
4121.00	39.99	H	-56.26	12.61	8.86	-52.51	-13.00	-39.51
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. R Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 836.60 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Ver
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)
90.14	47.03	V	-56.15	-7.75	1.27	-65.17	-13.00	-52.17
107.60	45.42	V	-55.80	-7.77	1.39	-64.96	-13.00	-51.96
255.04	36.04	V	-63.68	-7.89	2.01	-73.59	-13.00	-60.59
284.14	37.31	V	-61.46	-7.91	2.11	-71.48	-13.00	-58.48
340.40	40.38	V	-57.37	-7.69	2.32	-67.39	-13.00	-54.39
565.44	34.92	V	-56.67	-7.77	2.98	-67.42	-13.00	-54.42
1673.20	52.56	V	-52.00	9.36	5.27	-47.90	-13.00	-34.90
2509.80	57.81	V	-42.97	10.09	6.58	-39.47	-13.00	-26.47
3346.40	50.05	V	-48.81	12.28	7.79	-44.33	-13.00	-31.33
4183.00	47.12	V	-48.77	12.62	8.93	-45.08	-13.00	-32.08
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}, VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 836.60 MHz	Test By:	Jazz
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)
70.74	41.69	H	-70.62	-1.18	1.16	-72.96	-13.00	-59.96
107.60	40.36	H	-61.85	-7.77	1.39	-71.01	-13.00	-58.01
255.04	35.72	H	-63.34	-7.89	2.01	-73.24	-13.00	-60.24
284.14	38.38	H	-59.77	-7.91	2.11	-69.80	-13.00	-56.80
342.34	37.67	H	-59.60	-7.68	2.33	-69.61	-13.00	-56.61
396.66	36.08	H	-60.40	-7.66	2.50	-70.56	-13.00	-57.56
1673.20	56.45	H	-47.93	9.36	5.27	-43.83	-13.00	-30.83
2509.80	58.52	H	-42.18	10.09	6.58	-38.68	-13.00	-25.68
3346.40	43.53	H	-55.53	12.28	7.79	-51.05	-13.00	-38.05
4183.00	39.85	H	-56.18	12.62	8.93	-52.49	-13.00	-39.49
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}, VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH High Mode Test Date: Dec. 04, 2010
Fundamental Frequency : 848.80 MHz Test By: Jazz
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)
107.60	46.94	V	-54.28	-7.77	1.39	-63.44	-13.00	-50.44
255.04	35.40	V	-64.32	-7.89	2.01	-74.23	-13.00	-61.23
284.14	37.67	V	-61.10	-7.91	2.11	-71.12	-13.00	-58.12
340.40	39.77	V	-57.98	-7.69	2.32	-68.00	-13.00	-55.00
568.35	33.68	V	-57.74	-7.77	2.99	-68.50	-13.00	-55.50
726.46	34.54	V	-53.67	-7.87	3.39	-64.92	-13.00	-51.92
849.00	76.23	V	-9.89	-7.88	3.68	-21.45	-13.00	-8.45
1697.60	53.15	V	-51.39	9.44	5.31	-47.26	-13.00	-34.26
2546.40	54.07	V	-46.57	10.20	6.63	-43.01	-13.00	-30.01
3395.20	48.37	V	-50.48	12.38	7.87	-45.97	-13.00	-32.97
4244.00	47.25	V	-48.41	12.63	9.00	-44.78	-13.00	-31.78
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 848.80 MHz	Test By:	Jazz
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)
107.60	41.91	H	-60.30	-7.77	1.39	-69.46	-13.00	-56.46
284.14	39.29	H	-58.86	-7.91	2.11	-68.89	-13.00	-55.89
340.40	36.75	H	-60.54	-7.69	2.32	-70.56	-13.00	-57.56
398.60	34.83	H	-61.62	-7.66	2.51	-71.79	-13.00	-58.79
568.35	33.71	H	-57.64	-7.77	2.99	-68.39	-13.00	-55.39
691.54	33.85	H	-54.13	-7.85	3.27	-65.25	-13.00	-52.25
849.00	81.28	H	-4.91	-7.88	3.68	-16.47	-13.00	-3.47
1697.60	52.44	H	-51.91	9.44	5.31	-47.78	-13.00	-34.78
2546.40	60.66	H	-39.94	10.20	6.63	-36.38	-13.00	-23.38
3395.20	46.16	H	-52.87	12.38	7.87	-48.35	-13.00	-35.35
4244.00	37.99	H	-57.82	12.63	9.00	-54.20	-13.00	-41.20
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Low Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 1850.20MHz	Test By:	Jazz
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)
107.60	46.25	V	-54.97	-7.77	1.39	-64.13	-13.00	-51.13
284.14	39.63	V	-59.14	-7.91	2.11	-69.16	-13.00	-56.16
340.40	39.63	V	-58.12	-7.69	2.32	-68.14	-13.00	-55.14
565.44	35.05	V	-56.54	-7.77	2.98	-67.29	-13.00	-54.29
681.84	35.79	V	-53.46	-7.84	3.24	-64.55	-13.00	-51.55
794.36	39.03	V	-47.67	-7.87	3.56	-59.10	-13.00	-46.10
1850.00	79.16	V	-25.23	9.90	5.56	-20.89	-13.00	-7.89
3700.40	55.82	V	-42.11	12.61	8.31	-37.81	-13.00	-24.81
5550.60	62.06	V	-28.78	13.23	10.33	-25.88	-13.00	-12.88
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}, VBW = 1 \text{ MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Low Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 1850.20MHz	Test By:	Jazz
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)
104.66	46.60	H	-55.91	-7.76	1.38	-65.06	-13.00	-52.06
225.94	36.72	H	-63.67	-7.87	1.86	-73.39	-13.00	-60.39
284.14	40.38	H	-57.77	-7.91	2.11	-67.80	-13.00	-54.80
398.60	36.79	H	-59.66	-7.66	2.51	-69.83	-13.00	-56.83
607.15	33.82	H	-56.74	-7.79	3.05	-67.58	-13.00	-54.58
679.90	37.14	H	-51.33	-7.84	3.24	-62.41	-13.00	-49.41
1850.00	77.14	H	-27.04	9.90	5.56	-22.70	-13.00	-9.70
3700.40	50.26	H	-47.78	12.61	8.31	-43.48	-13.00	-30.48
5550.60	57.34	H	-33.71	13.23	10.33	-30.81	-13.00	-17.81
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}, VBW = 1 \text{ MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 1880MHz	Test By:	Jazz
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)
107.60	46.64	V	-54.58	-7.77	1.39	-63.74	-13.00	-50.74
225.94	37.80	V	-63.00	-7.87	1.86	-72.72	-13.00	-59.72
284.14	40.30	V	-58.47	-7.91	2.11	-68.49	-13.00	-55.49
340.40	40.17	V	-57.58	-7.69	2.32	-67.60	-13.00	-54.60
623.64	33.10	V	-56.16	-7.80	3.09	-67.05	-13.00	-54.05
681.84	34.72	V	-54.53	-7.84	3.24	-65.62	-13.00	-52.62
3760.00	53.29	V	-44.37	12.60	8.39	-40.15	-13.00	-27.15
5640.00	57.27	V	-33.31	13.36	10.41	-30.36	-13.00	-17.36
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 1880MHz	Test By:	Jazz
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)
107.60	43.97	H	-58.24	-7.77	1.39	-67.40	-13.00	-54.40
260.86	36.52	H	-62.36	-7.90	2.03	-72.29	-13.00	-59.29
284.14	39.62	H	-58.53	-7.91	2.11	-68.56	-13.00	-55.56
396.66	37.22	H	-59.26	-7.66	2.50	-69.42	-13.00	-56.42
681.84	35.51	H	-52.88	-7.84	3.24	-63.96	-13.00	-50.96
796.30	35.39	H	-51.74	-7.87	3.56	-63.17	-13.00	-50.17
3760.00	44.53	H	-53.24	12.60	8.39	-49.03	-13.00	-36.03
5640.00	53.08	H	-37.67	13.36	10.41	-34.72	-13.00	-21.72
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.
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH High Mode Test Date: Dec. 04, 2010
 Fundamental Frequency : 1909.8 MHz Test By: Jazz
 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)
107.60	45.75	V	-55.47	-7.77	1.39	-64.63	-13.00	-51.63
225.94	38.07	V	-62.73	-7.87	1.86	-72.45	-13.00	-59.45
284.14	40.32	V	-58.45	-7.91	2.11	-68.47	-13.00	-55.47
340.40	38.57	V	-59.18	-7.69	2.32	-69.20	-13.00	-56.20
568.35	33.67	V	-57.75	-7.77	2.99	-68.51	-13.00	-55.51
679.90	35.19	V	-54.04	-7.84	3.24	-65.12	-13.00	-52.12
1910.00	74.37	V	-29.96	10.08	5.66	-25.54	-13.00	-12.54
3819.60	49.11	V	-48.28	12.60	8.47	-44.15	-13.00	-31.15
5729.40	49.38	V	-40.94	13.49	10.50	-37.94	-13.00	-24.94
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1 \text{ MHz}$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH High Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 1909.8 MHz	Test By:	Jazz
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)
105.66	45.99	H	-56.42	-7.76	1.39	-65.57	-13.00	-52.57
260.86	37.05	H	-61.83	-7.90	2.03	-71.76	-13.00	-58.76
284.14	41.63	H	-56.52	-7.91	2.11	-66.55	-13.00	-53.55
396.66	37.36	H	-59.12	-7.66	2.50	-69.28	-13.00	-56.28
613.94	33.46	H	-56.97	-7.80	3.07	-67.83	-13.00	-54.83
681.84	35.40	H	-52.99	-7.84	3.24	-64.07	-13.00	-51.07
1910.01	70.70	H	-33.41	10.08	5.66	-28.99	-13.00	-15.99
3819.60	42.97	H	-54.54	12.60	8.47	-50.40	-13.00	-37.40
5729.40	52.30	H	-38.15	13.49	10.50	-35.16	-13.00	-22.16
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	

