

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H
CLASS II PC REPORT***OF*

Product Name: QD8
Marketing Name: BF-01D
Brand Name: NTT Docomo
Model No.: BF-01D
Model Difference: N/A
FCC ID: HFS-QD8
Report No.: EH/2011/40018-01
Issue Date: Jan. 12, 2012
FCC Rule Part: 2 , 22H
Prepared for: Quanta Computer Inc.
No.188, Wen Hwa 2nd Road , Kuei Shan
Hsiang Tao Yuan Shien, Taiwan

Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Quanta Computer Inc.
 No.188, Wen Hwa 2nd Road , Kuei Shan Hsiang Tao Yuan Shien,
 Taiwan

Equipment Under Test: QD8

Brand / Marketing Name: NTT Docomo / BF-01D

Model No.: BF-01D

Model Difference: N/A

FCC ID: HFS-QD8

File Number: EH/2011/40018-01

Date of test: Apr. 13, 2011~ May, 20, 2011

Date of EUT Received: Apr. 13, 2011

We hereby certify that:

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

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

Test By:	<i>Jazz Huang</i>	Date:	Jan. 12, 2012
	_____ <i>Jazz Huang / Engineer</i>		_____
Prepared By:	<i>Judy Hsu</i>	Date:	Jan. 12, 2012
	_____ <i>Judy Hsu / Clerk</i>		_____
Approved By:	<i>Jim Chang</i>	Date:	Jan. 12, 2012
	_____ <i>Jim Chang / Supervisor</i>		_____

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Version

Version No.	Date	Description
00	Jan. 12, 2012	Initial creation of document

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1 GENERAL INFORMATION

General:

Product Name:	QD8	
Marketing Name:	BF-01D	
Brand Name:	NTT Docomo	
Model No.:	BF-01D	
Model Difference:	N/A	
Data Cable:	Model: N/A, Supplier: N/A	
Hardware Version:	V5	
Software Version:	V1.83 (R2.47) BF-01D_111220_001WWE_3050	
Power Supply:	3.7V Li-Ion Battery or 5V by AC/DC power adapter	
	Battery:	Model: O31A, Supplier: BUFFALO
	Adaptor:	Model: FU05-9050100-A1, Supplier: LEADER
Class II Permissive change	1. Disable European band (1922.4~1977.6MHz) from Software control to hardware implementation (CL circuitry / C = 6.8pF; L=0.556nH) 2. Enclosure enlargement 20mm length	

WCDMA & HSDPA/HSUPA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	WCDMA/HSUPA/HSDPA Band V	826.4 - 846.6 MHz	24dBm
Type of Emission:	22H(8PSK): 826.4 - 846.6 MHz: 4M20F9W		
IMEI:	001010123456063		

Test mode	DC voltage (V)	DC current (mA)
WCDMA B5	3.7 Vdc	715
HUSPA B5	3.7 Vdc	678
HUDPA B5	3.7 Vdc	690

This test report applies for WCDMA/HSUPA/HSDPA Band V bands.

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1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **HFS-QD8** filing to comply with Section Part 22 subpart H.

1.2 Test Methodology

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

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.

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):

According to measurement procured TIA/EIA 603C and TIA/EIA IS-98 for Mobile stations. The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements.

A standard antenna was used to replace the EUT and connect to the SG. Adjust the SG output level to reach the max emission level which were measured above.

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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	01/25/2011	01/24/2012
Radio Communication Analyzer	R&S	CMU200	111787	12/07/2009	12/06/2011
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2011	01/04/2012
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2011	01/04/2012
Temperature Chamber	TERCHY	MHG-120LF	911009	04/30/2010	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

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2009	11/18/2011
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2010	07/16/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2010	07/16/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	01/22/2010	01/21/2012
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	01/05/2011	01/04/2012
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
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	12/07/2009	12/06/2011
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	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2011	01/04/2012
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011

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2.5. Configuration of Tested System

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

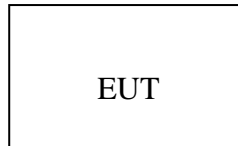


Fig. 2-2 Configuration of Tested System (Remote Side)

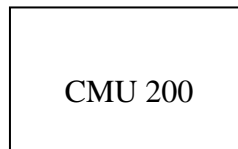


Table 2-1 Equipment Used in Tested System

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

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a)	RF Conducted Power Output	Compliant
§2.1046(a) §22.913(a)	ERP/EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a)	Out of Band Emissions at Antenna Terminals	Compliant
§2.1053 §22.917(a)	Field Strength of Spurious Radiation (TX)	Compliant
§2.1055(a)(1) §22.355	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355	Frequency Stability vs. Voltage	Compliant

Max ERP/EIRP measurement result:

	dBm	dB	W
WCDMA B5 Band	22.94	ERP	0.197
HSDPA B5 Band	23.27	ERP	0.212
HSUPA B5 Band	22.92	ERP	0.196

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4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

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

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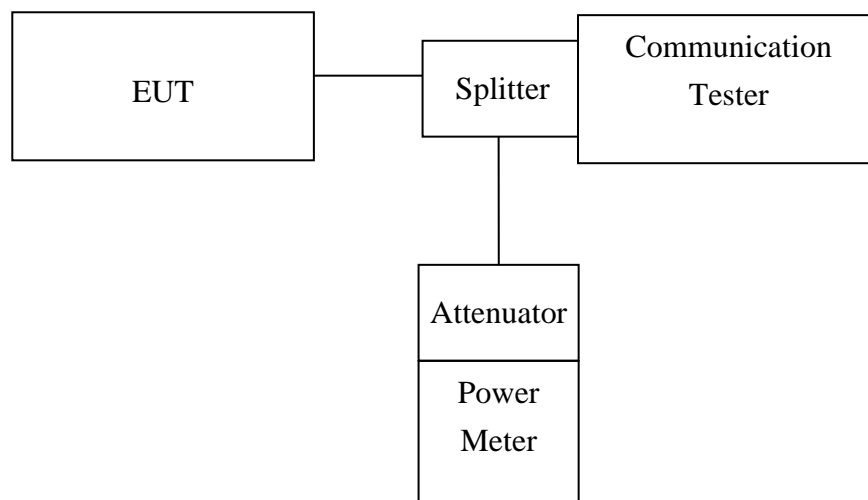
5 RF POWER OUTPUT MEASUREMENT

5.1 Standard Applicable

According to FCC §2.1046.

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

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.

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: WCDMA mode

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

Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band V	826.40	4132	26.44	23.07
	836.60	4183	26.20	23.03
	846.60	4233	26.20	22.93

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

Note: Offset 1 dB

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5.5.1.2: HSDPA Release 8 mode

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

HSDPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

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

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		Channel				
		4132	4172	4233		
HSDPA B5	1	22.86	22.89	23.05	20.3dBm – 25.7dBm	Pass
	2	23.00	22.92	22.80	20.3dBm – 25.7dBm	Pass
	3	22.40	22.41	22.56	19.8dBm – 25.7dBm	Pass
	4	22.45	22.45	22.62	19.8dBm – 25.7dBm	Pass

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5.5.1.3: HSPA (HSDPA & HSUPA) Release 6 mode

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

HSPA SUB-TEST Setting

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

Sub-test	β_c	β_a	β_a (SF)	β_c/β_a	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		Channel				
		4132	4172	4233		
HSUPA B5	1	23.03	22.96	22.85	17.3dBm – 25.7dBm	Pass
	2	21.09	21.04	20.89	16.8dBm – 25.7dBm	Pass
	3	22.07	22.02	21.93	17.8dBm – 25.7dBm	Pass
	4	21.14	21.10	20.97	16.8dBm – 25.7dBm	Pass
	5	22.89	22.79	22.74	17.3dBm – 25.7dBm	Pass

WCDMA/HSDPA band V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 15 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. The power variation can be 0.1dB step by setting.

