

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E
AND INDUSTRY CANADA RSS-132 and RSS-133 REQUIREMENT
OF**

Product Name: Pocket PC Phone
Brand Name: HTC
Model Name: HERO130
Model Different: N/A
FCC ID: NM8HOT
IC: 4115B-HOT
Report No.: EH/2009/50001
Issue Date: Jun. 01, 2009
FCC Rule Part: 2, 22H & 24E
IC Rule Part: RSS 132, Issue 2 and RSS 133, Issue 5
Prepared for: HTC Corporation
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County 330, Taiwan, R.O.C
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VERIFICATION OF COMPLIANCE

Applicant: HTC Corporation
No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330,
Taiwan, R.O.C

Product Name: Pocket PC Phone

Brand Name: HTC

FCC ID: NM8HOT

IC: 4115B-HOT

Model No.: HERO130

Model Difference: N/A

File Number: EH/2009/50001

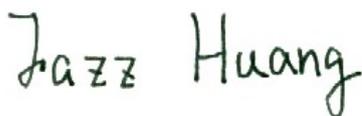
Date of Test: Apr. 28, 2009 ~ May 20, 2009

Date of EUT Received: Apr. 28, 2009

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 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, PART 24 subpart E and IC standards Issue 2 of RSS-132, Issue 5 of RSS-133.

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

Test By:  **Date:** Jun. 01, 2009

Jazz Huang / Engineer

Prepared By:  **Date:** Jun. 01, 2009

Eva Kao / Asst. Supervisor

Approved By  **Date:** Jun. 01, 2009

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Jun. 01, 2009	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	Pocket PC Phone	
Brand Name:	HTC	
Model Name:	HERO130	
Model Difference:	N/A	
Simple Hands-Free (SHF):	<ol style="list-style-type: none"> Model: HS G335, Supplier: Cotron Model: HS G335, Supplier: Merry 	
Data Cable (USB):	<ol style="list-style-type: none"> Model No.: DC U200, Supplier: MEC Model No.: DC U200, Supplier: Foxlink 	
Pouch:	Model No.: PO S490, Supplier: XIGMA	
LCM:	<ol style="list-style-type: none"> Model No.: L5F30949, Supplier: EPSON Model No.: LMS320DF01, Supplier: SAMSUNG 	
Camera	<ol style="list-style-type: none"> Model No.: CMHT-5AM01T, Supplier: Premier Model No.: 08PM10, Supplier: Liteon Model No.: CMHT-5AM01D, Supplier: Premier Model No.: 08PM19, Supplier: Liteon 	
Power Supply:	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	<ol style="list-style-type: none"> Model: TWIN160, Supplier: Total Wireless Solutions(TWS) Model: TWIN160, Supplier: Hitech (HTE) Model: TWIN160, Supplier: Formosa
	Adapter:	<ol style="list-style-type: none"> Model: TC P300, Supplier: Delta Model: TC P300, Supplier: Foxlink

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GSM / WCDMA

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	E-GSM/GPRS 850 Class 10	824.2 MHz– 848.8 MHz	33 dBm
	E-GSM/GPRS 900 Class 10	880.2MHz – 914.8MHz	33 dBm
	E-GSM/GPRS 1800 Class 10	1710.2MHz – 1784.8MHz	30 dBm
	E-GSM/GPRS 1900 Class 10	1850.2MHz – 1909.8MHz	30 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz – 846.6MHz	24dBm
	HSUPA data rate: uplink up to 2Mbps HSDPA data rate: downlink up to 7.2Mbps		
Type of Emission:	GSM850: 247KGXW, GSM1900: 248KGXW EDGE 850: 248KG7W, EDGE 1900: 243KG7W WCDMA Band II: 4M18F9W, WCDMA Band V: 4M16F9W		
IMEI	353994030010661		
Software Version	N/A		
Hardware Version	N/A		

WLAN: 802.11 b/g

Frequency Range:	2412 – 2462 MHz
Channel number:	11 channels
Transmit Power:	<input checked="" type="checkbox"/> 802.11 b: 16.93 dBm <input checked="" type="checkbox"/> 802.11 g: 12.89 dBm
Modulation Technology:	<input checked="" type="checkbox"/> DSSS, <input checked="" type="checkbox"/> OFDM
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation:	PIFA Antenna, -0.1dBi.
Type of Emission:	16M4D1D

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Bluetooth:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input checked="" type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) <input type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	0.48 dBm
Dwell Time:	$\leq 0.4s$
Operating Mode:	Point-to-Point
Antenna Designation:	PIFA Antenna, -0.1dBi.
Type of Emission:	1M30FXD

The EUT is compliance with Bluetooth 2.0 + EDR Standard.

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

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

This submittal(s) (test report) is intended for FCC ID: NM8HOT filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules and IC: 4115B-HOT filing to comply with Issue 2 of RSS-132, Issue 5 of RSS-133

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC 47 CFR 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, issue 2 of RSS-132 and issue 3 of RSS-133.

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-1

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.

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 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C and RSS-Gen, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.3 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C and RSS-Gen, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4:2003.

2.4. Measurement Equipment Used:

AC POWER LINE CONDUCTED EMISSION EQUIPMENT List					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	02/18/2009	02/17/2010
LISN	FCC	FCC-LISN-50 /250-25-2-01	04034	02/18/2009	02/17/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/13/2010
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2009	01/04/2010
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2009	01/04/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2008	07/04/2009
Splitter	Agilent	11636B	N/A	07/05/2008	07/04/2009
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2008	07/09/2010
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2008	07/09/2010
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2008	01/21/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Signal Generator	R&S	SMR40	100210	01/22/2008	01/21/2010
Signal Generator	Agilent	E4438C	MY45093613	05/22/2009	05/21/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2008	07/04/2009
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
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	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009

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2.5. Configuration of Tested System

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

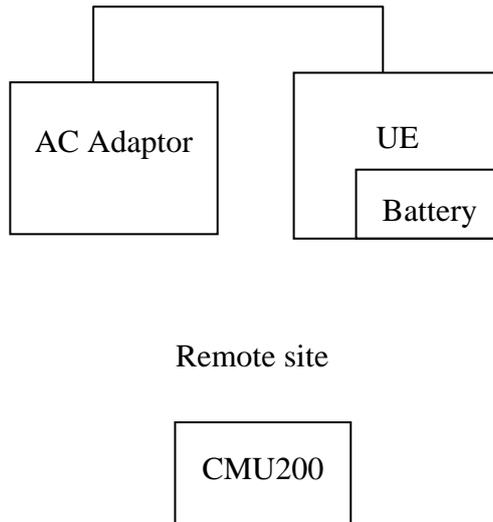


Table 2-1 Equipment Used in Tested System

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

3. SUMMARY OF TEST RESULTS

FCC Rules	FCC Rules	Description Of Test	Result
§2.1046(a)	N/A	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	§4.8 (RSS-Gen) §4.4 (RSS-132) §6.4 (RSS-133)	ERP/ EIRP measurement	Compliant
§2.1049(h)	§4.6.1 (RSS-Gen) §2.3 (RSS-133)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	§4.9 (RSS-Gen) §4.5 (RSS-132) §6.5 (RSS-133)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	§4.9 (RSS-Gen) §4.5 (RSS-132) §6.5 (RSS-133)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1) §22.355 §24.235	§4.7 (RSS-Gen) §4.3 (RSS-132) §6.3 (RSS-133)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355 §24.235	§4.7 (RSS-Gen) §4.3 (RSS-132) §6.3 (RSS-133)	Frequency Stability vs. Voltage	Compliant
N/A	§4.10 (RSS-Gen) §4.6 (RSS-132) §6.6 (RSS-133)	Receiver Spurious Emissions	Compliant
§15.107;§15.207	§7.2.2 (RSS-Gen)	AC Power Line Conducted Emission	N/A

Max ERP/EIRP measurement result:

	dBm	dB	W
GSM 850 Band	32.71	ERP	1.866
GSM 1900 Band	27.65	EIRP	0.920
EDGE 850 Band	29.64	ERP	0.461
EDGE 1900 Band	26.64	EIRP	0.221
WCDMA Band II	22.78	EIRP	0.221
WCDMA Band V	23.44	ERP	0.254
HSUPA Band II	21.44	EIRP	0.139
HSUPA Band V	24.05	ERP	0.254

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

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

FCC 24.232(d) Peak Power Measurement, FCC 24.232(c) Maximum Power Reduction.

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

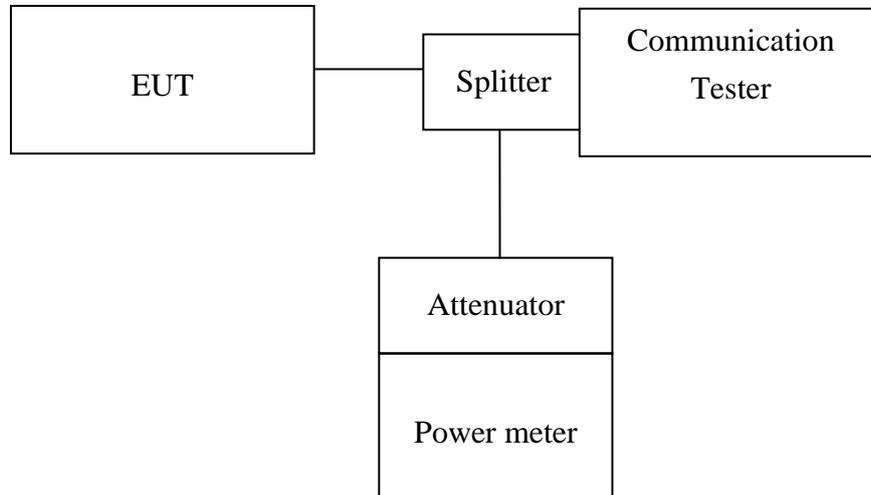
Sub-test in table C.10.1.4	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-3.7	+21	+2.7/-2.7
2	+24	+1.7/-3.7	+21	+2.7/-2.7
3	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7
4	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7

Maximum Output Powers for HSUPA

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

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5.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3. Measurement Procedure:

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

5.4. Measurement Equipment Used:

Refer to section 2.4 in this report

5.5. Measurement Result:

5.5.1. RF Conducted Output Power

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

Result:

Frequency (MHz)	CH	1 Time Slot				2 Time Slot			
		GMSK Mode		8-PSK Mode		GMSK Mode		8-PSK Mode	
		Peak Power (dBm)	AV Power (dBm)						
824.2	128	32.61	32.57	28.32	26.29	32.31	32.35	28.03	26.04
836.6	190	32.67	32.64	28.37	26.33	32.32	32.37	28.09	26.06
848.8	251	32.65	32.61	28.14	26.03	32.32	32.39	27.92	25.81
1850.2	512	29.17	29.12	27.88	25.13	28.87	28.87	27.53	24.82
1880.0	661	29.23	29.18	27.92	25.21	28.92	28.82	27.62	24.92
1909.8	810	29.24	29.19	28.04	25.25	28.88	28.86	27.71	24.95

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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)	RMS. Power (dBm)
WCDMA Band II	1852.4	9262	25.82	22.62
	1880.0	9400	26.04	22.82
	1907.6	9538	25.71	22.52

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	RMS. Power (dBm)
WCDMA Band V	826.4	4132	26.52	23.02
	836.6	4183	26.55	23.08
	846.6	4233	26.47	23.05

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

5.5.1.3.:HSDPA Release 6 mode

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX 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_a	β_a (SF)	β_c/β_a	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) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	22.57	22.77	22.56	20.3dBm – 25.7dBm	Pass
	2	22.43	22.45	22.41	20.3dBm – 25.7dBm	Pass
	3	21.95	21.93	21.92	19.8dBm – 25.7dBm	Pass
	4	21.89	21.92	21.87	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.01	23.04	23.02	20.3dBm – 25.7dBm	Pass
	2	29.97	23.01	29.96	20.3dBm – 25.7dBm	Pass
	3	29.47	29.52	29.48	19.8dBm – 25.7dBm	Pass
	4	29.48	29.50	29.46	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 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
		Channel				
		9262	9400	9538		
HSUPA(B2)	1	22.54	22.61	22.51	18.8dBm – 25.7dBm	Pass
	2	20.88	20.91	20.83	16.8dBm – 25.7dBm	Pass
	3	21.67	21.72	21.63	17.8dBm – 25.7dBm	Pass
	4-	20.82	20.85	20.78	16.8dBm – 25.7dBm	Pass
	5	22.24	22.31	22.22	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel				
		4132	4183	4233		
HSUPA(B5)	1	22.97	23.05	23.01	18.8dBm – 25.7dBm	Pass
	2	21.35	21.4	21.39	16.8dBm – 25.7dBm	Pass
	3	22.13	22.19	22.13	17.8dBm – 25.7dBm	Pass
	4	21.23	21.19	21.23	16.8dBm – 25.7dBm	Pass
	5	22.63	22.79	22.67	18.8dBm – 25.7dBm	Pass

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5.5.2. Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.3	27.4	25.6	23.3	21.9	20.4	17.8	16.3	14.3
PCL	9	10	11	12	13	14	15	16	17
Output power (dBm)	12.2	10.0	8.2	6.3	4.1	2.2	0.1		

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

WCDMA/HSDPA/HSUPA band II

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 -52.3dBm. The power variation can be 0.1dB step by setting.

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.