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1 \text{ MHz}$

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13

(QPSK RB 1 Offset 24)

Operation Mode	: QPSK LOW Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 779.5 MHz	Test By:	Jazz
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)
41.64	43.00	V	-59.65	-2.31	0.93	-62.90	-13.00	-49.90
90.14	49.48	V	-53.70	-7.75	1.27	-62.72	-13.00	-49.72
107.60	43.63	V	-57.59	-7.77	1.39	-66.75	-13.00	-53.75
340.40	45.43	V	-52.32	-7.69	2.32	-62.34	-13.00	-49.34
398.60	34.87	V	-60.69	-7.66	2.51	-70.85	-13.00	-57.85
568.35	34.25	V	-57.17	-7.77	2.99	-67.93	-13.00	-54.93
776.00	77.44	V	-9.43	-7.87	3.52	-20.82	-13.00	-7.82
2338.50	46.39	V	-55.53	10.15	6.32	-51.71	-13.00	-38.71
3118.00	---	V		11.78	7.43		-13.00	
3897.50	---	V		12.60	8.58		-13.00	
4677.00	---	V		12.66	9.47		-13.00	
5456.50	---	V		13.11	10.24		-13.00	
6236.00	---	V		13.07	10.97		-13.00	
7015.50	---	V		11.64	11.70		-13.00	
7795.00	---	V		11.34	12.38		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13

(QPSK RB 1 Offset 24)