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6 ERP, EIRP MEASUREMENT

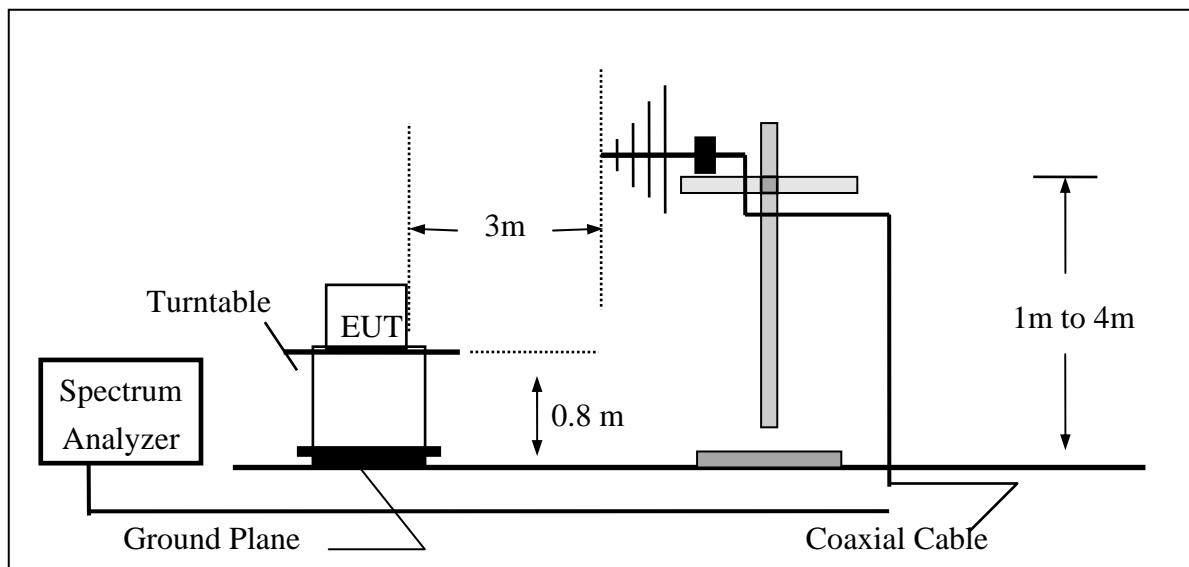
6.1 Standard Applicable

According to FCC §2.1046

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

6.2 Test SET-UP (Block Diagram of Configuration)

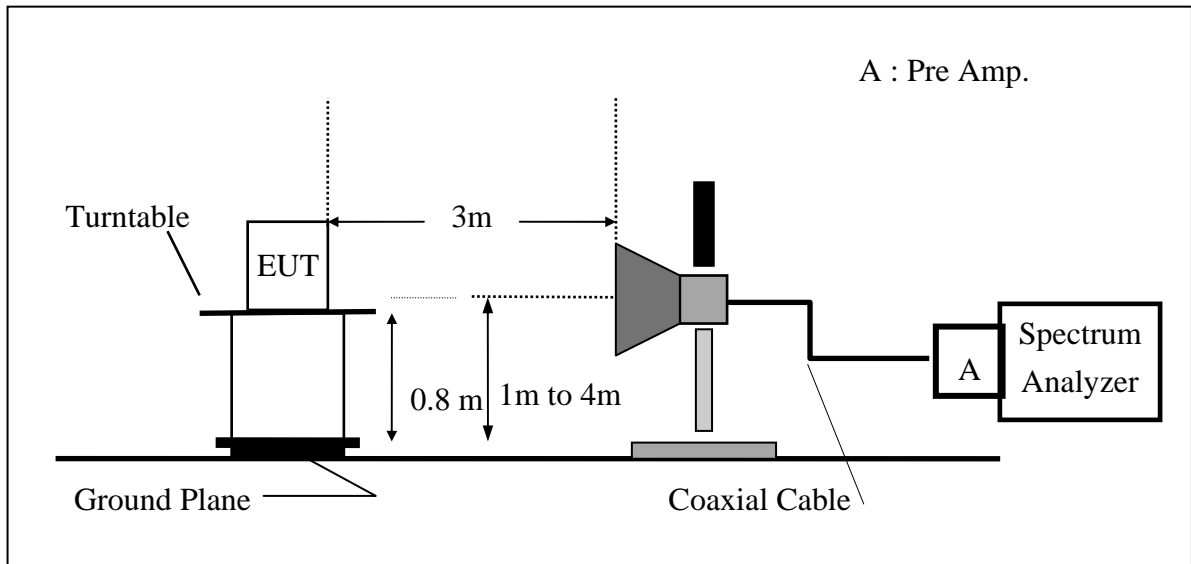
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



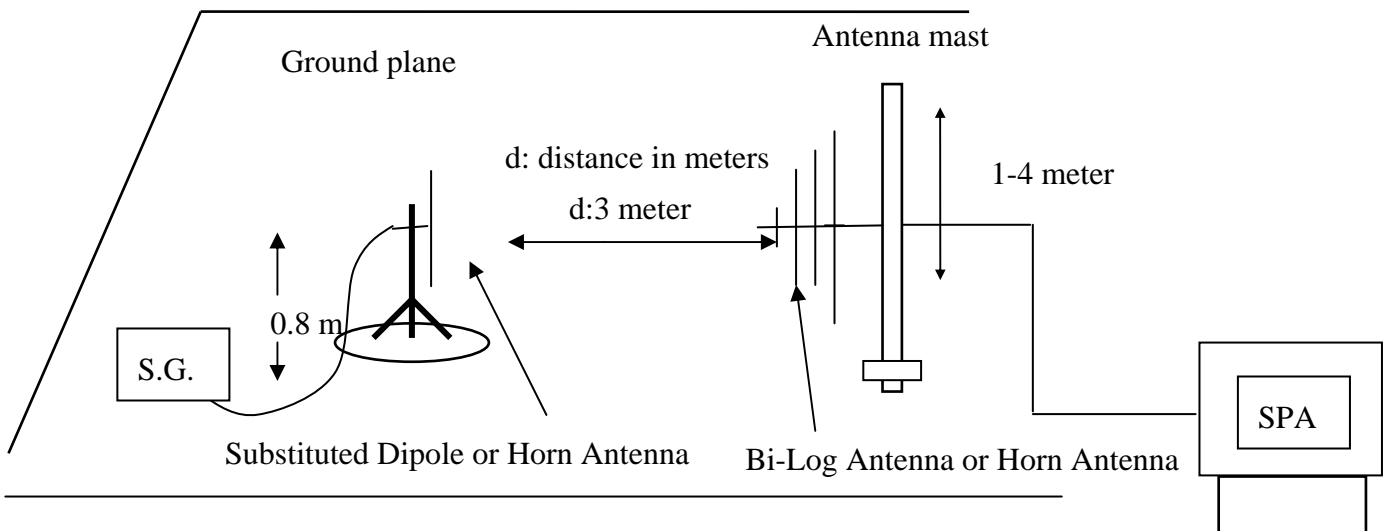
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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

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

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

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 (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	
WCDMA Band V	826.40	4132	H	V	121.16	34.80	-10.02	3.63	21.15	38.45	
				H	112.61	26.35	-10.02	3.63	12.71	38.45	
			E1	V	114.13	27.77	-10.02	3.63	14.12	38.45	
				H	121.46	35.20	-10.02	3.63	21.56	38.45	
			E2	V	108.15	21.79	-10.02	3.63	8.15	38.45	
				H	122.84	36.58	-10.02	3.63	22.94	38.45	
		836.60	4183	H	V	121.54	35.28	-10.02	3.65	21.61	38.45
					H	113.38	27.15	-10.02	3.65	13.48	38.45
				E1	V	113.70	27.44	-10.02	3.65	13.77	38.45
					H	121.97	35.74	-10.02	3.65	22.07	38.45
				E2	V	108.31	22.05	-10.02	3.65	8.38	38.45
					H	122.78	36.55	-10.02	3.65	22.88	38.45
	846.60	4233	H	V	121.74	35.59	-10.02	3.67	21.90	38.45	
				H	114.03	27.83	-10.02	3.67	14.14	38.45	
			E1	V	113.54	27.38	-10.02	3.67	13.69	38.45	
				H	122.43	36.23	-10.02	3.67	22.54	38.45	
			E2	V	108.82	22.67	-10.02	3.67	8.98	38.45	
				H	122.51	36.31	-10.02	3.67	22.62	38.45	

Remark :

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

RBW= 5MHz , VBW= 8MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)		
HSDPA Band V	826.40	4132	H	V	122.87	36.51	-10.02	3.63	22.86	38.45		
				H	115.35	29.09	-10.02	3.63	15.45	38.45		
			E1	V	118.58	32.22	-10.02	3.63	18.57	38.45		
				H	120.10	33.84	-10.02	3.63	20.20	38.45		
			E2	V	108.57	22.22	-10.02	3.63	8.57	38.45		
				H	123.17	36.91	-10.02	3.63	23.27	38.45		
			836.60	4183	H	V	123.20	36.94	-10.02	3.65	23.27	38.45
						H	115.88	29.65	-10.02	3.65	15.98	38.45
					E1	V	118.81	32.55	-10.02	3.65	18.88	38.45
						H	120.18	33.95	-10.02	3.65	20.28	38.45
					E2	V	108.41	22.16	-10.02	3.65	8.49	38.45
						H	123.10	36.87	-10.02	3.65	23.20	38.45
	846.60	4233			H	V	122.93	36.78	-10.02	3.67	23.09	38.45
						H	115.98	29.78	-10.02	3.67	16.09	38.45
					E1	V	118.73	32.57	-10.02	3.67	18.88	38.45
						H	119.93	33.73	-10.02	3.67	20.04	38.45
					E2	V	108.84	22.68	-10.02	3.67	8.99	38.45
						H	122.91	36.71	-10.02	3.67	23.02	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSUPA Band V	826.40	4132	H	V	122.34	35.98	-10.02	3.63	22.33	38.45
				H	114.33	28.07	-10.02	3.63	14.43	38.45
			E1	V	117.25	30.89	-10.02	3.63	17.24	38.45
				H	119.10	32.84	-10.02	3.63	19.20	38.45
			E2	V	107.09	20.74	-10.02	3.63	7.09	38.45
				H	121.09	34.83	-10.02	3.63	21.19	38.45
		4183	H	V	122.61	36.35	-10.02	3.65	22.68	38.45
				H	115.10	28.87	-10.02	3.65	15.20	38.45
			E1	V	117.77	31.51	-10.02	3.65	17.84	38.45
				H	119.22	32.99	-10.02	3.65	19.32	38.45
			E2	V	107.65	21.40	-10.02	3.65	7.73	38.45
				H	121.37	35.14	-10.02	3.65	21.47	38.45
	846.60	4233	H	V	122.76	36.61	-10.02	3.67	22.92	38.45
				H	115.41	29.21	-10.02	3.67	15.52	38.45
			E1	V	117.55	31.39	-10.02	3.67	17.70	38.45
				H	119.22	33.02	-10.02	3.67	19.33	38.45
			E2	V	107.51	21.35	-10.02	3.67	7.66	38.45
				H	120.98	34.78	-10.02	3.67	21.09	38.45

Remark :

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

RBW= 5MHz , VBW= 8MHz

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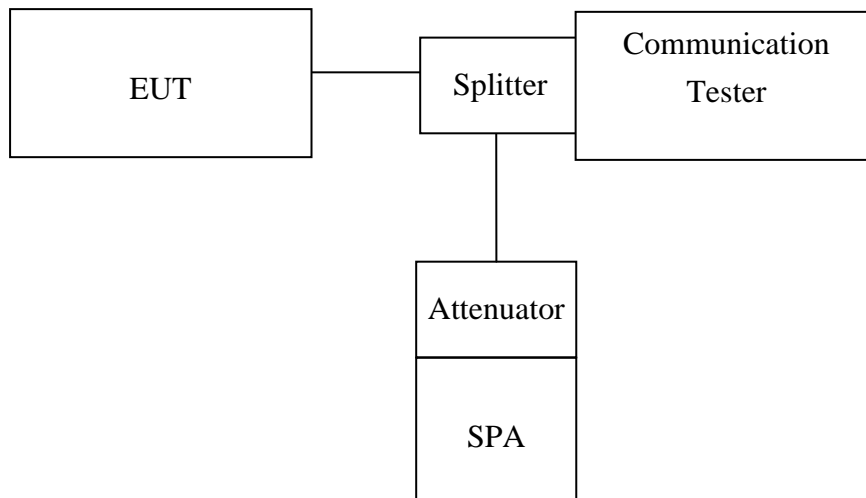
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7 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to FCC§2.1049(h).