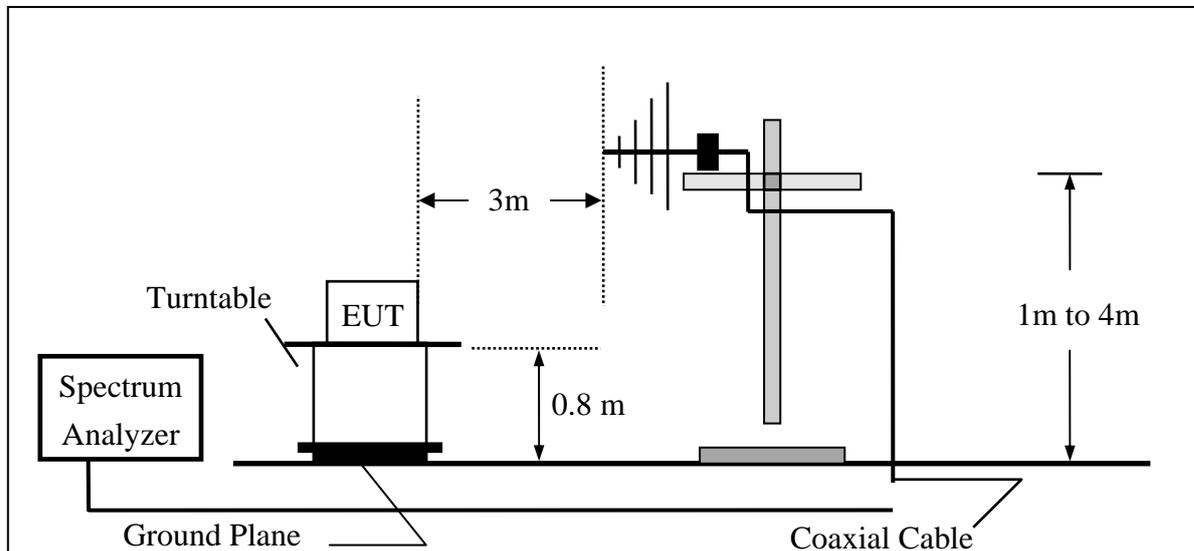
According to IC RSS-133 §6.4

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.

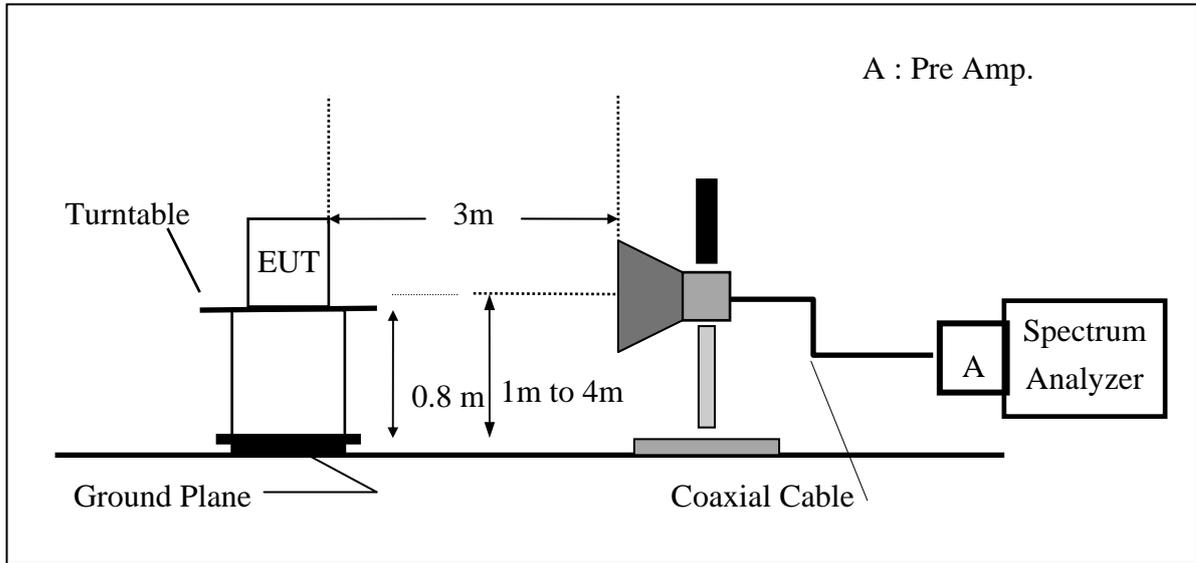
6.2. Test SET-UP (Block Diagram of Configuration):

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

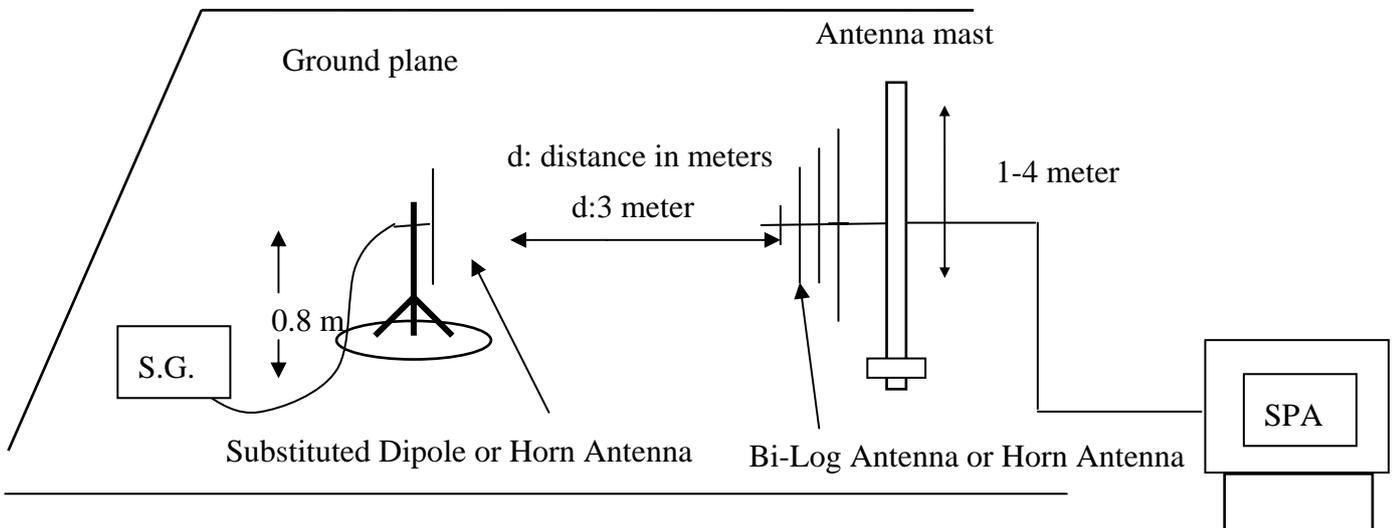


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3. Measurement Procedure:

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

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

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

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

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

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

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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)
GSM 850	824.20	128	H	V	117.58	31.19	-7.87	3.62	19.69	38.45
				H	127.75	41.48	-7.87	3.62	29.98	38.45
			E1	V	128.23	41.84	-7.87	3.62	30.34	38.45
				H	122.55	36.28	-7.87	3.62	24.78	38.45
			E2	V	118.06	31.67	-7.87	3.62	20.17	38.45
				H	127.83	41.56	-7.87	3.62	30.06	38.45
	836.60	190	H	V	117.76	31.51	-7.88	3.65	19.98	38.45
				H	128.72	42.49	-7.88	3.65	30.96	38.45
			E1	V	129.38	43.13	-7.88	3.65	31.60	38.45
				H	123.38	37.15	-7.88	3.65	25.62	38.45
			E2	V	118.73	32.48	-7.88	3.65	20.95	38.45
				H	128.60	42.37	-7.88	3.65	30.84	38.45
	848.80	251	H	V	118.67	32.55	-7.88	3.68	20.99	38.45
				H	130.17	43.98	-7.88	3.68	32.42	38.45
			E1	V	130.39	44.27	-7.88	3.68	32.71	38.45
				H	123.75	37.56	-7.88	3.68	26.00	38.45
			E2	V	119.96	33.84	-7.88	3.68	22.28	38.45
				H	129.82	43.63	-7.88	3.68	32.07	38.45

Remark :

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

RBW=300 KHz, VBW=1MHz

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)
PCS 1900	1850.20	512	H	V	112.66	8.27	9.90	5.56	12.61	33.00
				H	127.49	23.31	9.90	5.56	27.65	33.00
			E1	V	123.73	19.34	9.90	5.56	23.68	33.00
				H	122.91	18.73	9.90	5.56	23.07	33.00
			E2	V	125.15	20.76	9.90	5.56	25.10	33.00
				H	123.06	18.88	9.90	5.84	22.94	33.00
	1880.00	661	H	V	114.80	10.44	9.99	5.61	14.82	33.00
				H	127.61	23.47	9.99	5.61	27.84	33.00
			E1	V	124.23	19.87	9.99	5.61	24.25	33.00
				H	123.92	19.78	9.99	5.61	24.15	33.00
			E2	V	125.05	20.69	9.99	5.61	25.07	33.00
				H	123.46	19.32	9.99	5.61	23.69	33.00
	1909.80	810	H	V	114.41	10.08	10.08	5.66	14.50	33.00
				H	126.48	22.37	10.08	5.66	26.79	33.00
			E1	V	123.68	19.35	10.08	5.66	23.77	33.00
				H	123.66	19.55	10.08	5.66	23.97	33.00
			E2	V	126.70	22.37	10.08	5.66	26.79	33.00
				H	124.78	20.67	10.08	5.66	25.09	33.00

Remark :

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

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)
EDGE 850	824.20	128	H	V	112.36	25.97	-7.87	3.62	14.47	38.45
				H	124.57	38.30	-7.87	3.62	26.80	38.45
			E1	V	125.25	38.86	-7.87	3.62	27.36	38.45
				H	118.01	31.74	-7.87	3.62	20.24	38.45
			E2	V	113.70	27.31	-7.87	3.62	15.81	38.45
				H	124.69	38.42	-7.87	3.62	26.92	38.45
	836.60	190	H	V	112.46	26.21	-7.88	3.65	14.68	38.45
				H	124.63	38.40	-7.88	3.65	26.87	38.45
			E1	V	126.26	40.01	-7.88	3.65	28.48	38.45
				H	118.65	32.42	-7.88	3.65	20.89	38.45
			E2	V	114.67	28.42	-7.88	3.65	16.89	38.45
				H	125.41	39.18	-7.88	3.65	27.65	38.45
	848.80	251	H	V	113.79	27.67	-7.88	3.68	16.11	38.45
				H	127.03	40.84	-7.88	3.68	29.28	38.45
			E1	V	127.32	41.20	-7.88	3.68	29.64	38.45
				H	119.08	32.89	-7.88	3.68	21.33	38.45
			E2	V	116.15	30.03	-7.88	3.68	18.47	38.45
				H	126.63	40.44	-7.88	3.68	28.88	38.45

Remark :

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

Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	H	V	112.28	7.89	9.90	5.56	12.23	33.00
				H	125.13	20.95	9.90	5.56	25.29	33.00
			E1	V	122.94	18.55	9.90	5.56	22.89	33.00
				H	122.88	18.70	9.90	5.56	23.04	33.00
			E2	V	125.63	21.24	9.90	5.56	25.58	33.00
				H	122.78	18.60	9.90	5.84	22.66	33.00
	1880.00	661	H	V	113.48	9.12	9.99	5.61	13.50	33.00
				H	126.41	22.27	9.99	5.61	26.64	33.00
			E1	V	124.09	19.73	9.99	5.61	24.11	33.00
				H	123.30	19.16	9.99	5.61	23.53	33.00
			E2	V	125.48	21.12	9.99	5.61	25.50	33.00
				H	122.44	18.30	9.99	5.61	22.67	33.00
	1909.80	810	H	V	113.49	9.16	10.08	5.66	13.58	33.00
				H	124.93	20.82	10.08	5.66	25.24	33.00
			E1	V	123.02	18.69	10.08	5.66	23.11	33.00
				H	123.00	18.89	10.08	5.66	23.31	33.00
			E2	V	125.09	20.76	10.08	5.66	25.18	33.00
				H	121.22	17.11	10.08	5.66	21.53	33.00

Remark :

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

Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBUV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA Band II	1852.40	9262	H	V	108.91	4.39	9.48	5.33	8.53	33.00
				H	122.97	18.64	9.48	5.33	22.78	33.00
			E1	V	118.92	14.40	9.48	5.33	18.54	33.00
				H	116.60	12.27	9.48	5.33	16.41	33.00
			E2	V	121.68	17.16	9.48	5.33	21.30	33.00
				H	119.48	15.15	9.90	5.84	19.21	33.00
	1880.00	9400	H	V	108.74	4.24	9.54	5.36	8.41	33.00
				H	122.50	18.19	9.54	5.36	22.36	33.00
			E1	V	119.06	14.56	9.54	5.36	18.73	33.00
				H	117.68	13.37	9.54	5.36	17.54	33.00
			E2	V	121.29	16.79	9.54	5.36	20.96	33.00
				H	119.10	14.79	9.54	5.36	18.96	33.00
	1907.60	9538	H	V	108.12	3.64	9.61	5.40	7.84	33.00
				H	122.02	17.73	9.61	5.40	21.94	33.00
			E1	V	117.45	12.97	9.61	5.40	17.17	33.00
				H	117.24	12.95	9.61	5.40	17.16	33.00
			E2	V	120.85	16.37	9.61	5.40	20.57	33.00
				H	118.16	13.87	9.61	5.40	18.08	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