Operation Mode	: QPSK LOW Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 779.5 MHz	Test By:	Jazz
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)
44.55	45.60	H	-59.16	-1.72	1.00	-61.87	-13.00	-48.87
90.14	48.39	H	-55.34	-7.75	1.27	-64.36	-13.00	-51.36
148.34	42.96	H	-54.98	-7.80	1.58	-64.36	-13.00	-51.36
342.34	45.64	H	-51.63	-7.68	2.33	-61.64	-13.00	-48.64
398.60	36.29	H	-60.16	-7.66	2.51	-70.33	-13.00	-57.33
718.70	33.77	H	-57.36	-7.86	3.36	-68.58	-13.00	-55.58
776.00	76.84	H	-14.61	-7.87	3.52	-26.00	-13.00	-13.00
2338.50	44.98	H	-56.81	10.15	6.32	-52.98	-13.00	-39.98
3118.00	---	H		11.78	7.43		-13.00	
3897.50	---	H		12.60	8.58		-13.00	
4677.00	---	H		12.66	9.47		-13.00	
5456.50	---	H		13.11	10.24		-13.00	
6236.00	---	H		13.07	10.97		-13.00	
7015.50	---	H		11.64	11.70		-13.00	
7795.00	---	H		11.34	12.38		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13

(QPSK RB 1 Offset 24)

Operation Mode	: QPSK High Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 784.5 MHz	Test By:	Jazz
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)
41.64	42.81	V	-59.84	-2.31	0.93	-63.09	-13.00	-50.09
90.14	48.95	V	-54.23	-7.75	1.27	-63.25	-13.00	-50.25
107.60	44.31	V	-56.91	-7.77	1.39	-66.07	-13.00	-53.07
342.34	46.17	V	-51.55	-7.68	2.33	-61.57	-13.00	-48.57
398.60	34.94	V	-60.62	-7.66	2.51	-70.78	-13.00	-57.78
568.35	33.78	V	-57.64	-7.77	2.99	-68.40	-13.00	-55.40
788.00	75.05	V	-11.71	-7.87	3.55	-23.13	-13.00	-10.13
2353.50	46.38	V	-55.44	10.14	6.35	-51.64	-13.00	-38.64
3138.00	---	V		11.82	7.47		-13.00	
3922.50	---	V		12.60	8.61		-13.00	
4707.00	---	V		12.66	9.50		-13.00	
5491.50	---	V		13.14	10.27		-13.00	
6276.00	---	V		12.93	11.01		-13.00	
7060.50	---	V		11.63	11.74		-13.00	
7845.00	---	V		11.32	12.41		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}, VBW = 1\text{MHz}$

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13
(QPSK RB 1 Offset 24)**

Operation Mode	: QPSK High Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 784.5 MHz	Test By:	Jazz
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)
41.64	46.50	H	-57.01	-2.31	0.93	-60.25	-13.00	-47.25
90.14	48.58	H	-55.15	-7.75	1.27	-64.17	-13.00	-51.17
102.75	45.24	H	-57.47	-7.76	1.37	-66.61	-13.00	-53.61
322.94	37.05	H	-60.40	-7.79	2.26	-70.45	-13.00	-57.45
340.40	44.57	H	-52.72	-7.69	2.32	-62.74	-13.00	-49.74
398.60	36.53	H	-59.92	-7.66	2.51	-70.09	-13.00	-57.09
788.60	75.84	H	-12.93	-7.87	3.55	-24.34	-13.00	-11.34
2353.50	45.16	H	-56.53	10.14	6.35	-52.73	-13.00	-39.73
3138.00	---	H		11.82	7.47		-13.00	
3922.50	---	H		12.60	8.61		-13.00	
4707.00	---	H		12.66	9.50		-13.00	
5491.50	---	H		13.14	10.27		-13.00	
6276.00	---	H		12.93	11.01		-13.00	
7060.50	---	H		11.63	11.74		-13.00	
7845.00	---	H		11.32	12.41		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13
(16QAM RB 1 Offset 24)**

Operation Mode	: 16QAM LOW Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 779.5 MHz	Test By:	Jazz
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)
41.64	43.58	V	-59.07	-2.31	0.93	-62.32	-13.00	-49.32
90.14	49.62	V	-53.56	-7.75	1.27	-62.58	-13.00	-49.58
107.60	44.08	V	-57.14	-7.77	1.39	-66.30	-13.00	-53.30
340.40	45.99	V	-51.76	-7.69	2.32	-61.78	-13.00	-48.78
396.66	34.52	V	-61.12	-7.66	2.50	-71.28	-13.00	-58.28
568.35	33.66	V	-57.76	-7.77	2.99	-68.52	-13.00	-55.52
776.00	77.73	V	-9.14	-7.87	3.52	-20.53	-13.00	-7.53
2338.50	45.60	V	-56.32	10.15	6.32	-52.50	-13.00	-39.50
3118.00	---	V		11.78	7.43		-13.00	
3897.50	---	V		12.60	8.58		-13.00	
4677.00	---	V		12.66	9.47		-13.00	
5456.50	---	V		13.11	10.24		-13.00	
6236.00	---	V		13.07	10.97		-13.00	
7015.50	---	V		11.64	11.70		-13.00	
7795.00	---	V		11.34	12.38		-13.00	

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

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)
5. Radiated emissions measured were made with an instrument using Peak detector mode with RBW = 1 MHz, VBW = 1MHz