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

7.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5 Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band V	826.40	4132	4.1330
	836.60	4183	4.1349
	846.60	4233	4.1467

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA B5 Band V	826.40	4132	4.1228
	836.60	4183	4.1428
	846.60	4233	4.1305

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Figure 7-1: WCDMA B5Channel Low

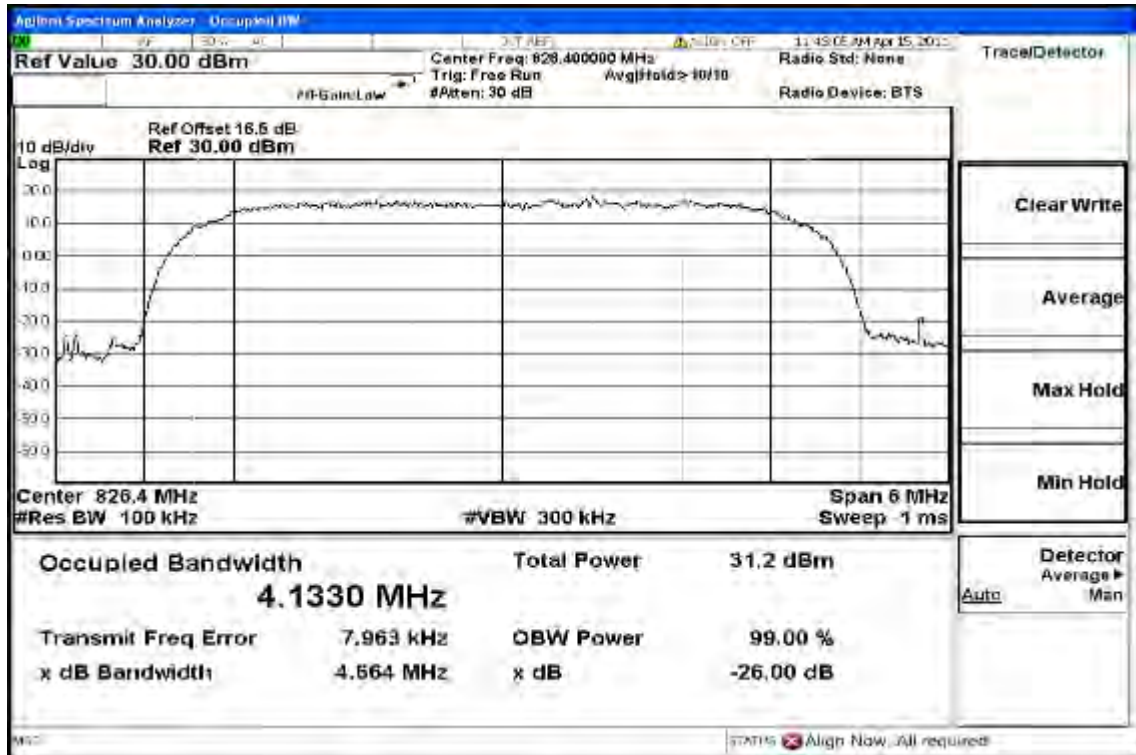
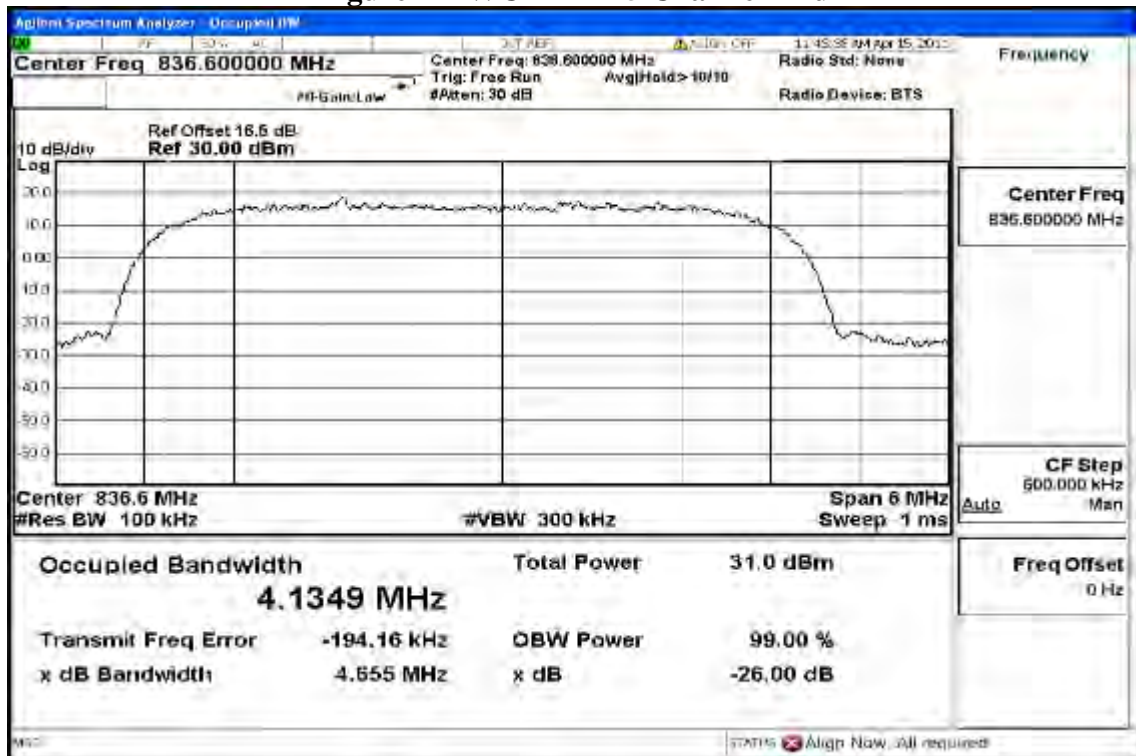


Figure 7-2 WCDMA B5 Channel Mid



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Figure 7-3: WCDMA B5 Channel High

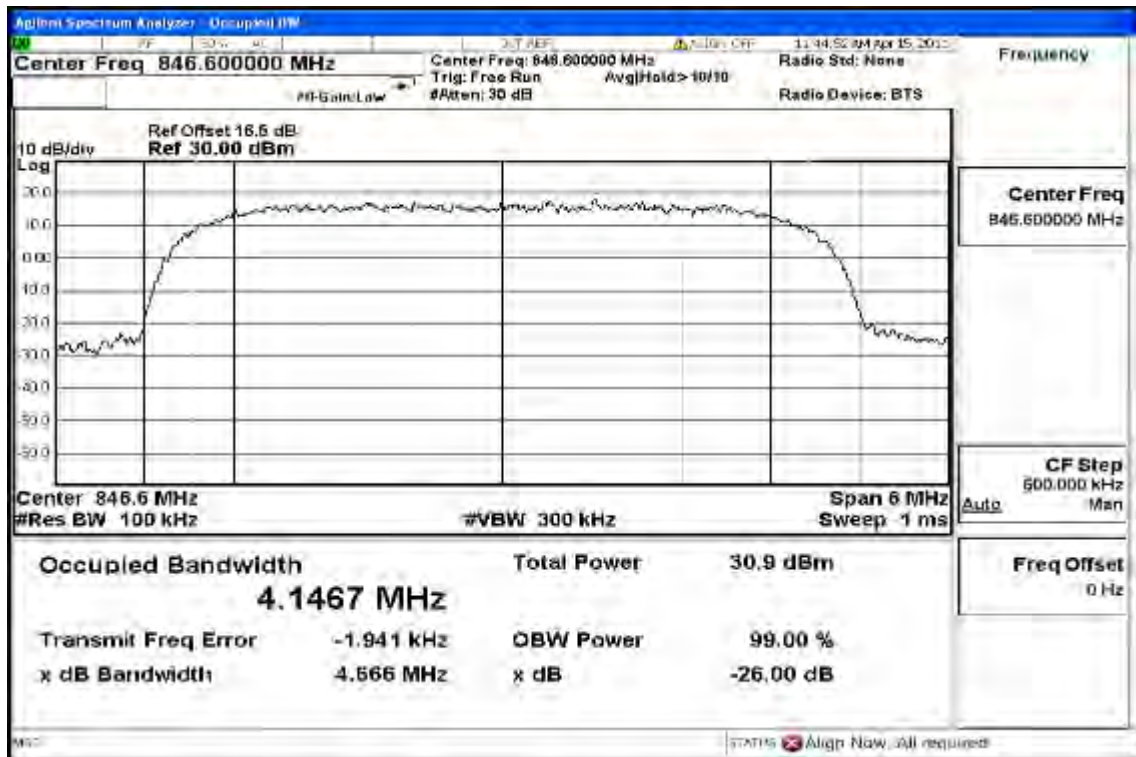
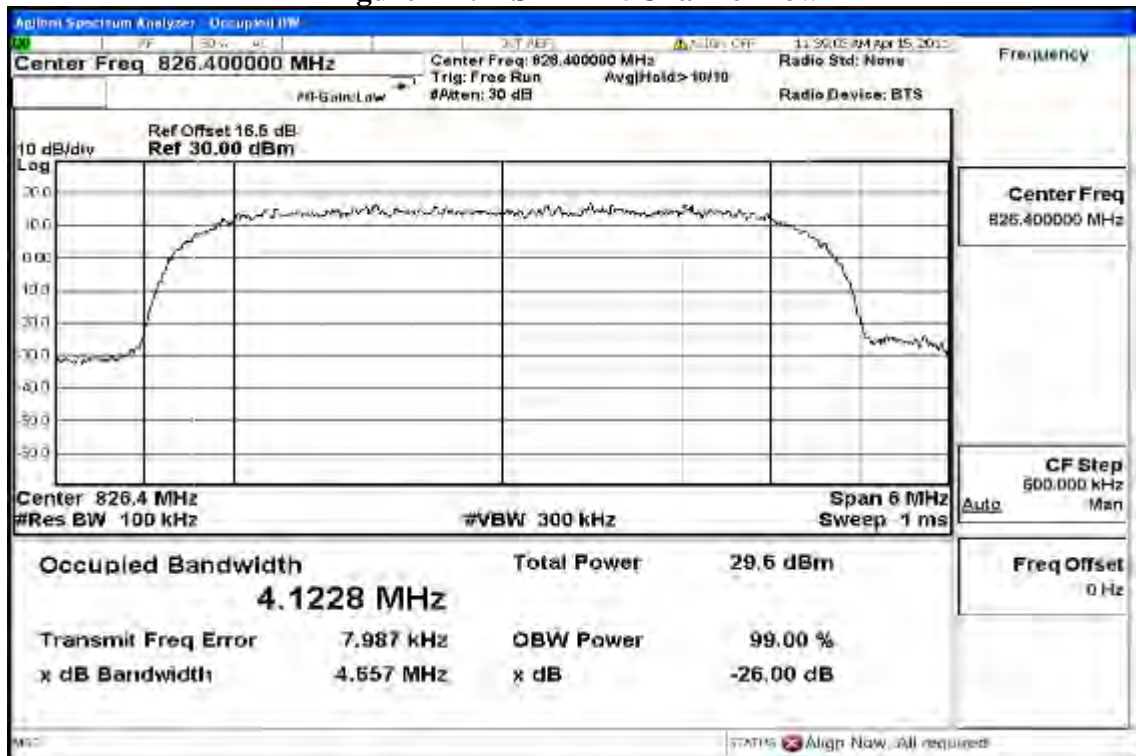