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	107.37	21.01	-7.88	3.63	9.50	38.45
				H	120.16	33.90	-7.88	3.63	22.40	38.45
			E1	V	120.63	34.27	-7.88	3.63	22.76	38.45
				H	110.19	23.93	-7.88	3.63	12.43	38.45
			E2	V	107.81	21.45	-7.88	3.63	9.94	38.45
				H	120.23	33.97	-7.88	3.63	22.47	38.45
	836.60	4183	H	V	107.51	21.25	-7.88	3.65	9.72	38.45
				H	120.43	34.20	-7.88	3.65	22.67	38.45
			E1	V	121.23	34.97	-7.88	3.65	23.44	38.45
				H	110.05	23.82	-7.88	3.65	12.29	38.45
			E2	V	107.95	21.69	-7.88	3.65	10.16	38.45
				H	120.49	34.26	-7.88	3.65	22.73	38.45
	846.60	4233	H	V	106.93	20.78	-7.88	3.67	9.23	38.45
				H	120.12	33.92	-7.88	3.67	22.37	38.45
			E1	V	120.78	34.62	-7.88	3.67	23.07	38.45
				H	108.21	22.01	-7.88	3.67	10.46	38.45
			E2	V	107.67	21.52	-7.88	3.67	9.97	38.45
				H	119.99	33.79	-7.88	3.67	22.24	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSUPA Band II	1852.40	9262	H	V	105.29	0.77	9.48	5.33	4.91	33.00
				H	120.20	15.87	9.48	5.33	20.01	33.00
			E1	V	115.82	11.30	9.48	5.33	15.44	33.00
				H	113.75	9.42	9.48	5.33	13.56	33.00
			E2	V	121.82	17.30	9.48	5.33	21.44	33.00
				H	119.77	15.44	9.90	5.84	19.50	33.00
	1880.00	9400	H	V	106.85	2.35	9.54	5.36	6.52	33.00
				H	119.40	15.09	9.54	5.36	19.26	33.00
			E1	V	116.41	11.91	9.54	5.36	16.08	33.00
				H	116.40	12.09	9.54	5.36	16.26	33.00
			E2	V	121.45	16.95	9.54	5.36	21.12	33.00
				H	119.75	15.44	9.54	5.36	19.61	33.00
	1907.60	9538	H	V	106.49	2.01	9.61	5.40	6.21	33.00
				H	120.58	16.29	9.61	5.40	20.50	33.00
			E1	V	117.57	13.09	9.61	5.40	17.29	33.00
				H	117.33	13.04	9.61	5.40	17.25	33.00
			E2	V	120.60	16.12	9.61	5.40	20.32	33.00
				H	118.27	13.98	9.61	5.40	18.19	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

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)
HSUPA Band V	826.40	4132	H	V	108.38	22.02	-7.88	3.63	10.51	38.45
				H	120.91	34.65	-7.88	3.63	23.15	38.45
			E1	V	121.55	35.19	-7.88	3.63	23.68	38.45
				H	109.82	23.56	-7.88	3.63	12.06	38.45
			E2	V	108.53	22.17	-7.88	3.63	10.66	38.45
				H	120.90	34.64	-7.88	3.63	23.14	38.45
	836.60	4183	H	V	108.70	22.44	-7.88	3.65	10.91	38.45
				H	121.23	35.00	-7.88	3.65	23.47	38.45
			E1	V	121.84	35.58	-7.88	3.65	24.05	38.45
				H	109.79	23.56	-7.88	3.65	12.03	38.45
			E2	V	109.13	22.87	-7.88	3.65	11.34	38.45
				H	121.31	35.08	-7.88	3.65	23.55	38.45
	846.60	4233	H	V	108.32	22.17	-7.88	3.67	10.62	38.45
				H	120.80	34.60	-7.88	3.67	23.05	38.45
			E1	V	121.50	35.34	-7.88	3.67	23.79	38.45
				H	108.40	22.20	-7.88	3.67	10.65	38.45
			E2	V	108.69	22.54	-7.88	3.67	10.99	38.45
				H	120.84	34.64	-7.88	3.67	23.09	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 5MHz

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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable:

According to §FCC 2.1049.

According to IC RSS-Gen §4.6.1

According to IC RSS-133 §2.3

7.2. Test Set-up:

Refer to section 5.2 in this report

7.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW (10/30KHz) for GSM/EDGE; VBW= 3 times RBW (47/150KHz) for WCDMA/HSUPA, -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

7.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2460
	836.60	190	0.2445
	848.80	251	0.2467

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2418
	1880.00	661	0.2476
	1909.80	810	0.2448

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2430
	836.60	190	0.2437
	848.80	251	0.2483

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2411
	1880.00	661	0.2427
	1909.80	810	0.2389

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.4	9262	4.1730
	1880.0	9400	4.1508
	1907.6	9538	4.1772

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.1487
	836.60	4183	4.1596
	846.60	4233	4.1572

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.4	9262	4.1884
	1880.0	9400	4.1590
	1907.6	9538	4.1937

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1817
	836.60	4183	4.1477
	846.60	4233	4.1801

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Figure 7-1: GSM Channel Low

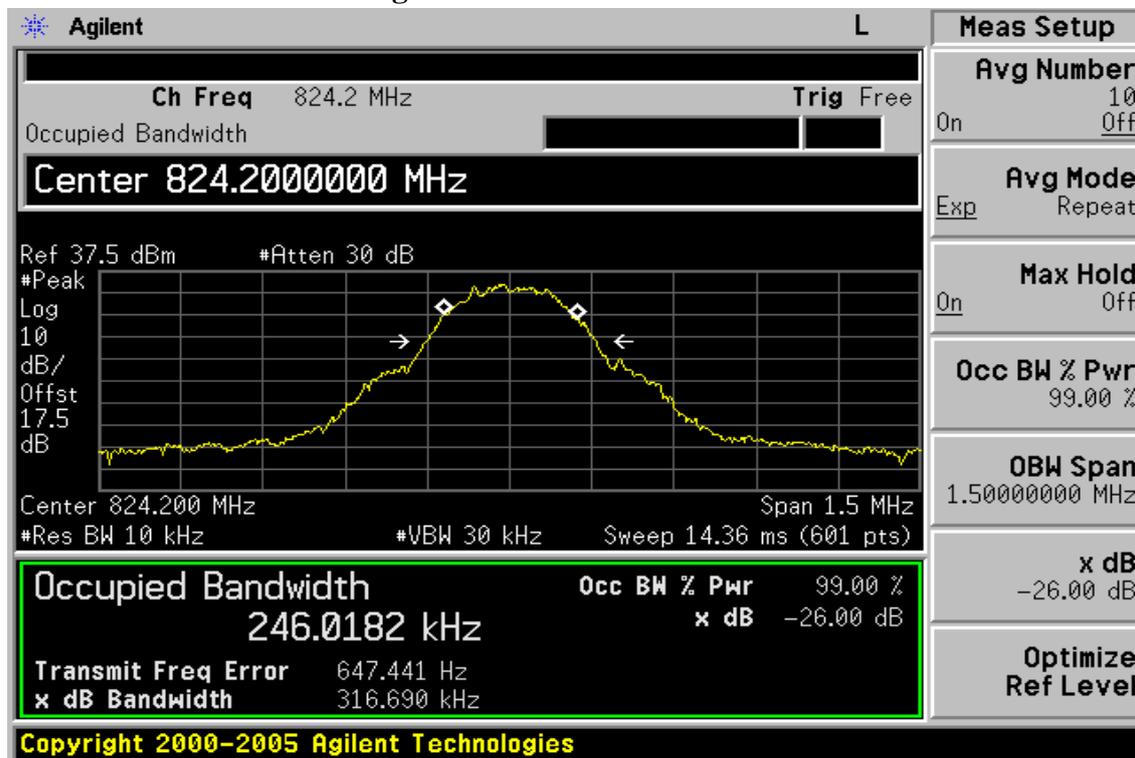
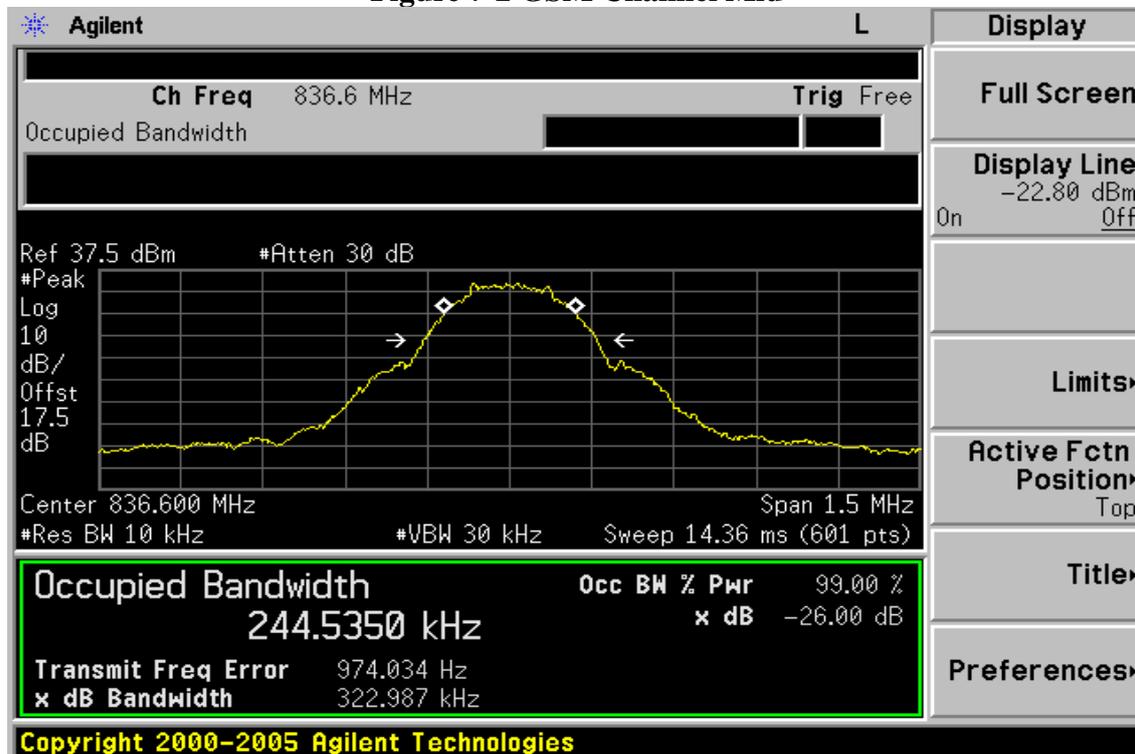


Figure 7-2: GSM Channel Mid



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Figure 7-3: GSM Channel High