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13
(16QAM RB 1 Offset 24)**

Operation Mode	: 16QAM LOW Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 779.5 MHz	Test By:	Jazz
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)
44.55	45.06	H	-59.70	-1.72	1.00	-62.41	-13.00	-49.41
90.14	47.81	H	-55.92	-7.75	1.27	-64.94	-13.00	-51.94
105.66	44.86	H	-57.55	-7.76	1.39	-66.70	-13.00	-53.70
284.14	38.26	H	-59.89	-7.91	2.11	-69.92	-13.00	-56.92
340.40	44.43	H	-52.86	-7.69	2.32	-62.88	-13.00	-49.88
565.44	35.21	H	-56.20	-7.77	2.98	-66.95	-13.00	-53.95
776.00	77.56	H	-13.89	-7.87	3.52	-25.28	-13.00	-12.28
2338.50	45.48	H	-56.31	10.15	6.32	-52.48	-13.00	-39.48
3118.00	---	H		11.78	7.43		-13.00	
3897.50	---	H		12.60	8.58		-13.00	
4677.00	---	H		12.66	9.47		-13.00	
5456.50	---	H		13.11	10.24		-13.00	
6236.00	---	H		13.07	10.97		-13.00	
7015.50	---	H		11.64	11.70		-13.00	
7795.00	---	H		11.34	12.38		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13
(16QAM RB 1 Offset 24)**

Operation Mode	: 16QAM High Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 784.5 MHz	Test By:	Jazz
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)
41.64	43.98	V	-58.67	-2.31	0.93	-61.92	-13.00	-48.92
90.14	49.94	V	-53.24	-7.75	1.27	-62.26	-13.00	-49.26
107.60	44.60	V	-56.62	-7.77	1.39	-65.78	-13.00	-52.78
284.14	38.12	V	-60.65	-7.91	2.11	-70.67	-13.00	-57.67
340.40	45.14	V	-52.61	-7.69	2.32	-62.63	-13.00	-49.63
568.35	34.65	V	-56.77	-7.77	2.99	-67.53	-13.00	-54.53
776.00	74.79	V	-12.08	-7.87	3.52	-23.47	-13.00	-10.47
2353.50	46.41	V	-55.41	10.14	6.35	-51.61	-13.00	-38.61
3138.00	---	V		11.82	7.47		-13.00	
3922.50	---	V		12.60	8.61		-13.00	
4707.00	---	V		12.66	9.50		-13.00	
5491.50	---	V		13.14	10.27		-13.00	
6276.00	---	V		12.93	11.01		-13.00	
7060.50	---	V		11.63	11.74		-13.00	
7845.00	---	V		11.32	12.41		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1 \text{ MHz}$

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13
(16QAM RB 1 Offset 24)**

Operation Mode	: 16QAM High Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 784.5 MHz	Test By:	Jazz
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)
44.55	46.05	H	-58.71	-1.72	1.00	-61.42	-13.00	-48.42
90.14	48.05	H	-55.68	-7.75	1.27	-64.70	-13.00	-51.70
107.60	44.86	H	-57.35	-7.77	1.39	-66.51	-13.00	-53.51
284.14	37.16	H	-60.99	-7.91	2.11	-71.02	-13.00	-58.02
340.40	44.63	H	-52.66	-7.69	2.32	-62.68	-13.00	-49.68
398.60	36.64	H	-59.81	-7.66	2.51	-69.98	-13.00	-56.98
788.00	76.03	H	-12.86	-7.87	3.55	-24.28	-13.00	-11.28
2353.50	44.48	H	-57.21	10.14	6.35	-53.41	-13.00	-40.41
3138.00	---	H		11.82	7.47		-13.00	
3922.50	---	H		12.60	8.61		-13.00	
4707.00	---	H		12.66	9.50		-13.00	
5491.50	---	H		13.14	10.27		-13.00	
6276.00	---	H		12.93	11.01		-13.00	
7060.50	---	H		11.63	11.74		-13.00	
7845.00	---	H		11.32	12.41		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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**Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13
(QPSK RB 1 Offset 49)**

Operation Mode	: QPSK MID Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 782 MHz	Test By:	Jazz
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)
41.64	43.97	V	-58.68	-2.31	0.93	-61.93	-13.00	-48.93
90.14	50.20	V	-52.98	-7.75	1.27	-62.00	-13.00	-49.00
107.60	44.25	V	-56.97	-7.77	1.39	-66.13	-13.00	-53.13
284.14	38.15	V	-60.62	-7.91	2.11	-70.64	-13.00	-57.64
340.40	45.90	V	-51.85	-7.69	2.32	-61.87	-13.00	-48.87
568.35	34.00	V	-57.42	-7.77	2.99	-68.18	-13.00	-55.18
776.00	70.81	V	-16.06	-7.87	3.52	-27.45	-13.00	-14.45
1710.00	68.13	V	-36.39	9.47	5.33	-32.25	-13.00	-19.25
2346.00	44.98	V	-56.89	10.15	6.34	-53.08	-13.00	-40.08
3128.00	---	V		11.80	7.45		-13.00	
3910.00	---	V		12.60	8.60		-13.00	
4692.00	---	V		12.66	9.49		-13.00	
5474.00	---	V		13.12	10.25		-13.00	
6256.00	---	V		13.00	10.99		-13.00	
7038.00	---	V		11.64	11.72		-13.00	
7820.00	---	V		11.33	12.40		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1 \text{ MHz}$

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**Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13
(QPSK RB 1 Offset 49)**

Operation Mode	: QPSK MID Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 782.0 MHz	Test By:	Jazz
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)
44.55	45.17	H	-59.59	-1.72	1.00	-62.30	-13.00	-49.30
90.14	48.01	H	-55.72	-7.75	1.27	-64.74	-13.00	-51.74
102.75	44.52	H	-58.19	-7.76	1.37	-67.33	-13.00	-54.33
284.14	38.47	H	-59.68	-7.91	2.11	-69.71	-13.00	-56.71
340.40	44.99	H	-52.30	-7.69	2.32	-62.32	-13.00	-49.32
398.60	35.50	H	-60.95	-7.66	2.51	-71.12	-13.00	-58.12
776.00	70.00	H	-21.45	-7.87	3.52	-32.84	-13.00	-19.84
2346.00	45.04	H	-56.70	10.15	6.34	-52.89	-13.00	-39.89
3128.00	---	H		11.80	7.45		-13.00	
3910.00	---	H		12.60	8.60		-13.00	
4692.00	---	H		12.66	9.49		-13.00	
5474.00	---	H		13.12	10.25		-13.00	
6256.00	---	H		13.00	10.99		-13.00	
7038.00	---	H		11.64	11.72		-13.00	
7820.00	---	H		11.33	12.40		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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**Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13
(16QAM RB 1 Offset 49)**