Figure 7-4: HSDPA B5Channel Low



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Figure 7-5 HSDPA B5 Channel Mid

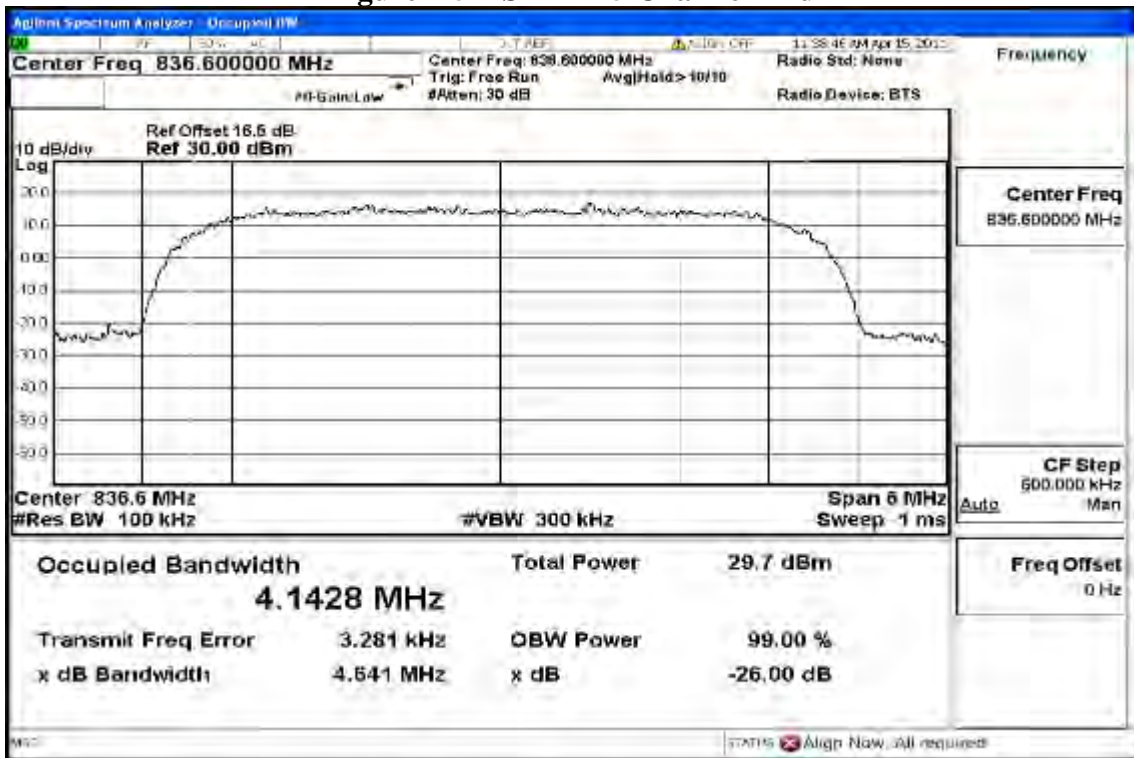
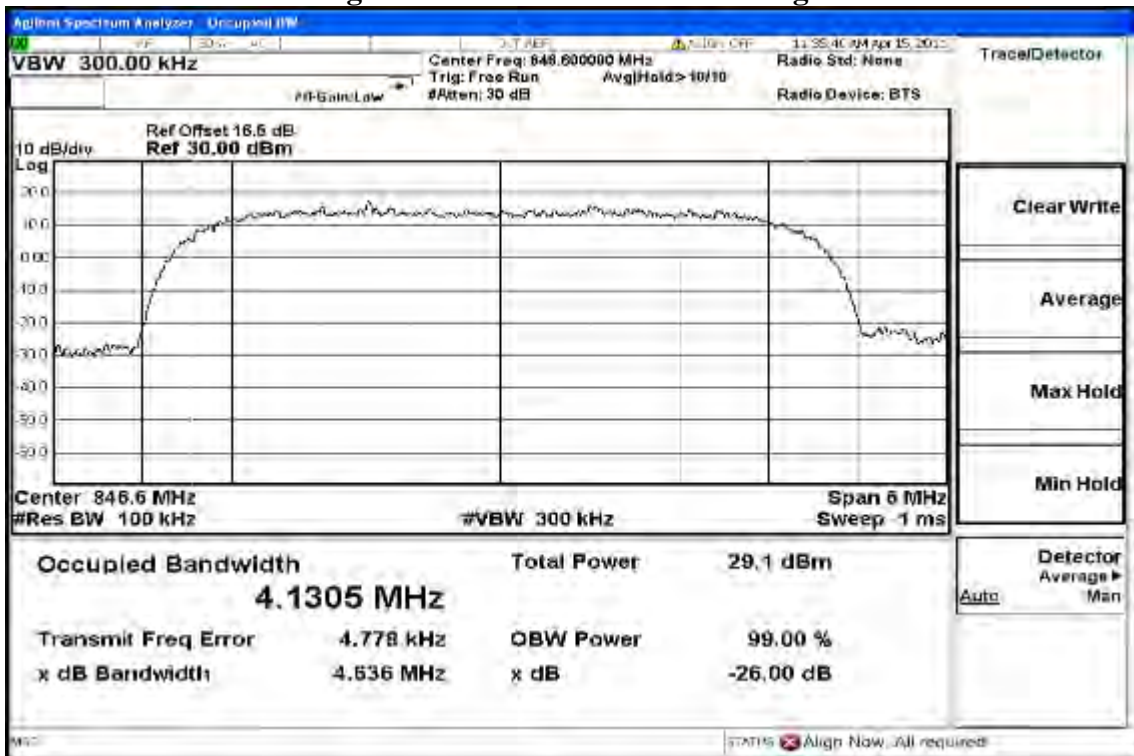


Figure 7-6: HSDPA B5 Channel High



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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

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

8.2 Test SET-UP

Refer to section 7.2 in this report

8.3 Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

8.4 Measurement Equipment Used:

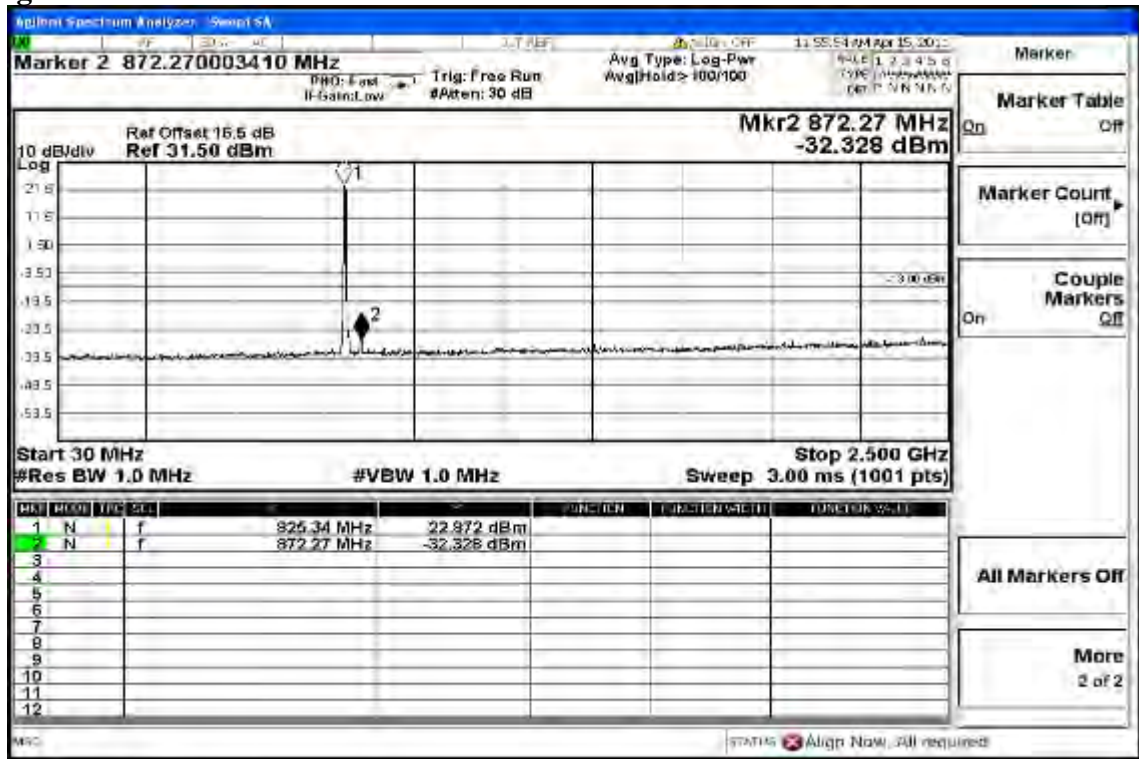
Refer to section 2.4 in this report

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8.5 Measurement Result

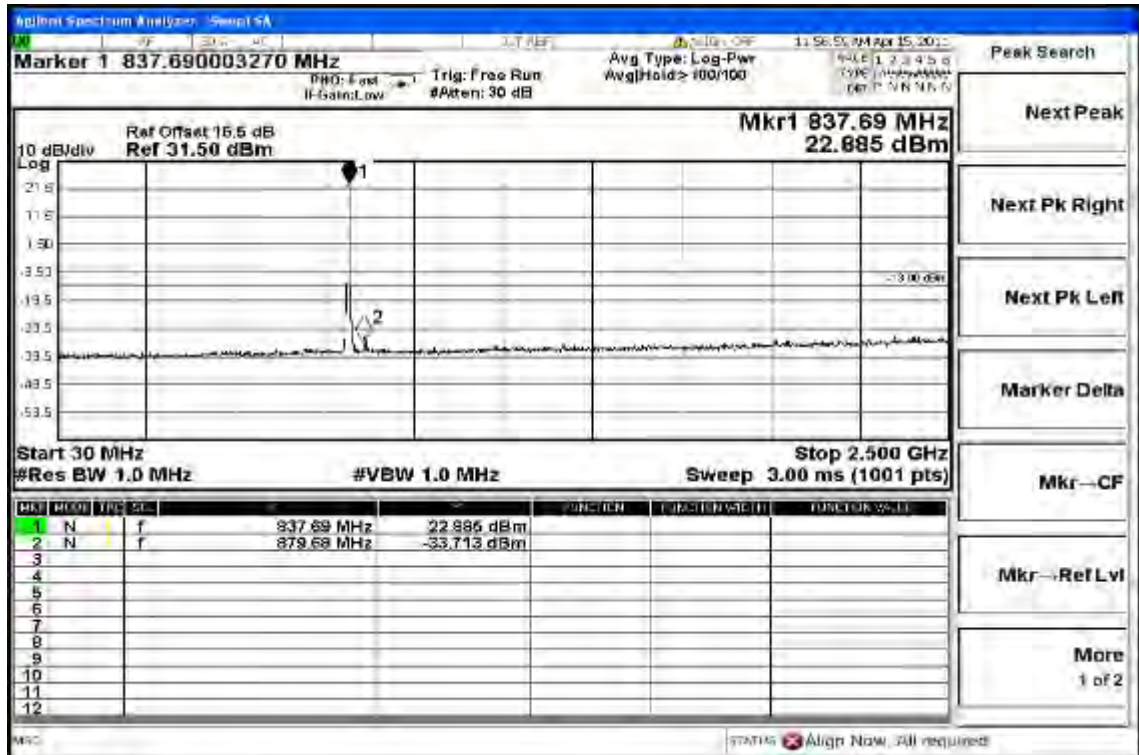
Figure 8-1: Out of Band emission at antenna terminals– WCDMA B5 Channel Lowest