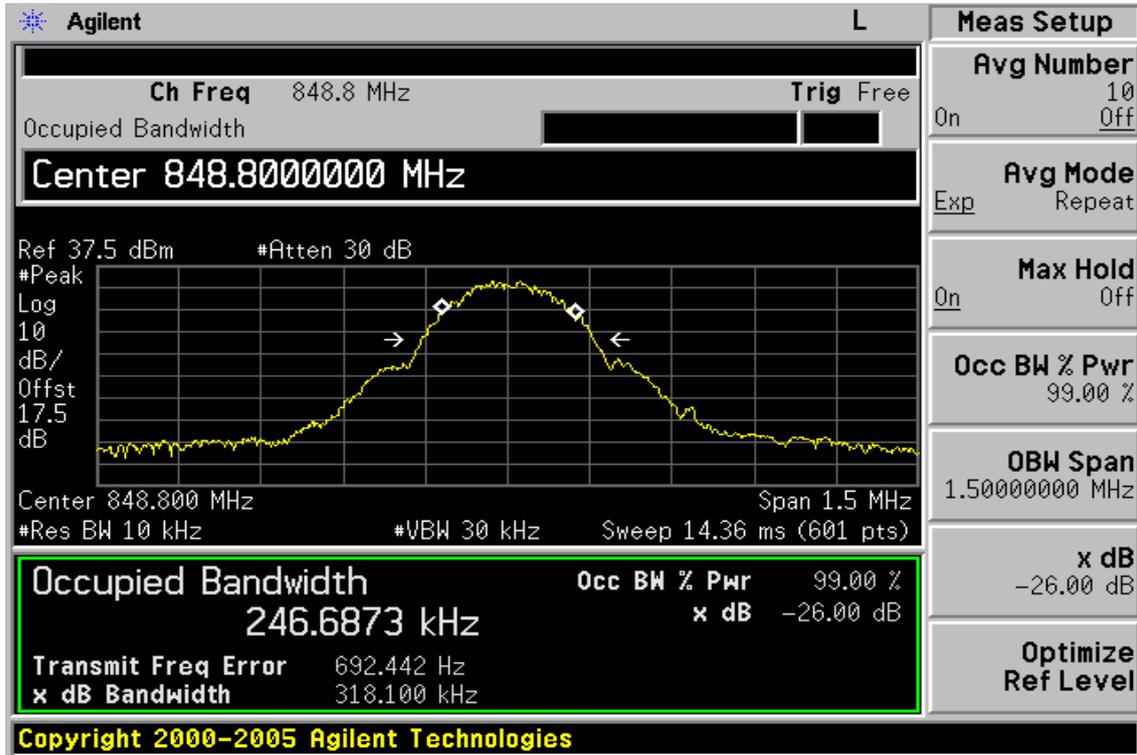
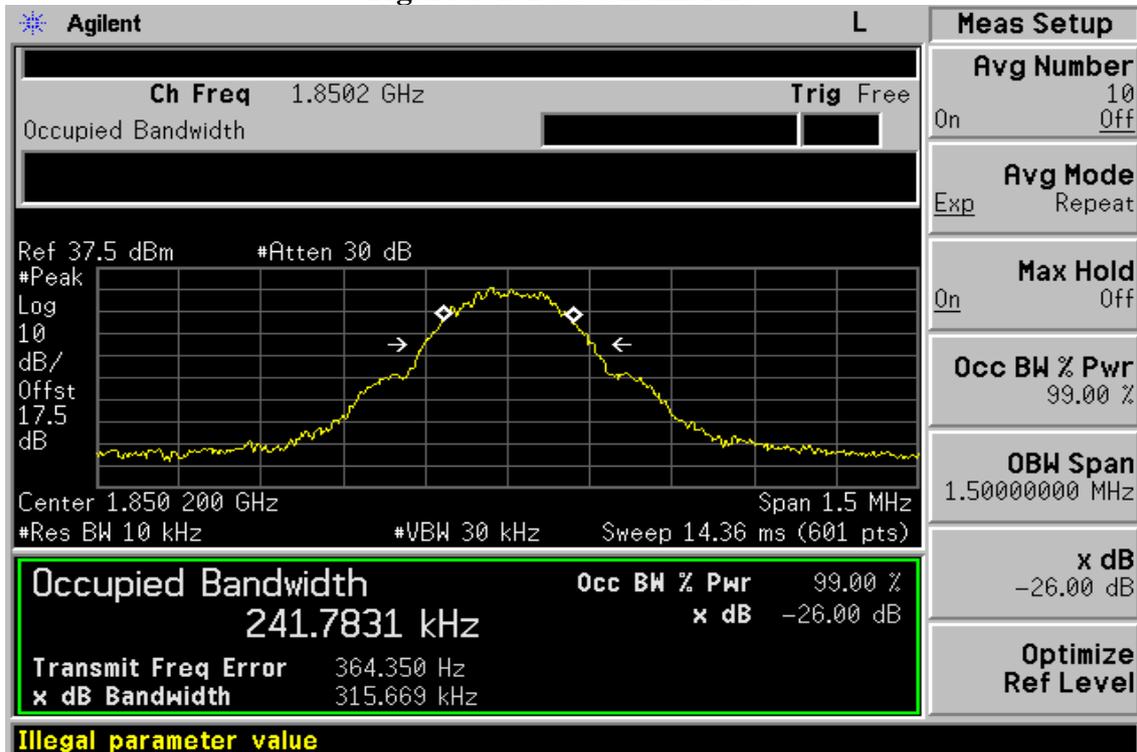


Figure 7-4: PCS Channel Low



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Figure 7-5 PCS Channel Mid

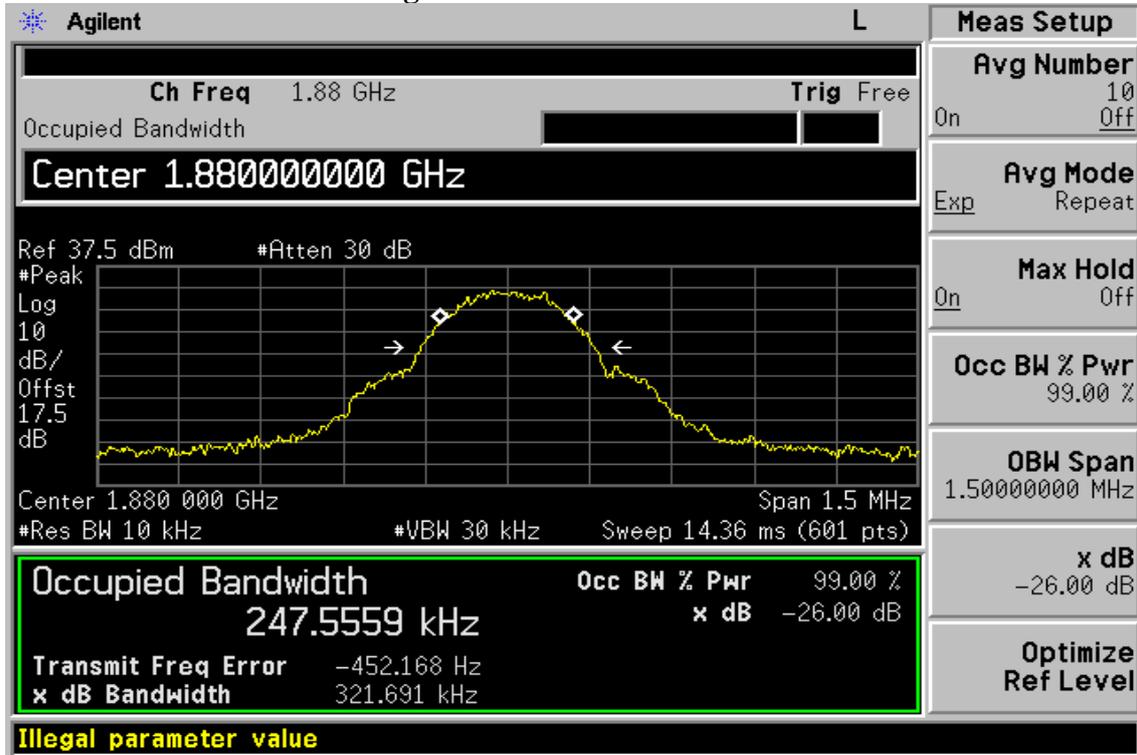
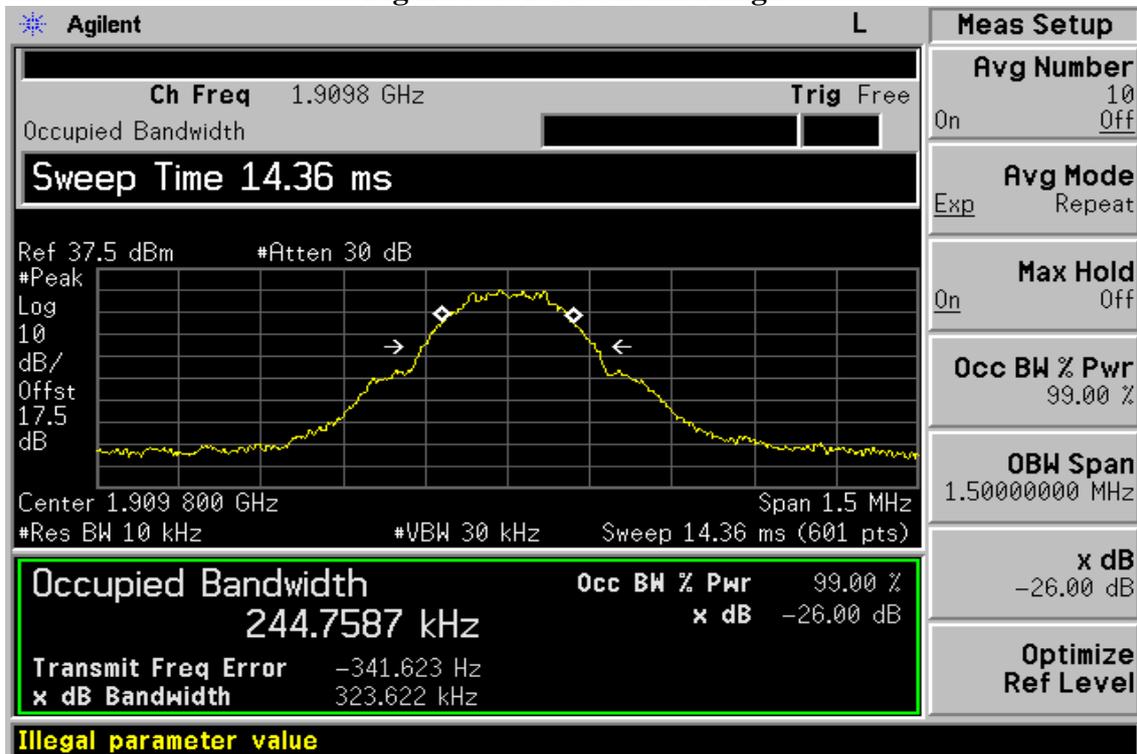


Figure 7-6: PCS Channel High



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Figure 7-7: EDGE 850 Channel Low

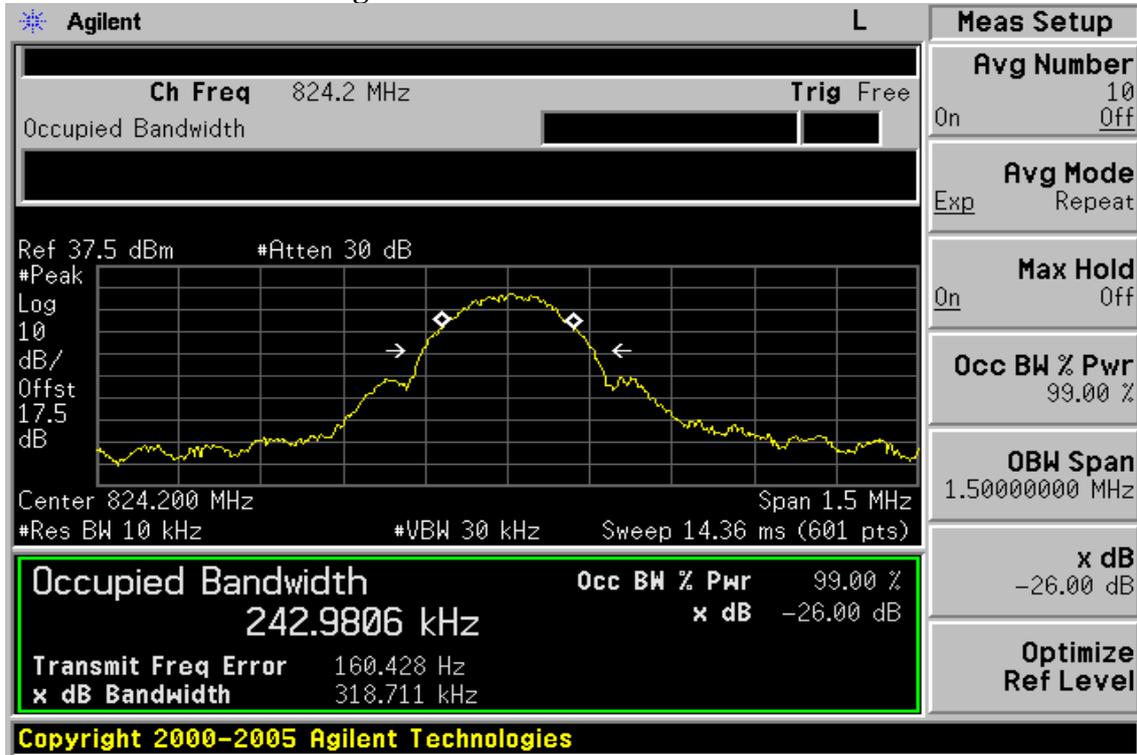
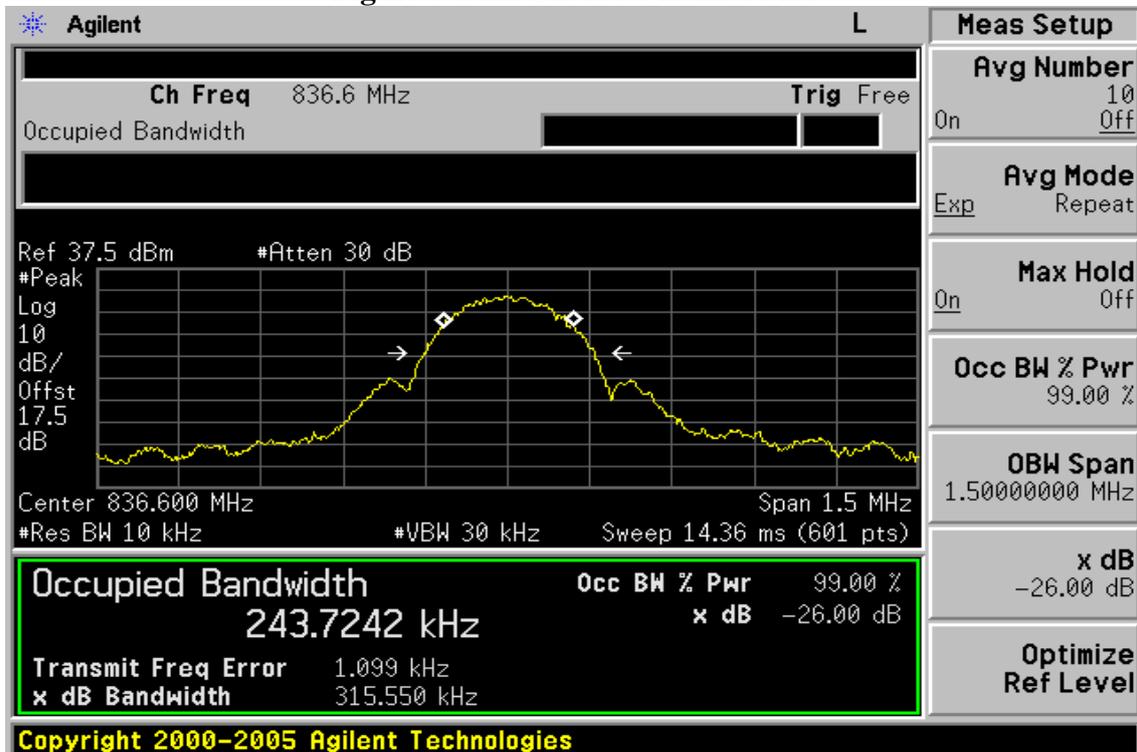