Operation Mode	: 16QAM MID Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 782.0 MHz	Test By:	Jazz
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)
41.64	44.54	V	-58.11	-2.31	0.93	-61.36	-13.00	-48.36
90.14	48.51	V	-54.67	-7.75	1.27	-63.69	-13.00	-50.69
107.60	43.28	V	-57.94	-7.77	1.39	-67.10	-13.00	-54.10
340.40	45.93	V	-51.82	-7.69	2.32	-61.84	-13.00	-48.84
397.63	34.99	V	-60.61	-7.66	2.50	-70.77	-13.00	-57.77
568.35	34.21	V	-57.21	-7.77	2.99	-67.97	-13.00	-54.97
788.00	74.79	V	-11.97	-7.87	3.55	-23.39	-13.00	-10.39
2346.00	45.36	V	-56.51	10.15	6.34	-52.70	-13.00	-39.70
3128.00	---	V		11.80	7.45		-13.00	
3910.00	---	V		12.60	8.60		-13.00	
4692.00	---	V		12.66	9.49		-13.00	
5474.00	---	V		13.12	10.25		-13.00	
6256.00	---	V		13.00	10.99		-13.00	
7038.00	---	V		11.64	11.72		-13.00	
7820.00	---	V		11.33	12.40		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1 \text{ MHz}$

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**Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13
(16QAM RB 1 Offset 49)**

Operation Mode	: 16QAM MID Mode	Test Date:	Dec. 04, 2010
Fundamental Frequency	: 782.0 MHz	Test By:	Jazz
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)
41.64	44.64	H	-58.87	-2.31	0.93	-62.11	-13.00	-49.11
90.14	47.72	H	-56.01	-7.75	1.27	-65.03	-13.00	-52.03
284.14	38.56	H	-59.59	-7.91	2.11	-69.62	-13.00	-56.62
340.40	43.31	H	-53.98	-7.69	2.32	-64.00	-13.00	-51.00
398.60	36.94	H	-59.51	-7.66	2.51	-69.68	-13.00	-56.68
568.35	33.37	H	-57.98	-7.77	2.99	-68.73	-13.00	-55.73
788.00	76.03	H	-12.86	-7.87	3.55	-24.28	-13.00	-11.28
2346.00	45.17	H	-56.57	10.15	6.34	-52.76	-13.00	-39.76
3128.00	---	H		11.80	7.45		-13.00	
3910.00	---	H		12.60	8.60		-13.00	
4692.00	---	H		12.66	9.49		-13.00	
5474.00	---	H		13.12	10.25		-13.00	
6256.00	---	H		13.00	10.99		-13.00	
7038.00	---	H		11.64	11.72		-13.00	
7820.00	---	H		11.33	12.40		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: in 1559 – 1610MHz Band

Operation Mode : 5M QPSK RB1 Offset 24 LOW Mode Test Date: Dec. 04, 2010
 Fundamental Frequency : 779.5 MHz Test By: Jazz
 Temperature : 25°C Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
1559.00	45.46	V	-59.21	9.02	5.08	-55.27	-40.00	-15.27
1559.00	45.00	H	-59.50	9.02	5.08	-55.56	-40.00	-15.56

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 $EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}, VBW = 1 \text{ MHz}$

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Radiated Spurious Emission Measurement Result: in 1559 – 1610MHz Band

Operation Mode : 5M QPSK RB1 Offset 24High Mode Test Date: Dec. 04, 2010
 Fundamental Frequency : 784.5 MHz Test By: Jazz
 Temperature : 25°C Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
1569.00	45.36	V	-59.30	9.05	5.09	-55.35	-40.00	-15.35
1569.00	44.85	H	-59.64	9.05	5.09	-55.69	-40.00	-15.69

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 $EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}, VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: in 1559 – 1610MHz Band

Operation Mode : 5M 16QAM RB1 Offset 24 Low Mode Test Date: Dec. 04, 2010
 Fundamental Frequency : 779.5 MHz Test By: Jazz
 Temperature : 25°C Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
1559.00	46.00	V	-58.67	9.02	5.08	-54.73	-40.00	-14.73
1559.00	45.98	H	-58.52	9.02	5.08	-54.58	-40.00	-14.58

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 $EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}, VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: in 1559 – 1610MHz Band

Operation Mode : 5M 16QAM RB1 Offset 24 High Mode Test Date: Dec. 04, 2010
 Fundamental Frequency : 784.5 MHz Test By: Jazz
 Temperature : 25°C Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
1569.00	44.60	V	-60.06	9.05	5.09	-56.11	-40.00	-16.11
1569.00	44.07	H	-60.42	9.05	5.09	-56.47	-40.00	-16.47

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 $EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: in 1559 – 1610MHz Band

Operation Mode : 10M QPSK RB1 Offset 49 Mid Mode Test Date: Dec. 04, 2010
 Fundamental Frequency : 782 MHz Test By: Jazz
 Temperature : 25°C Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
1564.00	44.89	V	-59.78	9.03	5.09	-55.83	-40.00	-15.83
1564.00	45.39	H	-59.11	9.03	5.09	-55.16	-40.00	-15.16

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 $EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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Radiated Spurious Emission Measurement Result: in 1559 – 1610MHz Band

Operation Mode : 10M 16QAM RB1 Offset 49 Mid Mode Test Date: Dec. 04, 2010
 Fundamental Frequency : 782 MHz Test By: Jazz
 Temperature : 25°C Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
1564.00	44.69	V	-59.98	9.03	5.09	-56.03	-40.00	-16.03
1564.00	40.16	H	-64.34	9.03	5.09	-60.39	-40.00	-20.39

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 $EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$
5. Radiated emissions measured were made with an instrument using Peak detector mode with $RBW = 1 \text{ MHz}$, $VBW = 1\text{MHz}$

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8. SPURIOUS RADIATED EMISSION TEST (RX)

8.1. Standard Applicable

According to RSS 132 §4.6, all spurious emissions shall comply with the limits of Table 2. The resolution bandwidth of the spectrum analyzer shall be 100 kHz for spurious emissions measurements below 1.0 GHz, and 1.0 MHz for measurements above 1.0 GHz.