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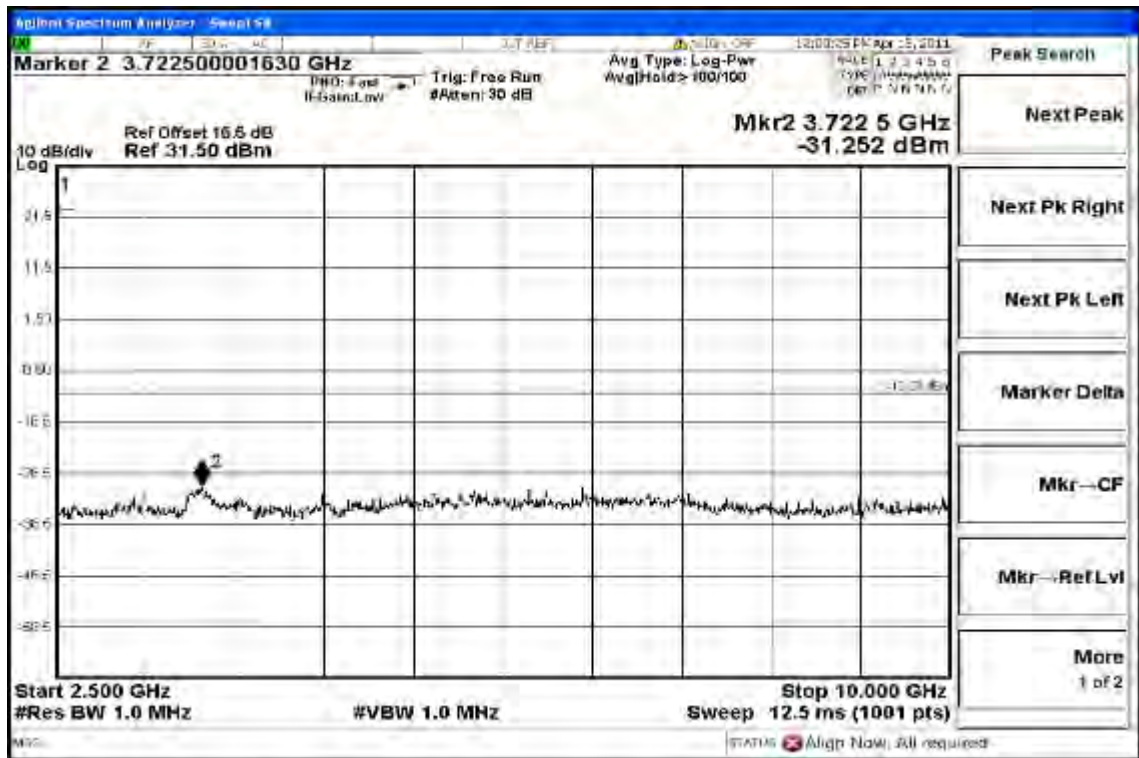
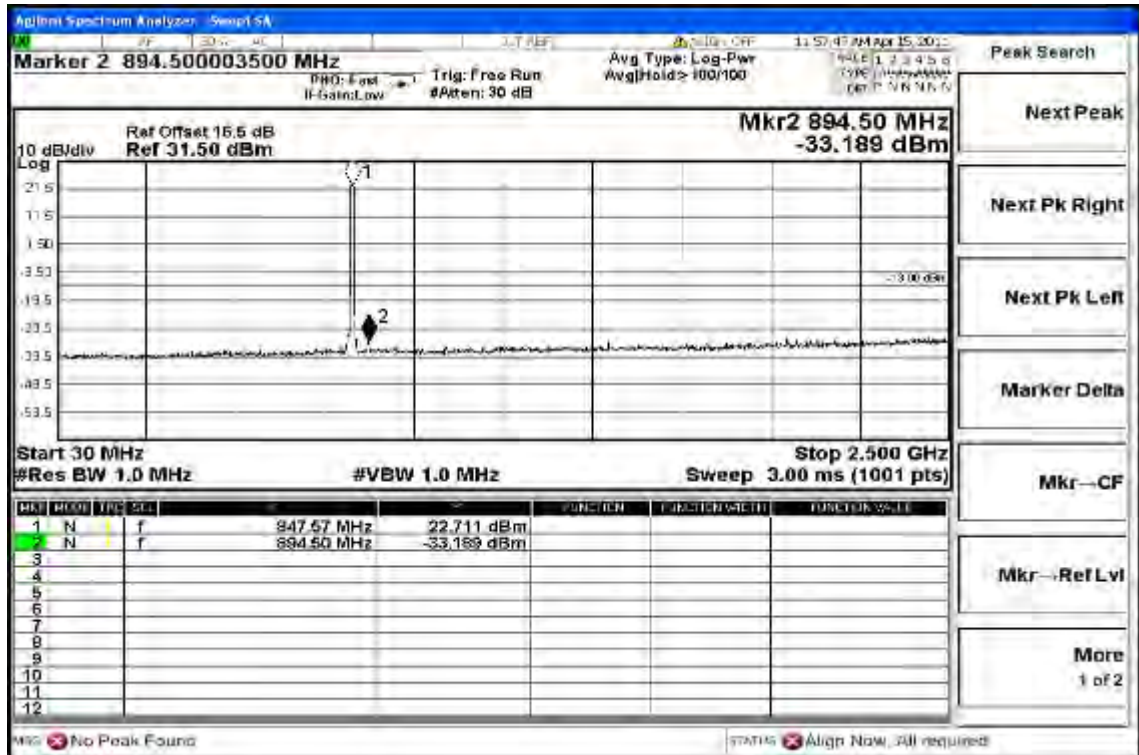
Figure 8-2: Out of Band emission at antenna terminals –WCDMA B5 Channel Mid



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Figure 8-3: Out of Band emission at antenna terminals–WCDMA B5 Channel Highest



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Figure 8-4: Band edge emission at antenna terminals –WCDMA B5 Channel Lowest

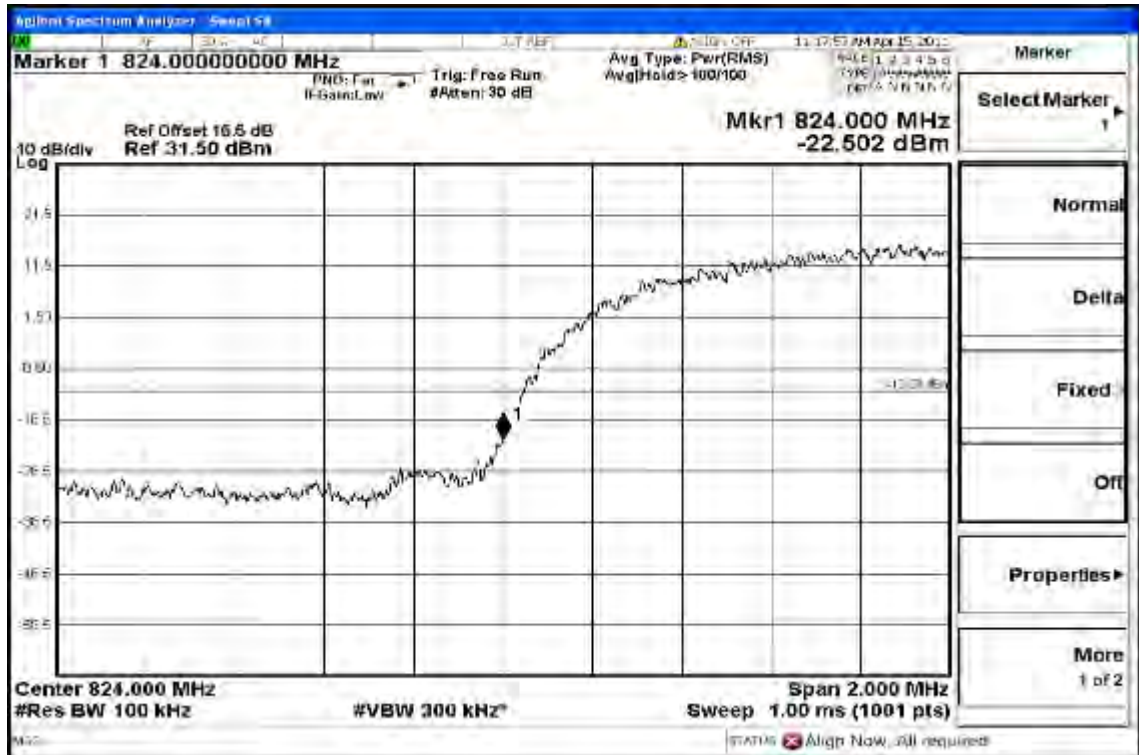
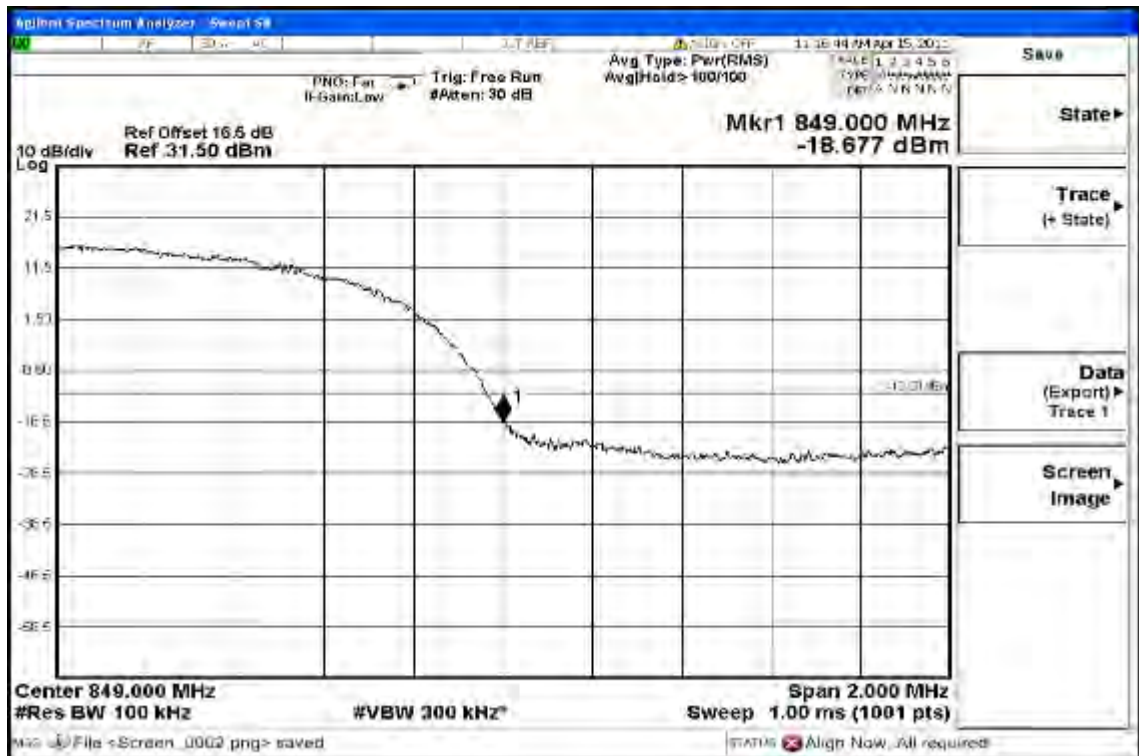