Figure 7-8 EDGE 850 Channel Mid



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Figure 7-9: EDGE 850 Channel High

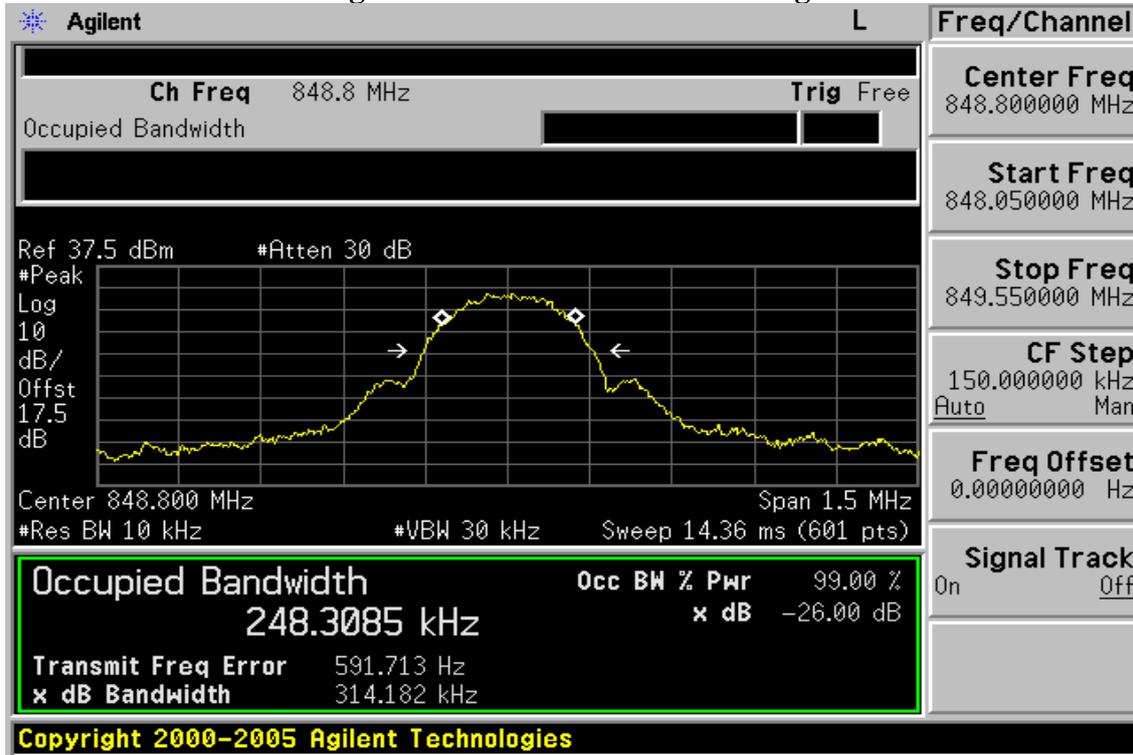
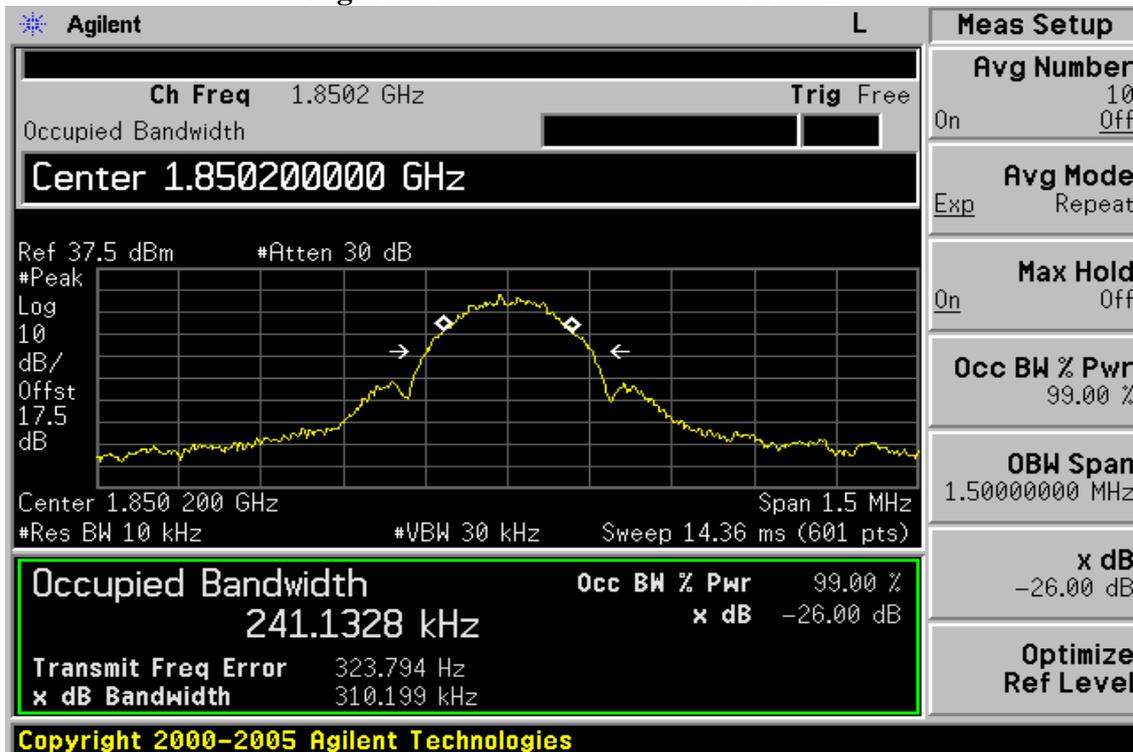


Figure 7-10: EDGE 1900 Channel Low



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Figure 7-11 EDGE 1900 Channel Mid

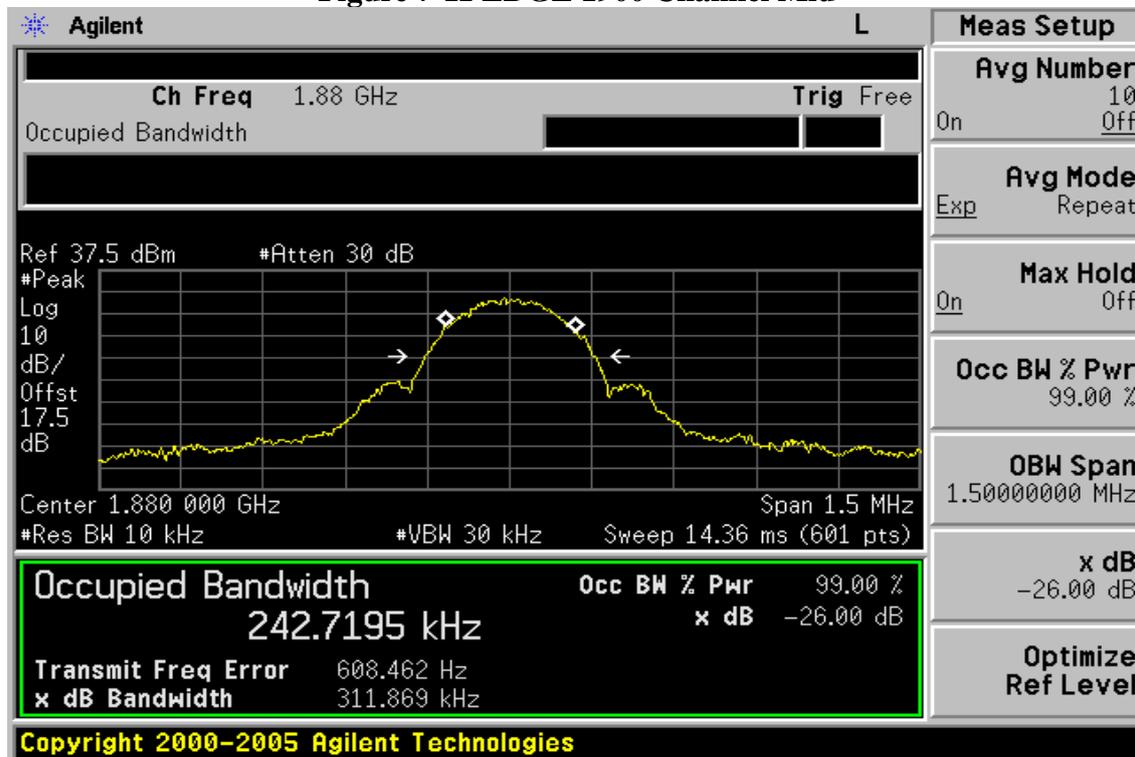
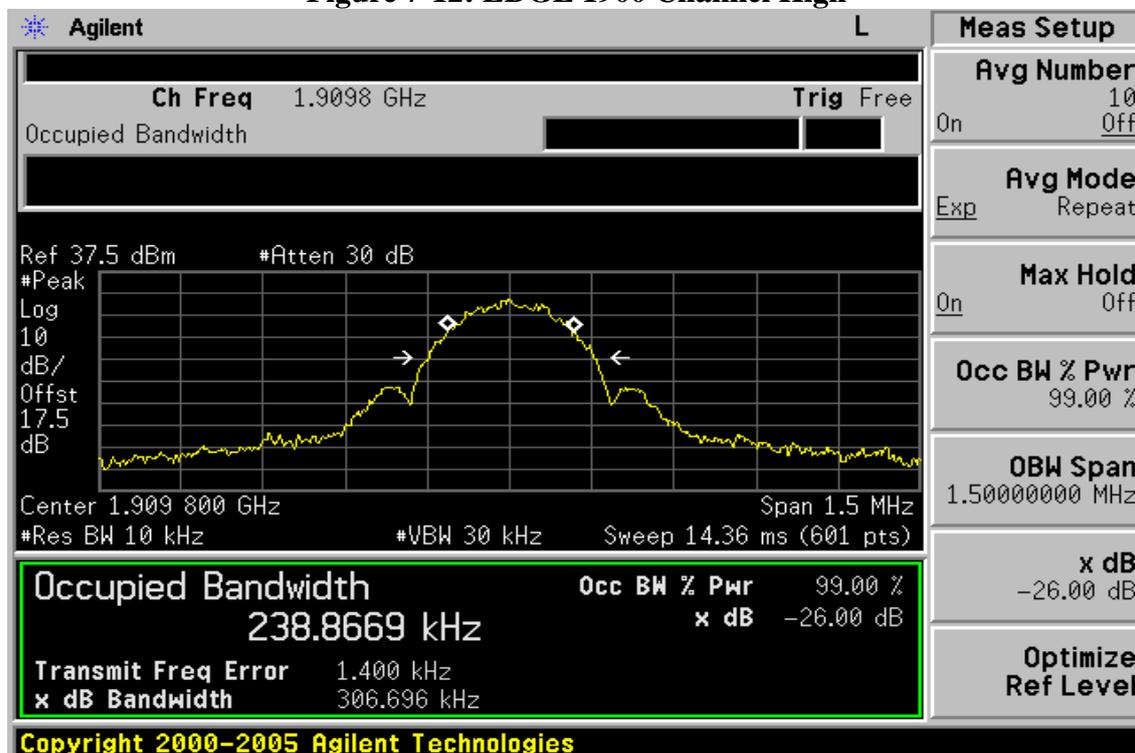


Figure 7-12: EDGE 1900 Channel High



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Figure 7-13: WCDMA II Channel Low