Frequency (MHz)	Field strength $\mu\text{V}/\text{m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V}/\text{m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

According to RSS 133 §6.6, Receiver spurious emissions shall comply with the limits specified in RSS-Gen.

8.2. EUT Setup

1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was put in the front of the test table. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The spacing between the peripherals was 10 centimeters.
4. External I/O cables were draped along the edge of the test table and bundle when necessary.
5. The host was connected with 110Vac/60Hz power source.

8.3. Measurement Procedure

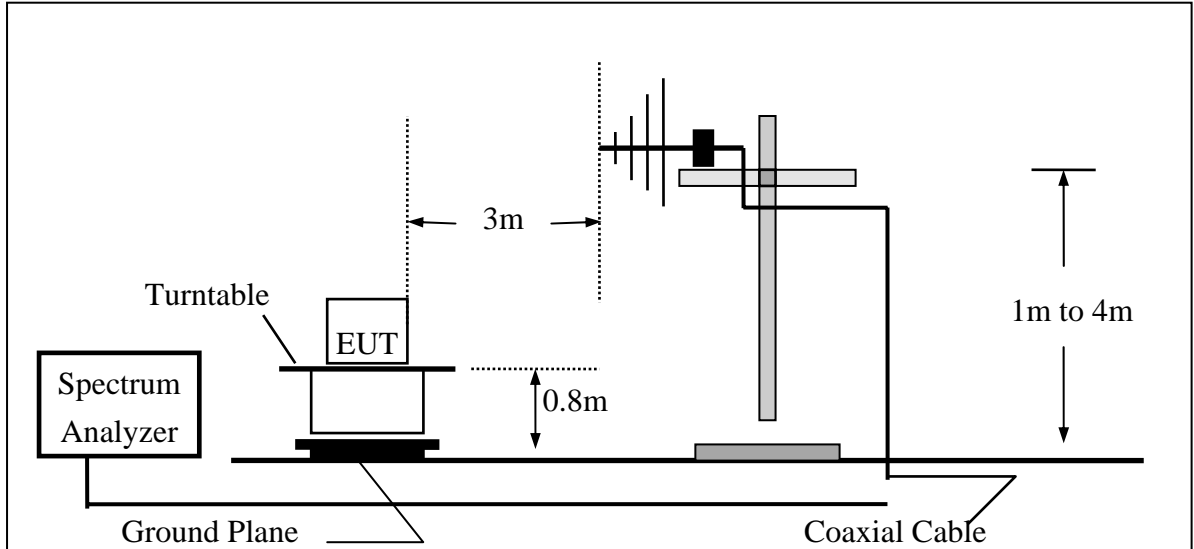
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Repeat above procedures until all frequency measured were complete.

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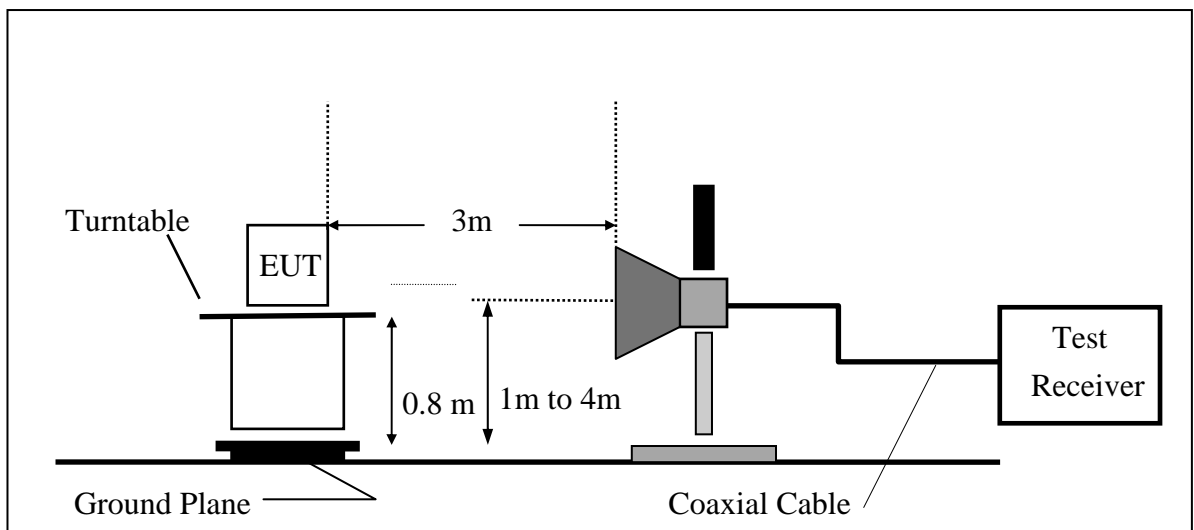
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8.4. Test SET-UP (Block Diagram of Configuration)

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



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8.5. Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2010	11/18/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2009	03/08/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
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	09/06/2010	09/05/2011

8.6. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

8.7. Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result (below 1GHz) (worst case for each band)