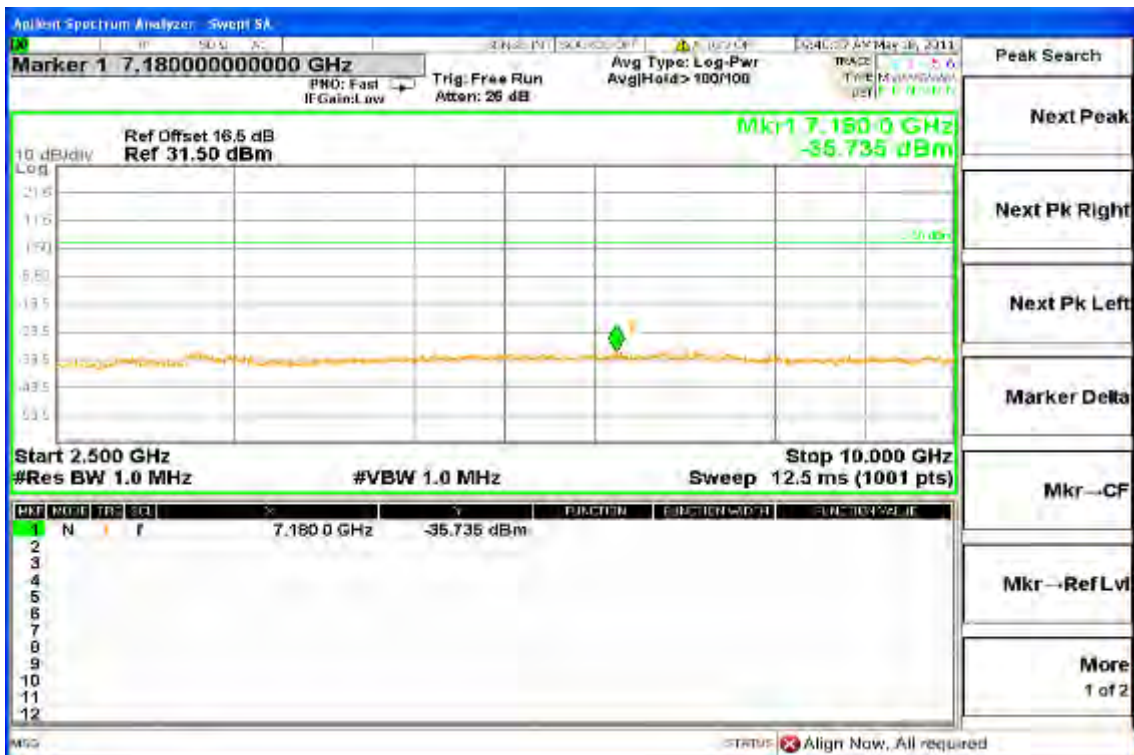
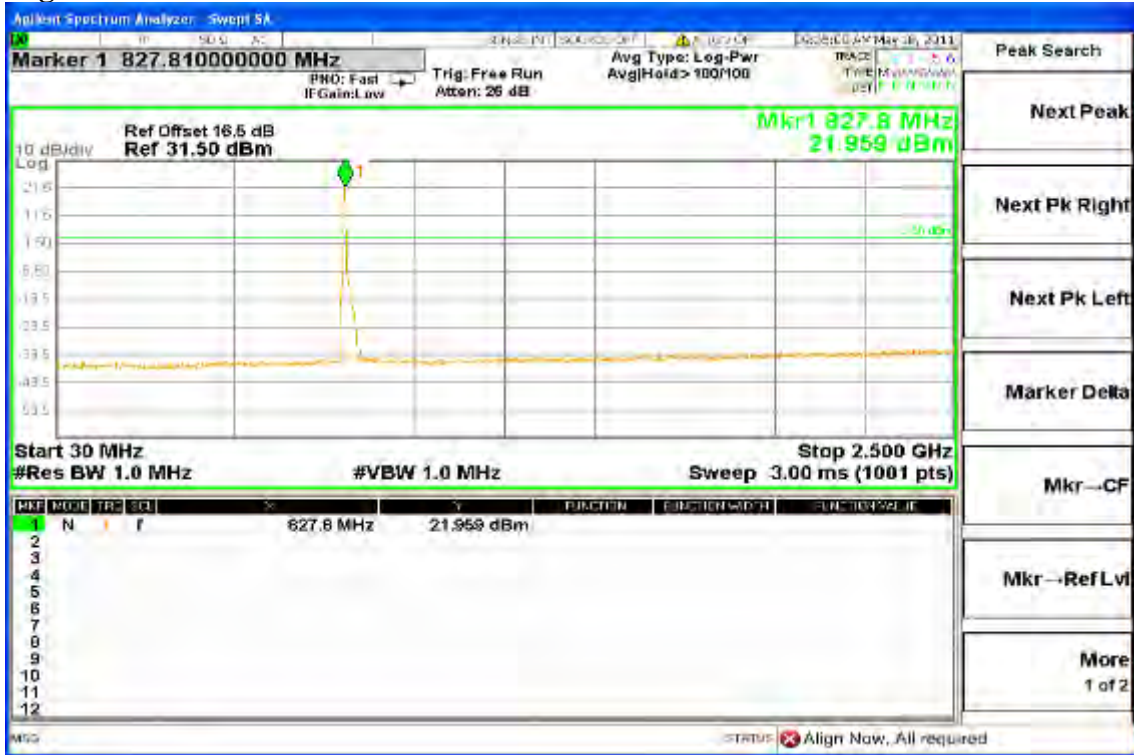
Figure 8-5: Band edge emission at antenna terminals –WCDMA B5 Channel Highest



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Figure 8-8: Out of Band emission at antenna terminals–HSDPA B5 Channel Lowest



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Figure 8-9: Out of Band emission at antenna terminals –HSDPA B5 Channel Mid



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Figure 8-10: Out of Band emission at antenna terminals–HSDPA B5 Channel Highest



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Figure 8-11: Band edge emission at antenna terminals –HSDPA B5 Channel Lowest