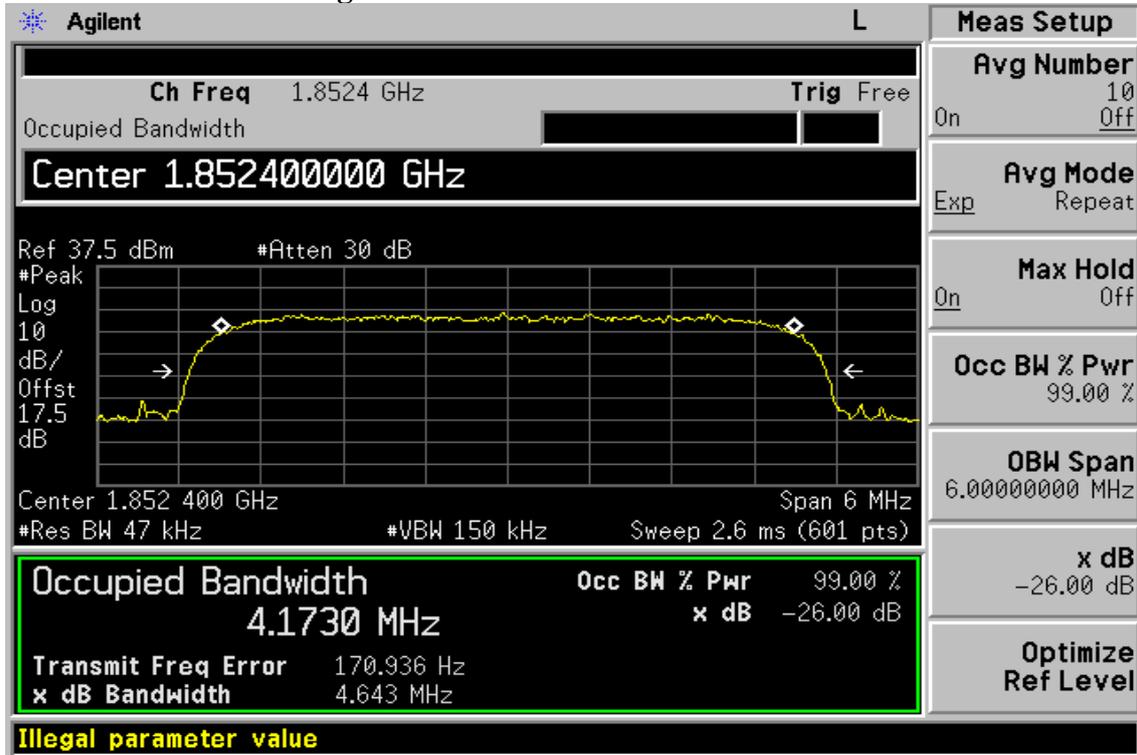
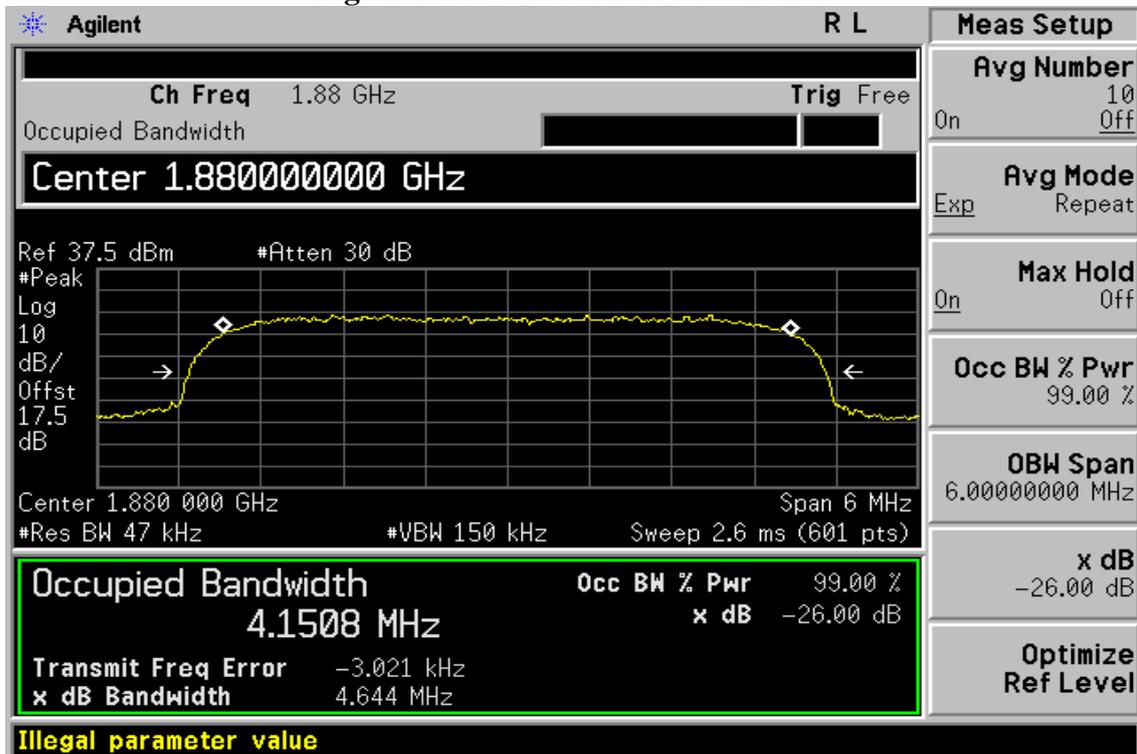


Figure 7-14 WCDMA II Channel Mid



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Figure 7-15: WCDMA II Channel High

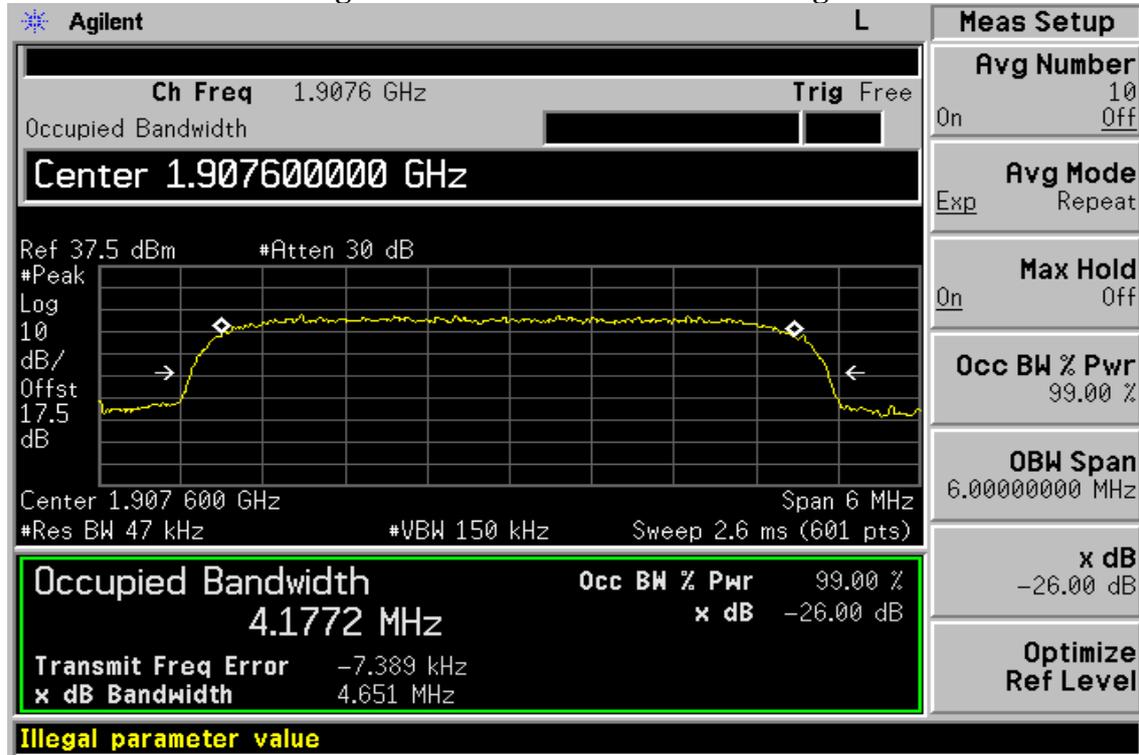
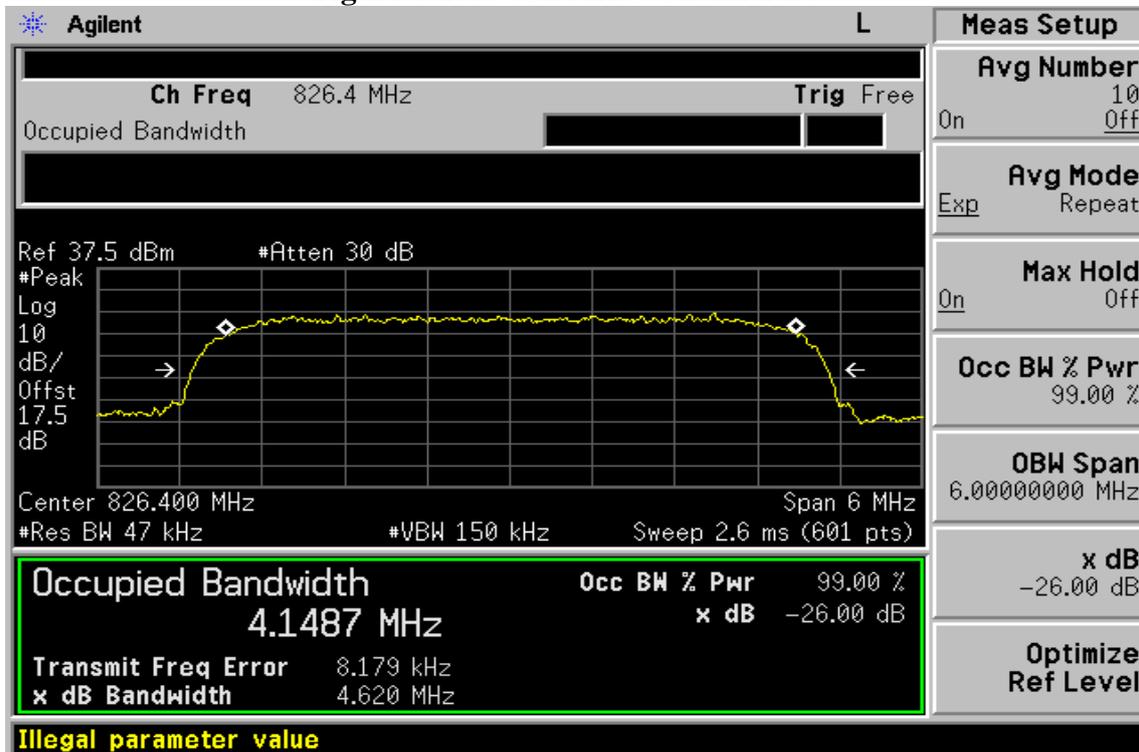


Figure 7-16: WCDMA V Channel Low



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Figure 7-17 WCDMA II Channel Mid

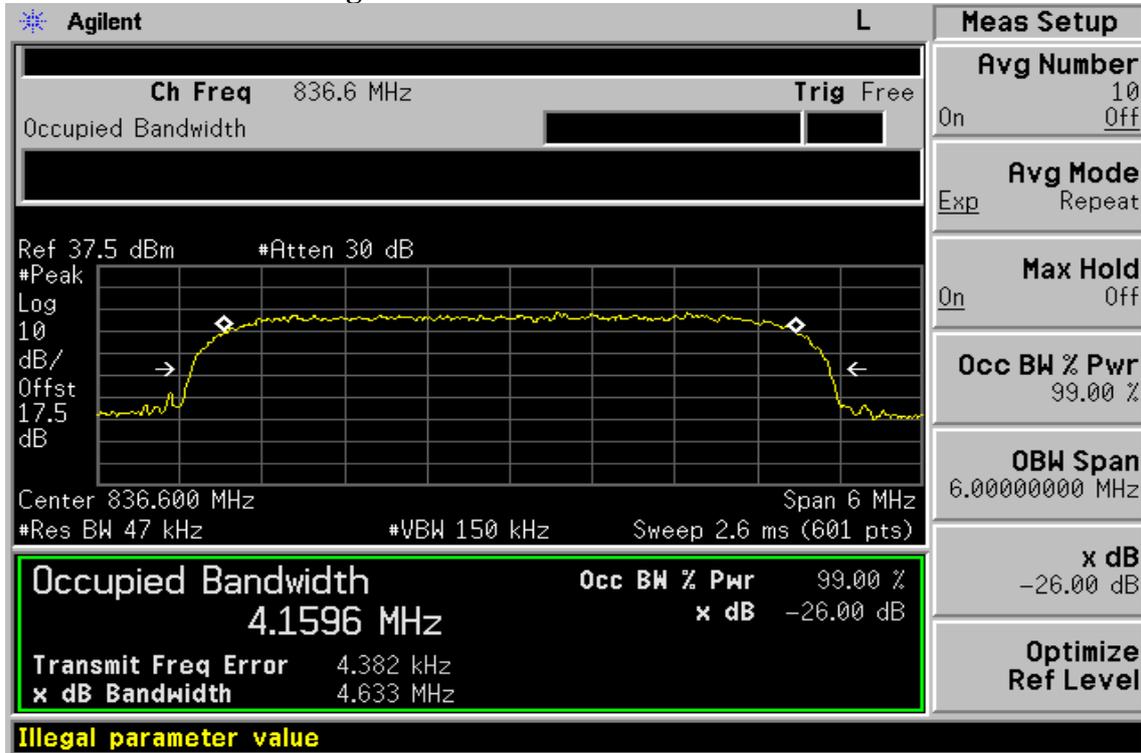
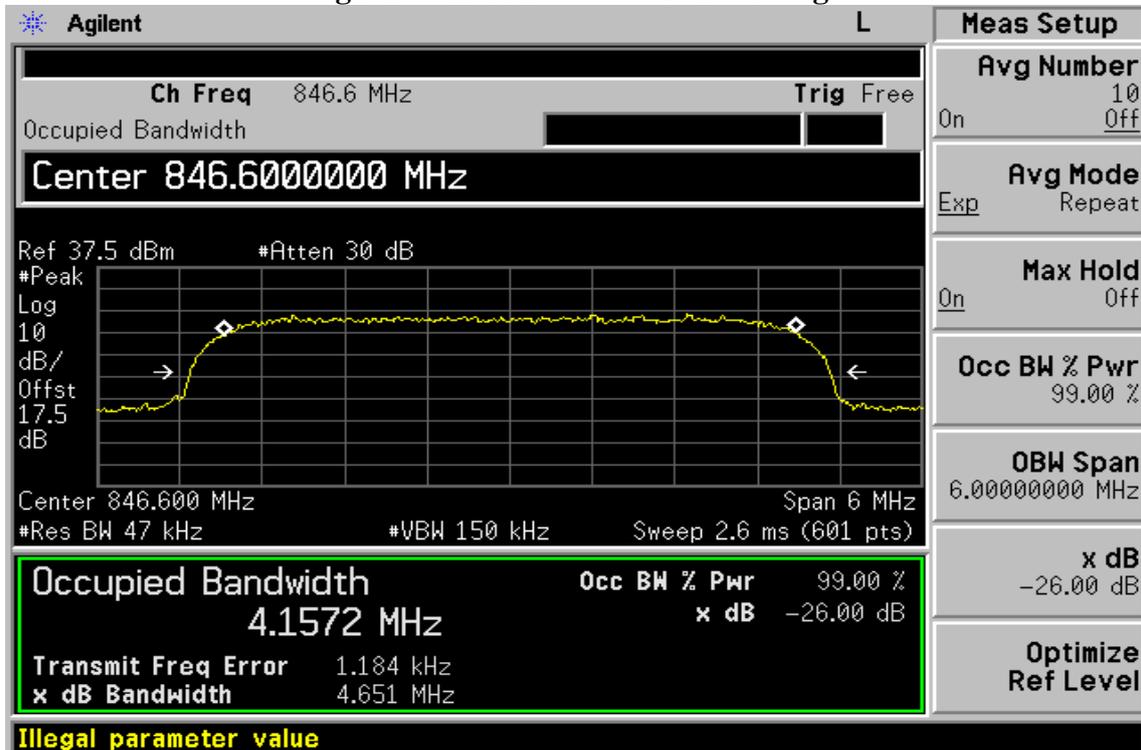