Operation Mode:	GPRS 850 RX CH Low Mode	Test Date	Dec. 04, 2010
Fundamental Frequency	824.20 MHz	Test By	Jazz
Temperature:	25 °C	Pol	Ver./Hor
Humidity:	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
107.60	V	Peak	46.29	-16.41	29.88	43.50	-13.62
260.86	V	Peak	36.30	-13.63	22.67	46.00	-23.33
284.14	V	Peak	38.11	-13.28	24.83	46.00	-21.17
340.40	V	Peak	40.26	-12.01	28.25	46.00	-17.75
565.44	V	Peak	34.62	-7.15	27.47	46.00	-18.53
681.84	V	Peak	34.39	-4.99	29.40	46.00	-16.60
107.60	H	Peak	39.72	-16.41	23.31	43.50	-20.19
340.40	H	Peak	37.90	-12.01	25.89	46.00	-20.11
398.60	H	Peak	36.04	-10.05	25.99	46.00	-20.01
621.70	H	Peak	33.19	-5.55	27.64	46.00	-18.36
679.90	H	Peak	34.74	-4.99	29.75	46.00	-16.25
794.36	H	Peak	34.95	-3.16	31.79	46.00	-14.21

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: GPRS 850 RX CH Mid Mode
Fundamental Frequency: 836.60 MHz
Temperature: 25 °C
Humidity: 65 %

Test Date: Dec. 04, 2010
Test By: Jazz
Pol: Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
90.14	V	Peak	51.75	-17.62	34.13	43.50	-9.37
255.04	V	Peak	38.78	-13.69	25.09	46.00	-20.91
340.40	V	Peak	39.34	-12.01	27.33	46.00	-18.67
364.65	V	Peak	36.38	-11.23	25.15	46.00	-20.85
519.85	V	Peak	37.38	-8.13	29.25	46.00	-16.75
679.90	V	Peak	34.00	-4.99	29.01	46.00	-16.99
93.05	H	Peak	40.51	-17.35	23.16	43.50	-20.34
255.04	H	Peak	38.37	-13.69	24.68	46.00	-21.32
284.14	H	Peak	39.72	-13.28	26.44	46.00	-19.56
340.40	H	Peak	37.89	-12.01	25.88	46.00	-20.12
393.75	H	Peak	37.17	-10.21	26.96	46.00	-19.04
679.90	H	Peak	34.15	-4.99	29.16	46.00	-16.84

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: GPRS 850 RX CH High Mode
Fundamental Frequency 848.80MHz
Temperature: 25 °C
Humidity: 65 %

Test Date Dec. 04, 2010
Test By Jazz
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
107.60	V	Peak	46.21	-16.41	29.80	43.50	-13.70
255.04	V	Peak	38.39	-13.69	24.70	46.00	-21.30
284.14	V	Peak	35.55	-13.28	22.27	46.00	-23.73
340.40	V	Peak	40.38	-12.01	28.37	46.00	-17.63
568.35	V	Peak	35.10	-7.04	28.06	46.00	-17.94
679.90	V	Peak	34.04	-4.99	29.05	46.00	-16.95
93.05	H	Peak	40.85	-17.35	23.50	43.50	-20.00
260.86	H	Peak	37.14	-13.63	23.51	46.00	-22.49
284.14	H	Peak	38.26	-13.28	24.98	46.00	-21.02
398.60	H	Peak	36.81	-10.05	26.76	46.00	-19.24
513.06	H	Peak	35.18	-8.32	26.86	46.00	-19.14
681.84	H	Peak	34.70	-4.99	29.71	46.00	-16.29

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: GPSR1900 RX CH Low Mode
Fundamental Frequency: 1850.2MHz
Temperature: 25 °C
Humidity: 65 %

Test Date: Dec. 04, 2010
Test By: Jazz
Pol: Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
107.60	V	Peak	46.21	-16.41	29.80	43.50	-13.70
255.04	V	Peak	38.83	-13.69	25.14	46.00	-20.86
284.14	V	Peak	38.73	-13.28	25.45	46.00	-20.55
340.40	V	Peak	39.96	-12.01	27.95	46.00	-18.05
568.35	V	Peak	33.77	-7.04	26.73	46.00	-19.27
679.90	V	Peak	34.48	-4.99	29.49	46.00	-16.51
66.86	H	Peak	39.54	-15.34	24.20	40.00	-15.80
284.14	H	Peak	39.23	-13.28	25.95	46.00	-20.05
340.40	H	Peak	37.74	-12.01	25.73	46.00	-20.27
398.60	H	Peak	37.49	-10.05	27.44	46.00	-18.56

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: GPSR1900 RX CH Mid Mode
Fundamental Frequency: 1880.00MHz
Temperature: 25 °C
Humidity: 65 %

Test Date: Dec. 04, 2010
Test By: Jazz
Pol: Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
255.04	V	Peak	37.12	-13.69	23.43	46.00	-22.57
284.14	V	Peak	38.84	-13.28	25.56	46.00	-20.44
340.40	V	Peak	40.07	-12.01	28.06	46.00	-17.94
388.90	V	Peak	34.43	-10.38	24.05	46.00	-21.95
568.35	V	Peak	34.65	-7.04	27.61	46.00	-18.39
681.84	V	Peak	33.83	-4.99	28.84	46.00	-17.16
107.60	H	Peak	39.77	-16.41	23.36	43.50	-20.14
284.14	H	Peak	40.58	-13.28	27.30	46.00	-18.70
332.64	H	Peak	38.82	-12.16	26.66	46.00	-19.34
388.90	H	Peak	35.33	-10.38	24.95	46.00	-21.05
510.15	H	Peak	34.84	-8.37	26.47	46.00	-19.53
679.90	H	Peak	33.14	-4.99	28.15	46.00	-17.85

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: GPSR1900 RX CH High Mode
Fundamental Frequency: 1909.80MHz
Temperature: 25 °C
Humidity: 65 %