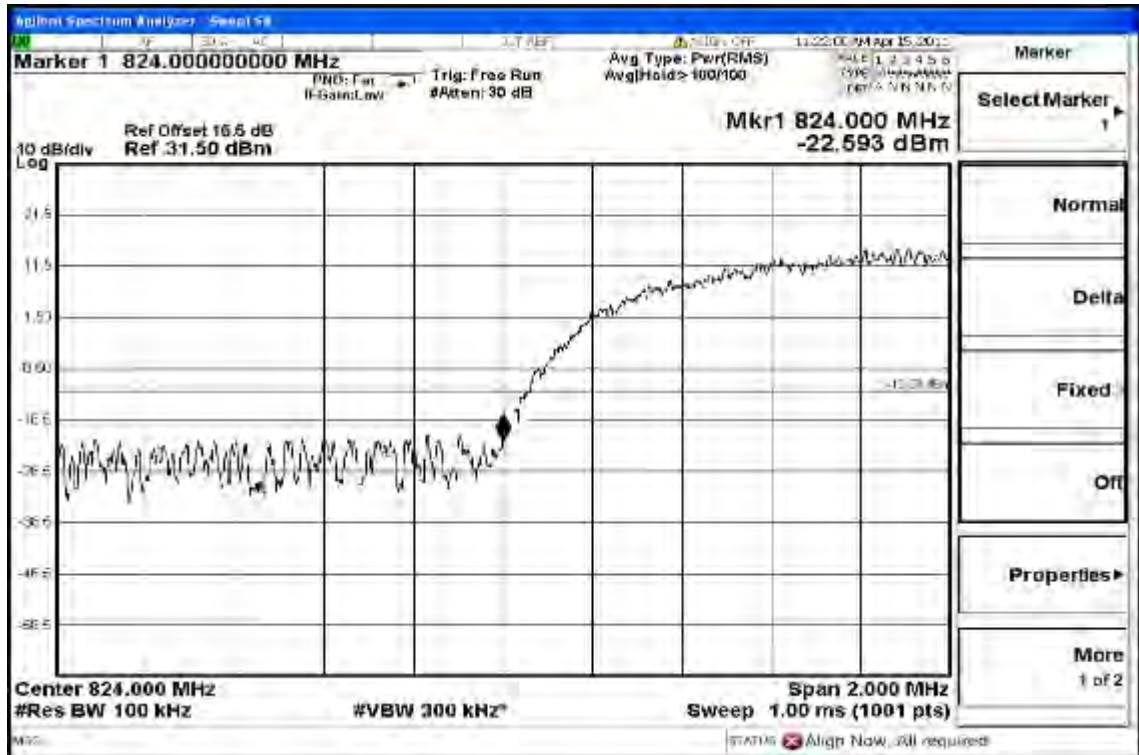
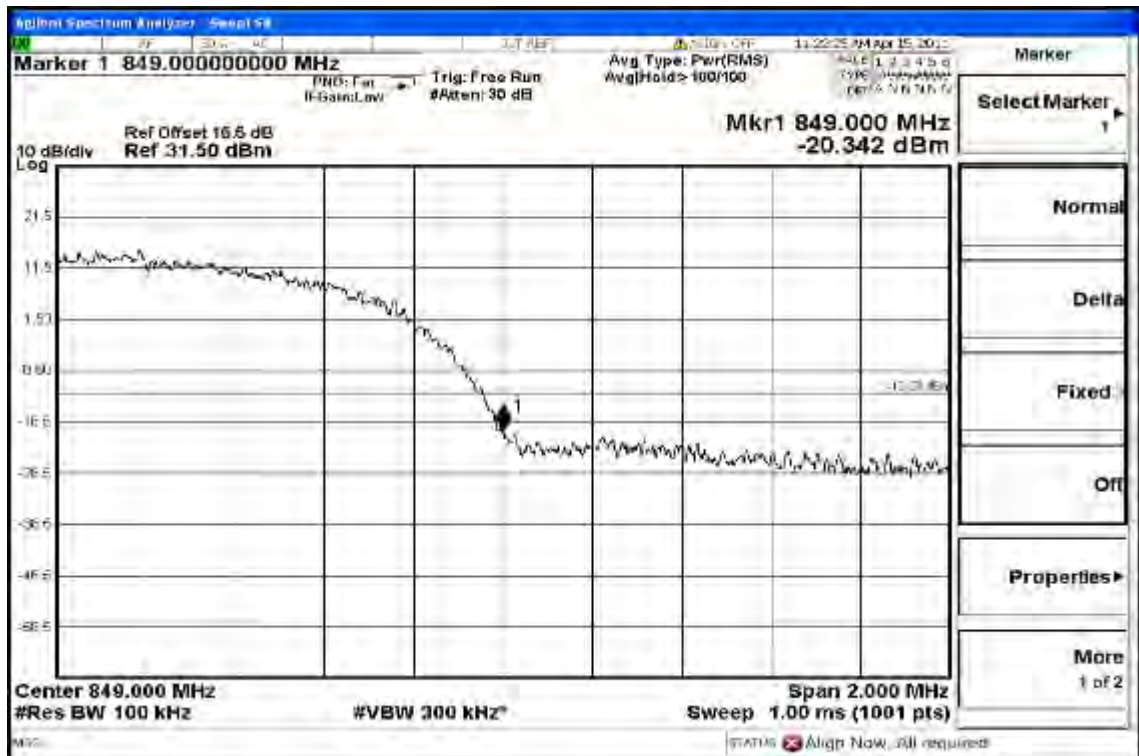


Figure 8-12: Band edge emission at antenna terminals –HSDPA B5 Channel Highest



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

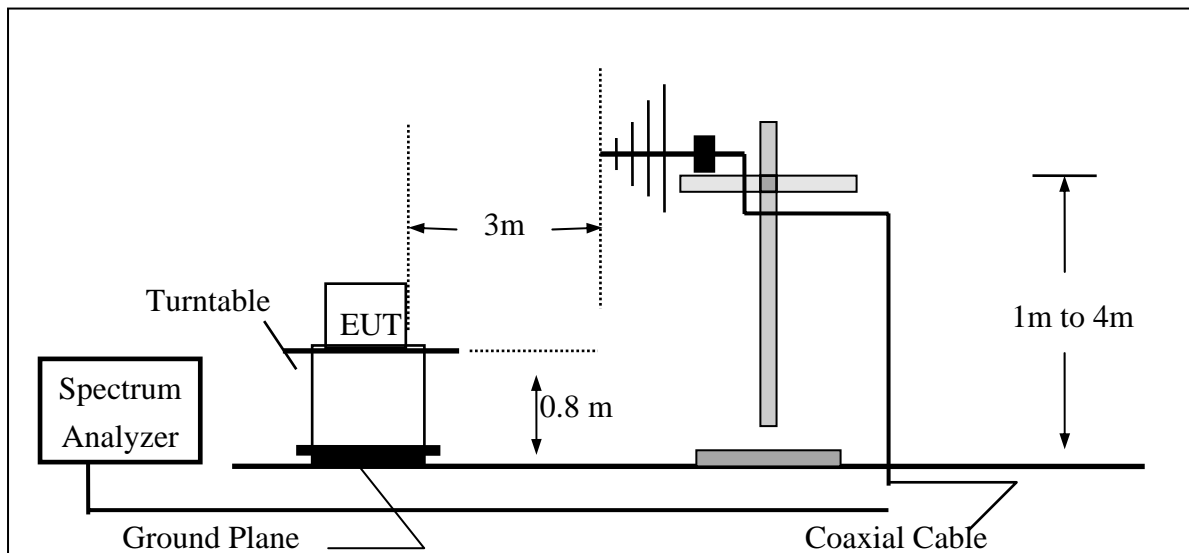
9.1 Standard Applicable

According to FCC §2.1053,

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

9.2 EUT Setup (Block Diagram of Configuration)

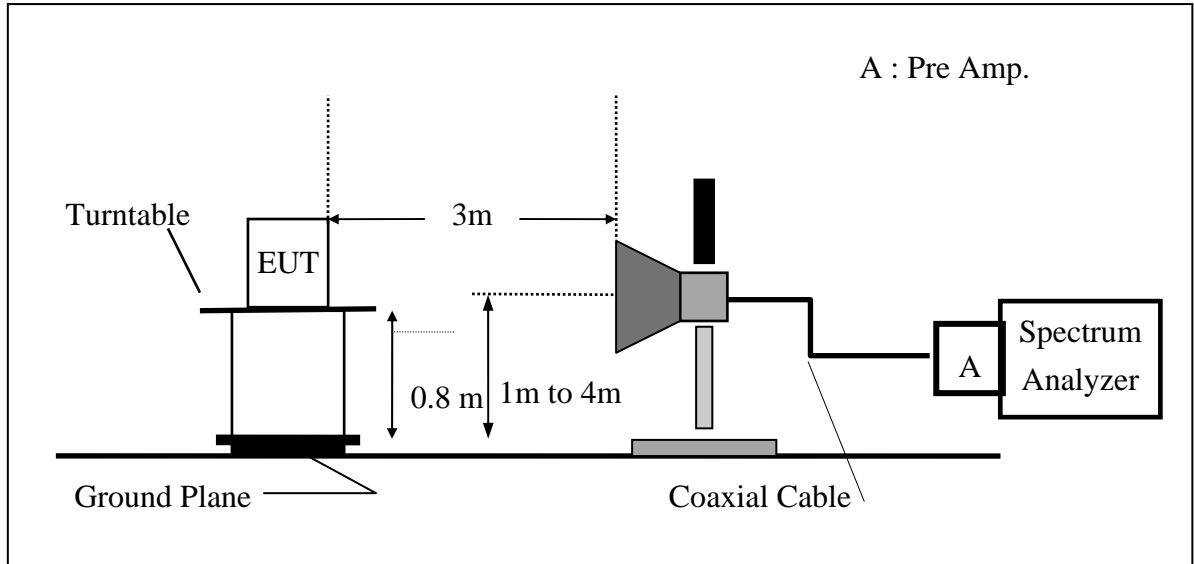
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



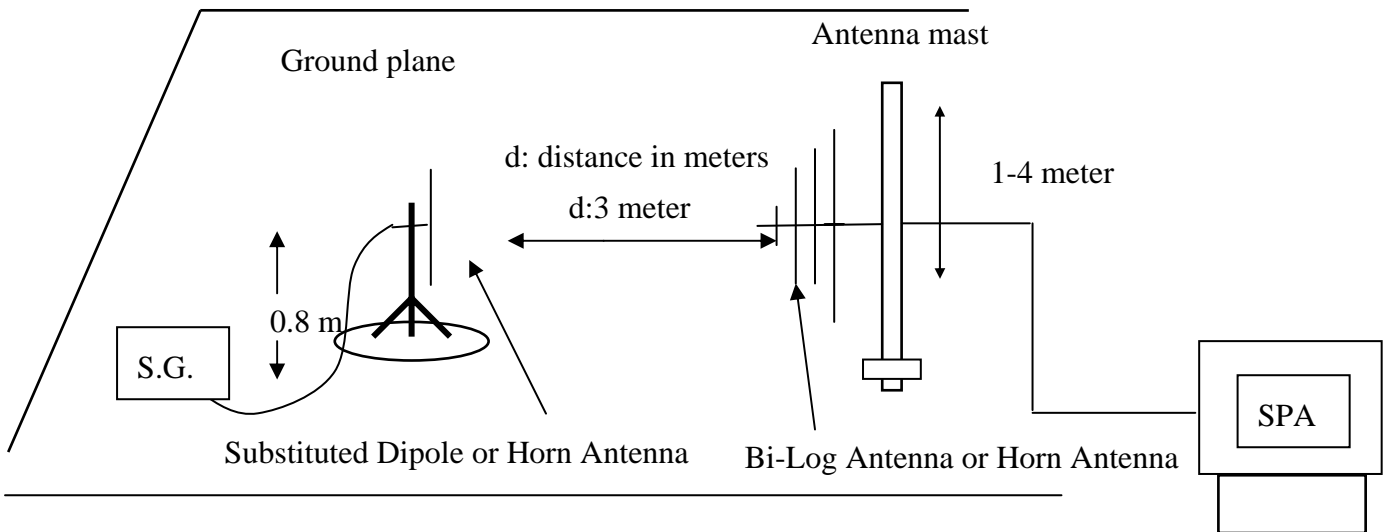
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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9.3 Measurement Procedure

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

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

ERP in frequency band 824 –850 MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