Figure 7-18: WCDMA II Channel High



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Figure 7-19: HSUPA II Channel Low

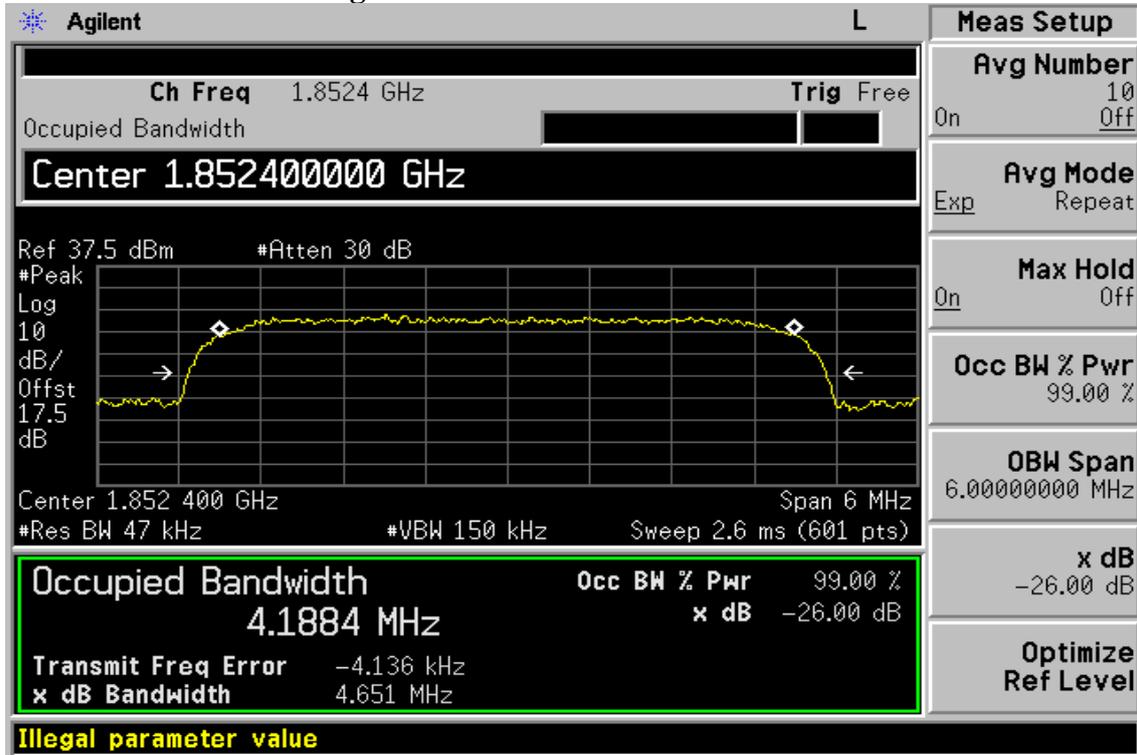
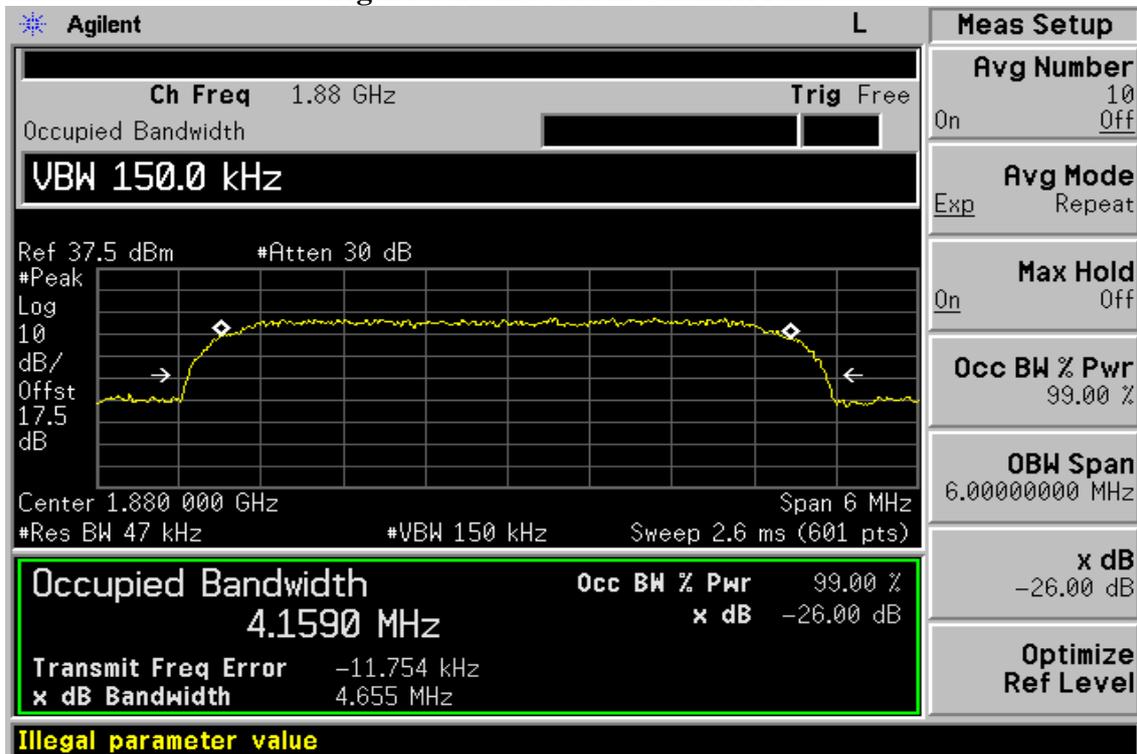


Figure 7-20 HSUPA II Channel Mid



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Figure 7-21: HSUPA II Channel High

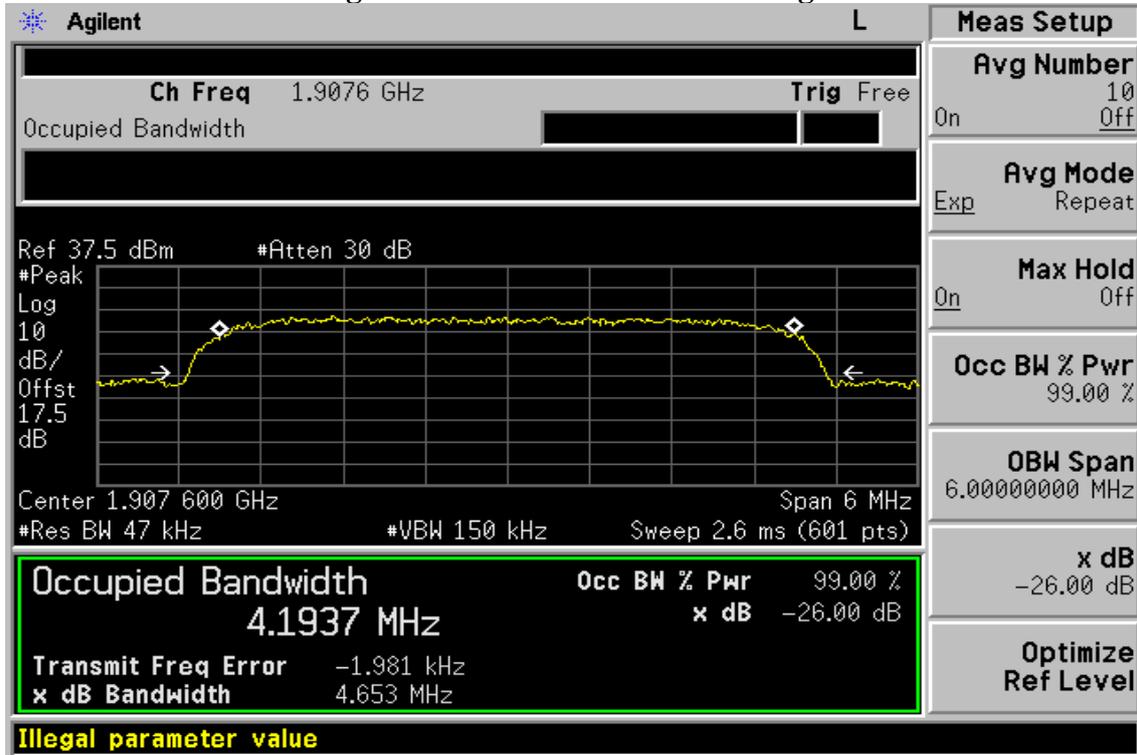
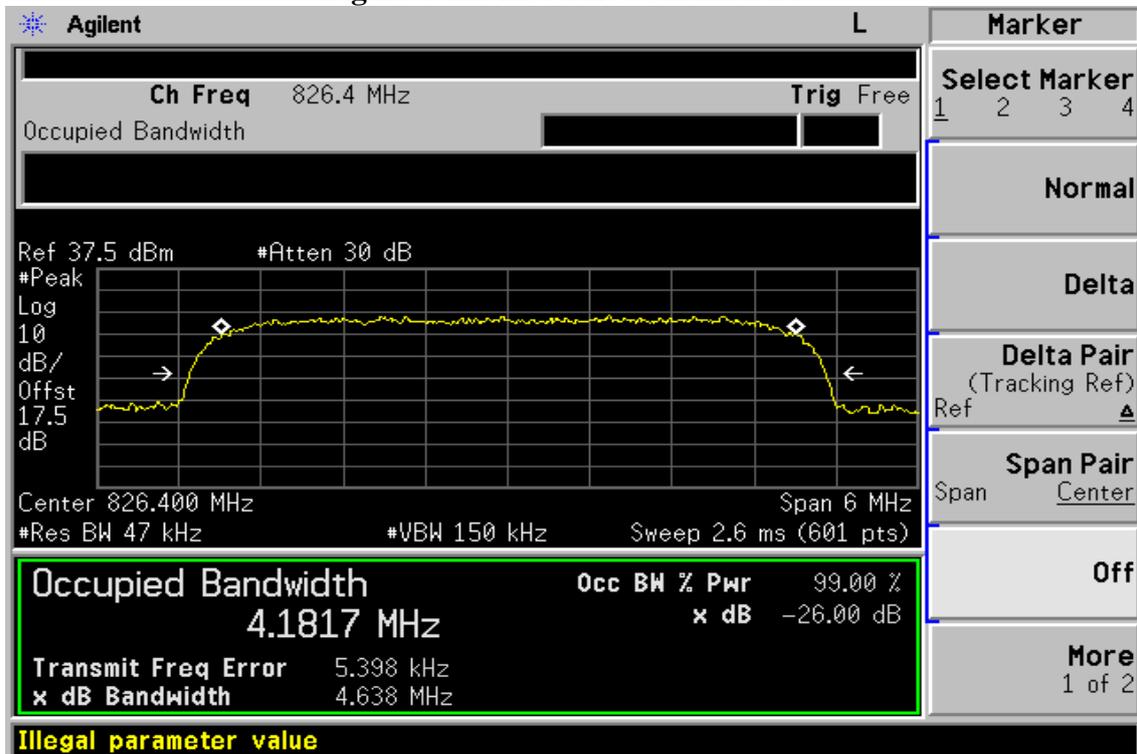


Figure 7-22: HSUPA V Channel Low



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Figure 7-23 HSUPA V Channel Mid