Test Date: Dec. 04, 2010
Test By: Jazz
Pol: Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
255.04	V	Peak	36.79	-13.69	23.10	46.00	-22.90
284.14	V	Peak	38.90	-13.28	25.62	46.00	-20.38
340.40	V	Peak	37.76	-12.01	25.75	46.00	-20.25
388.90	V	Peak	34.84	-10.38	24.46	46.00	-21.54
568.35	V	Peak	33.66	-7.04	26.62	46.00	-19.38
681.84	V	Peak	34.35	-4.99	29.36	46.00	-16.64
93.05	H	Peak	42.22	-17.35	24.87	43.50	-18.63
260.86	H	Peak	35.72	-13.63	22.09	46.00	-23.91
284.14	H	Peak	38.57	-13.28	25.29	46.00	-20.71
340.40	H	Peak	36.75	-12.01	24.74	46.00	-21.26
396.66	H	Peak	36.02	-10.12	25.90	46.00	-20.10
681.84	H	Peak	34.18	-4.99	29.19	46.00	-16.81

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz) (worst case for each band)

Operation Mode:	GPRS 850 RX CH Low	Test Date	Dec. 04, 2010
Fundamental Frequency:	824.2 MHz	Test By	Jazz
Temperature:	25°C	Pol	Ver./ Hor.
Humidity:	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1648.4	V	38.22	--	-5.13	33.09	--	74.00	54.00	-20.91	H
2472.6	V	--	--			--	74.00	54.00		H
3296.8	V	--	--			--	74.00	54.00		H
4121.0	V	--	--			--	74.00	54.00		H
4945.2	V	--	--			--	74.00	54.00		H
1648.4	H	36.08	--	-5.18	30.90	--	74.00	54.00	-23.10	H
2472.6	H	--	--			--	74.00	54.00		H
3296.8	H	--	--			--	74.00	54.00		H
4121.0	H	--	--			--	74.00	54.00		H
4945.2	H	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode:	GPRS 850 RX CH Mid	Test Date	Dec. 04, 2010
Fundamental Frequency:	836.60 MHz	Test By	Jazz
Temperature:	25 °C	Pol	Ver./ Hor.
Humidity:	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1673.2	V	36.33	--	-5.08	31.25	--	74.00	54.00	-22.75	H
2509.8	V	--	--			--	74.00	54.00		H
3346.4	V	--	--			--	74.00	54.00		H
4183.0	V	--	--			--	74.00	54.00		H
5019.6	V	--	--			--	74.00	54.00		H
1673.2	H	36.54	--	-5.08	31.46	--	74.00	54.00	-22.54	H
2509.8	H	--	--			--	74.00	54.00		H
3346.4	H	--	--			--	74.00	54.00		H
4183.0	H	--	--			--	74.00	54.00		H
5019.6	H	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: GPRS 850 RX CH High
Fundamental Frequency: 848.80MHz
Temperature: 25°C
Humidity: 65 %

Test Date: Dec. 04, 2010
Test By: Jazz
Pol: Ver./ Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1697.6	V	35.74	--	-4.96	30.78	--	74.00	54.00	-23.22	H
2546.4	V	--	--			--	74.00	54.00		H
3395.2	V	--	--			--	74.00	54.00		H
4244.0	V	--	--			--	74.00	54.00		H
5092.8	V	--	--			--	74.00	54.00		H
1697.6	H	36.10	--	-4.96	31.14	--	74.00	54.00	-22.86	H
2546.4	H	--	--			--	74.00	54.00		H
3395.2	H	--	--			--	74.00	54.00		H
4244.0	H	--	--			--	74.00	54.00		H
5092.8	H	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: GPRS 1900 RX CH Low
Fundamental Frequency: 1850.2MHz
Temperature: 25 °C
Humidity: 65 %

Test Date: Dec. 04, 2010
Test By: Jazz
Pol: Hor

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3700.4	V	34.76	--	2.72	37.48	--	74.00	54.00	-16.52	H
5550.6	V	--	--			--	74.00	54.00		H
7400.8	V	--	--			--	74.00	54.00		H
9251.0	V	--	--			--	74.00	54.00		H
11101.2	V	--	--			--	74.00	54.00		H
3700.4	H	34.03	--	2.72	36.75	--	74.00	54.00	-17.25	H
5550.6	H	--	--			--	74.00	54.00		H
7400.8	H	--	--			--	74.00	54.00		H
9251.0	H	--	--			--	74.00	54.00		H
11101.2	H	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode:	GPRS 1900 RX CH Mid	Test Date	Dec. 04, 2010
Fundamental Frequency:	1880.0MHz	Test By	Jazz
Temperature:	25°C	Pol	Ver.
Humidity:	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3760.0	V	34.30	--	2.83	37.13	--	74.00	54.00	-16.87	H
5640.0	V	--	--			--	74.00	54.00		H
7520.0	V	--	--			--	74.00	54.00		H
9400.0	V	--	--			--	74.00	54.00		H
11280.0	V	--	--			--	74.00	54.00		H
3760.0	H	34.12	--	2.88	37.00	--	74.00	54.00	-17.00	H
5640.0	H	--	--			--	74.00	54.00		H
7520.0	H	--	--			--	74.00	54.00		H
9400.0	H	--	--			--	74.00	54.00		H
11280.0	H	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: GPRS 1900 RX CH High
Fundamental Frequency: 1909.8MHz
Temperature: 25 °C
Humidity: 65 %

Test Date: Dec. 04, 2010
Test By: Jazz
Pol: Hor

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3819.6	V	34.42	--	3.08	37.50	--	74.00	54.00	-16.50	H
5729.4	V	--	--			--	74.00	54.00		H
7639.2	V	--	--			--	74.00	54.00		H
9549.0	V	--	--			--	74.00	54.00		H
11458.8	V	--	--			--	74.00	54.00		H
3819.6	H	33.96	--	3.08	37.04	--	74.00	54.00	-16.96	H
5729.4	H	--	--			--	74.00	54.00		H
7639.2	H	--	--			--	74.00	54.00		H
9549.0	H	--	--			--	74.00	54.00		H
11458.8	H	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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