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

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

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

9.4 Measurement Equipment Used:

Refer to section 2.4 in this report

9.5 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: HSDPA B5 Mode

Operation Mode	: TX CH Low Mode	Test Date:	May. 18, 2011
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
167.74	33.72	V	-65.16	-9.95	1.63	-76.75	-13.00	-63.75
219.15	34.56	V	-66.50	-10.00	1.82	-78.31	-13.00	-65.31
335.55	32.46	V	-65.35	-9.86	2.31	-77.52	-13.00	-64.52
555.74	33.13	V	-59.02	-9.90	2.97	-71.90	-13.00	-58.90
699.30	33.63	V	-55.80	-10.00	3.29	-69.09	-13.00	-56.09
963.14	34.13	V	-50.19	-10.14	3.92	-64.24	-13.00	-51.24
1652.80	39.66	V	-64.92	9.30	5.23	-60.85	-13.00	-47.85
2479.20	---	V		10.07	6.54		-13.00	
3305.60	---	V		12.19	7.73		-13.00	
4132.00	---	V		12.62	8.87		-13.00	
4958.40	---	V		12.65	9.75		-13.00	
5784.80	---	V		13.58	10.55		-13.00	
6611.20	---	V		12.03	11.31		-13.00	
7437.60	---	V		11.48	12.12		-13.00	
8264.00	---	V		11.50	12.73		-13.00	

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

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Radiated Spurious Emission Measurement Result: HSDPA B5 Mode

Operation Mode	: TX CH Low Mode	Test Date:	May. 18, 2011
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 Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
149.31	33.59	H	-64.25	-9.94	1.59	-75.78	-13.00	-62.78
250.19	32.31	H	-66.90	-10.03	1.99	-78.92	-13.00	-65.92
325.85	32.57	H	-64.85	-9.92	2.27	-77.04	-13.00	-64.04
553.80	33.74	H	-57.90	-9.90	2.97	-70.77	-13.00	-57.77
694.45	33.33	H	-54.53	-9.99	3.28	-67.80	-13.00	-54.80
970.90	33.84	H	-50.24	-10.14	3.94	-64.32	-13.00	-51.32
1652.80	39.56	H	-64.84	9.30	5.23	-60.77	-13.00	-47.77
2479.20	---	H		10.07	6.54		-13.00	
3305.60	---	H		12.19	7.73		-13.00	
4132.00	---	H		12.62	8.87		-13.00	
4958.40	---	H		12.65	9.75		-13.00	
5784.80	---	H		13.58	10.55		-13.00	
6611.20	---	H		12.03	11.31		-13.00	
7437.60	---	H		11.48	12.12		-13.00	
8264.00	---	H		11.50	12.73		-13.00	

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

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Radiated Spurious Emission Measurement Result: HSDPA B5 Mode

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

Test Date: May. 18, 2011
 Test By: Jazz
 Pol: Ver

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
167.74	36.60	V	-62.28	-9.95	1.63	-73.87	-13.00	-60.87
248.25	32.68	V	-67.28	-10.03	1.98	-79.28	-13.00	-66.28
332.64	32.10	V	-65.75	-9.88	2.29	-77.92	-13.00	-64.92
559.62	32.91	V	-59.02	-9.91	2.97	-71.90	-13.00	-58.90
700.27	33.45	V	-55.98	-10.00	3.29	-69.27	-13.00	-56.27
972.84	34.08	V	-50.01	-10.14	3.95	-64.10	-13.00	-51.10
1672.00	38.51	V	-66.05	9.36	5.27	-61.96	-13.00	-48.96
2508.00	---	V		10.08	6.58		-13.00	
3344.00	---	V		12.27	7.79		-13.00	
4180.00	---	V		12.62	8.93		-13.00	
5016.00	---	V		12.67	9.81		-13.00	
5852.00	---	V		13.68	10.62		-13.00	
6688.00	---	V		11.96	11.39		-13.00	
7524.00	---	V		11.45	12.20		-13.00	
8360.00	---	V		11.58	12.81		-13.00	

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

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Radiated Spurious Emission Measurement Result: HSDPA B5 Mode

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

Test Date: May. 18, 2011
 Test By: Jazz
 Pol: Hor

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
175.50	41.07	H	-58.68	-9.96	1.65	-70.29	-13.00	-57.29
250.19	32.09	H	-67.12	-10.03	1.99	-79.14	-13.00	-66.14
322.94	34.42	H	-63.03	-9.93	2.26	-75.22	-13.00	-62.22
558.65	33.40	H	-58.14	-9.91	2.97	-71.02	-13.00	-58.02
691.54	33.49	H	-54.49	-9.99	3.27	-67.75	-13.00	-54.75
959.26	33.77	H	-50.38	-10.14	3.91	-64.43	-13.00	-51.43
1672.00	38.51	H	-65.87	9.36	5.27	-61.77	-13.00	-48.77
2508.00	---	H		10.08	6.58		-13.00	
3344.00	---	H		12.27	7.79		-13.00	
4180.00	---	H		12.62	8.93		-13.00	
5016.00	---	H		12.67	9.81		-13.00	
5852.00	---	H		13.68	10.62		-13.00	
6688.00	---	H		11.96	11.39		-13.00	
7524.00	---	H		11.45	12.20		-13.00	
8360.00	---	H		11.58	12.81		-13.00	

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

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Radiated Spurious Emission Measurement Result: HSDPA B5 Mode

Operation Mode	: TX CH High Mode	Test Date:	May. 18, 2011
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
170.65	34.25	V	-64.89	-9.96	1.64	-76.49	-13.00	-63.49
243.40	32.48	V	-67.66	-10.02	1.95	-79.64	-13.00	-66.64
340.40	32.35	V	-65.40	-9.83	2.32	-77.56	-13.00	-64.56
559.62	32.97	V	-58.96	-9.91	2.97	-71.84	-13.00	-58.84
699.60	33.45	V	-55.99	-10.00	3.29	-69.27	-13.00	-56.27
943.74	33.82	V	-50.82	-10.13	3.87	-64.82	-13.00	-51.82
1693.20	38.33	V	-66.21	9.42	5.30	-62.09	-13.00	-49.09
2539.80	---	V		10.18	6.62		-13.00	
3386.40	---	V		12.36	7.85		-13.00	
4233.00	---	V		12.63	8.99		-13.00	
5079.60	---	V		12.73	9.87		-13.00	
5926.20	---	V		13.79	10.69		-13.00	
6772.80	---	V		11.87	11.47		-13.00	
7619.40	---	V		11.41	12.26		-13.00	
8466.00	---	V		11.68	12.89		-13.00	

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

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Radiated Spurious Emission Measurement Result: HSDPA B5 Mode

Operation Mode	: TX CH High Mode	Test Date:	May. 18, 2011
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 Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
175.50	39.55	H	-60.20	-9.96	1.65	-71.81	-13.00	-58.81
245.34	32.11	H	-67.34	-10.03	1.96	-79.33	-13.00	-66.33
319.06	33.17	H	-64.31	-9.95	2.24	-76.51	-13.00	-63.51
390.84	35.59	H	-60.98	-9.80	2.48	-73.26	-13.00	-60.26
684.75	33.47	H	-54.80	-9.98	3.25	-68.03	-13.00	-55.03
966.05	34.07	H	-50.04	-10.14	3.93	-64.11	-13.00	-51.11
1693.20	38.58	H	-65.77	9.42	5.30	-61.65	-13.00	-48.65
2539.80	---	H		10.18	6.62		-13.00	
3386.40	---	H		12.36	7.85		-13.00	
4233.00	---	H		12.63	8.99		-13.00	
5079.60	---	H		12.73	9.87		-13.00	
5926.20	---	H		13.79	10.69		-13.00	
6772.80	---	H		11.87	11.47		-13.00	
7619.40	---	H		11.41	12.26		-13.00	
8466.00	---	H		11.68	12.89		-13.00	

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:
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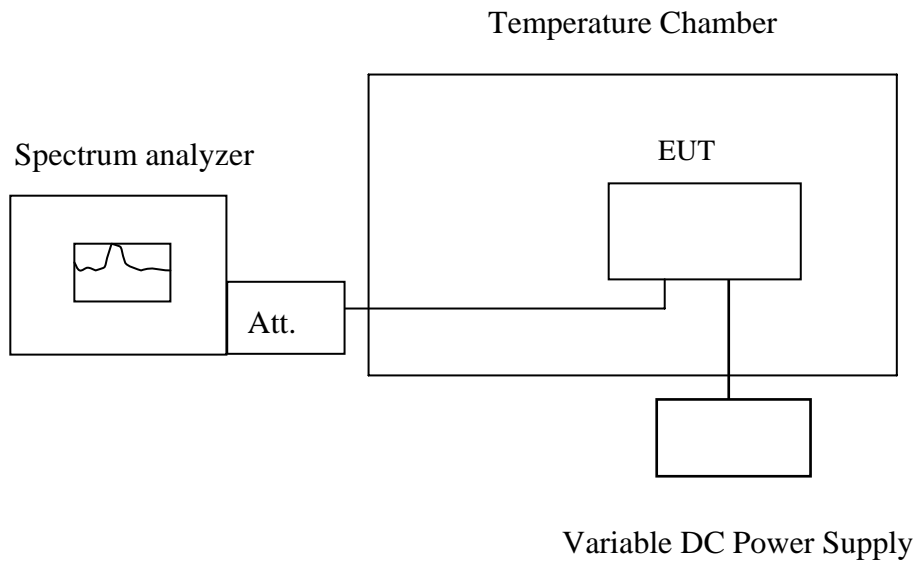
10 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1055(a)(1)

Frequency Tolerance: +/- 2.5 ppm

10.2 Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

10.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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10.5 Measurement Result :

Reference Frequency: WCDMA B5 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.599998	-7.00	2091
3.7	-20	836.599999	-8.00	2091
3.7	-10	836.599998	-7.00	2091
3.7	0	836.599997	-6.00	2091
3.7	10	836.599999	-8.00	2091
3.7	20	836.599991	0.00	2091
3.7	30	836.599998	-7.00	2091
3.7	40	836.599998	-7.00	2091
3.7	50	836.600008	-17.00	2091

Note: The battery is rated 3.7V dc.

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11 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(2)

Frequency Tolerance: +/- 2.5 ppm

11.2 Test Set-up:

Refer to section 10.2 in this report

11.3 Measurement Procedure

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

11.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5 Measurement Result :

Reference Frequency: WCDMA B5 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25.00	836.600002	0.00	2091.00
3.7	25.00	836.599991	11.00	2091.00
3.2	25.00	836.600002	0.00	2091.00
3.06 (Endpoint)	25.00	836.599968	34.00	2091.00

Note: The battery is rated 3.7V dc.

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