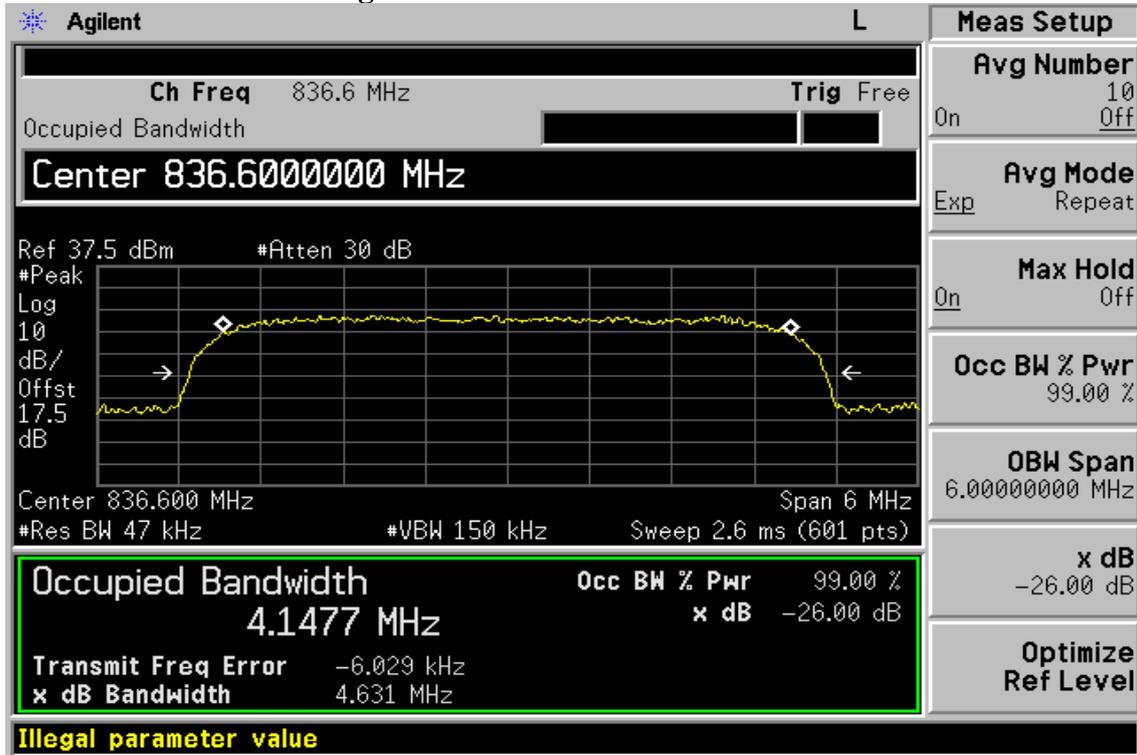
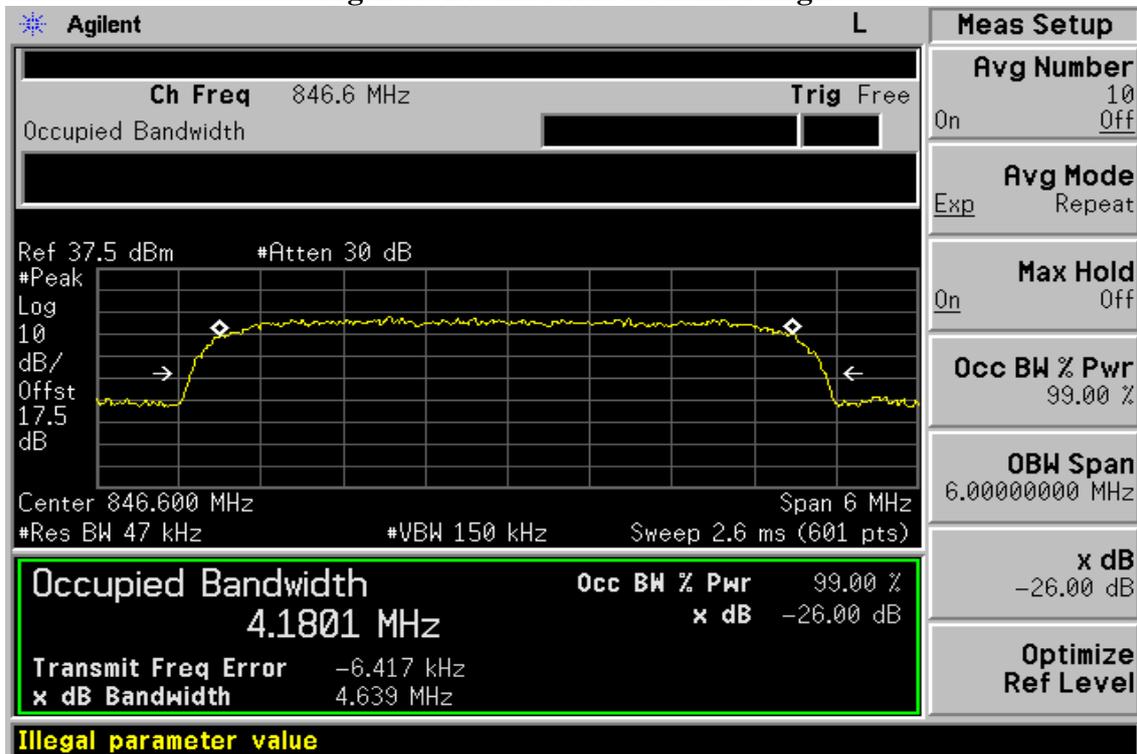


Figure 7-24: HSUPA V Channel High



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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)

According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

Mobile and base station equipment with emission bandwidth less than or equal to 4 MHz shall comply with 4.5.1.1. Mobile station equipment with emission bandwidth greater than 4 MHz shall comply with 4.5.1.2. Base station equipment with emission bandwidth greater than 4 MHz shall comply with either 4.5.1.2 or 4.5.1.3.

4.5.1.1 In the first 1.0 MHz 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. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$, dB, in any 100 kHz bandwidth.

4.5.1.2 In the first 1.0 MHz 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. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$, dB, in any 1 MHz bandwidth

According to RSS-133 §6.5

6.5.1 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.

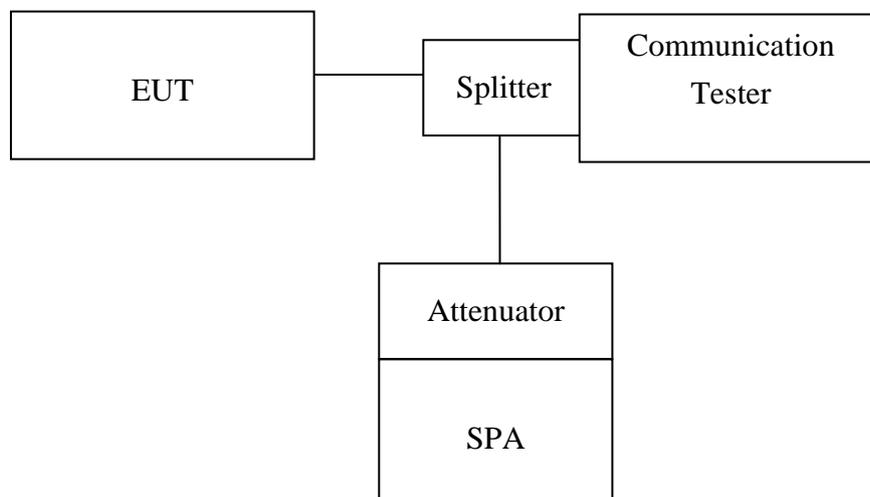
b. After the first 1.0 MHz (for equipment that complies with a.i. of this subsection) or 1.5 MHz (for equipment that complies with all of this subsection), the power of emissions shall be attenuated below the transmitter output power by at least $43 + 10 \log (P)$, dB, per any MHz of bandwidth.

(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 analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

6.5.2 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.

8.2. Test SET-UP:



Note: Measurement setup for testing on Antenna connector

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= 10th harmonic. Limit = -13dBm

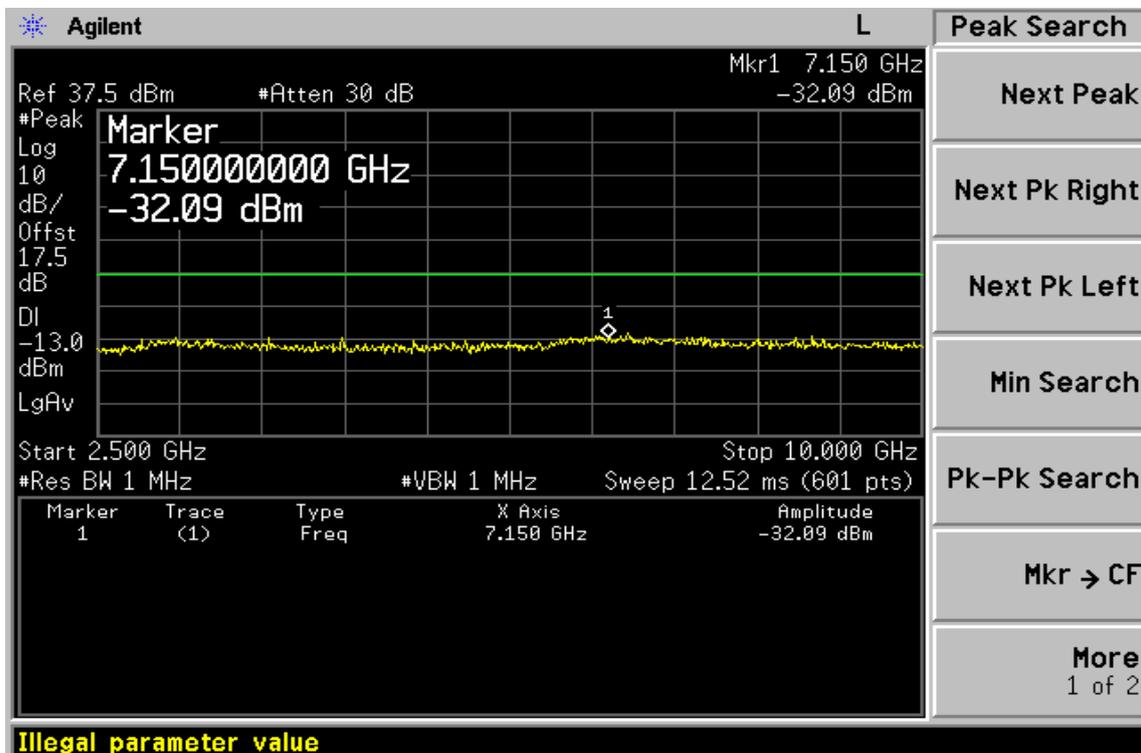
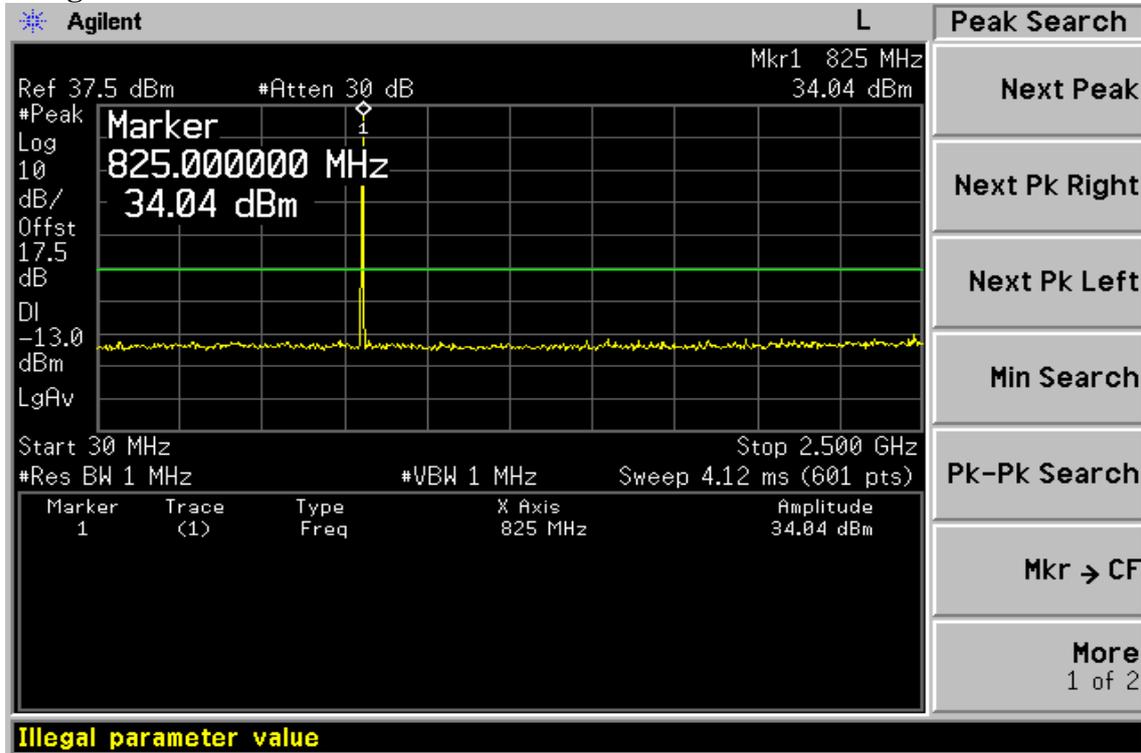
Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

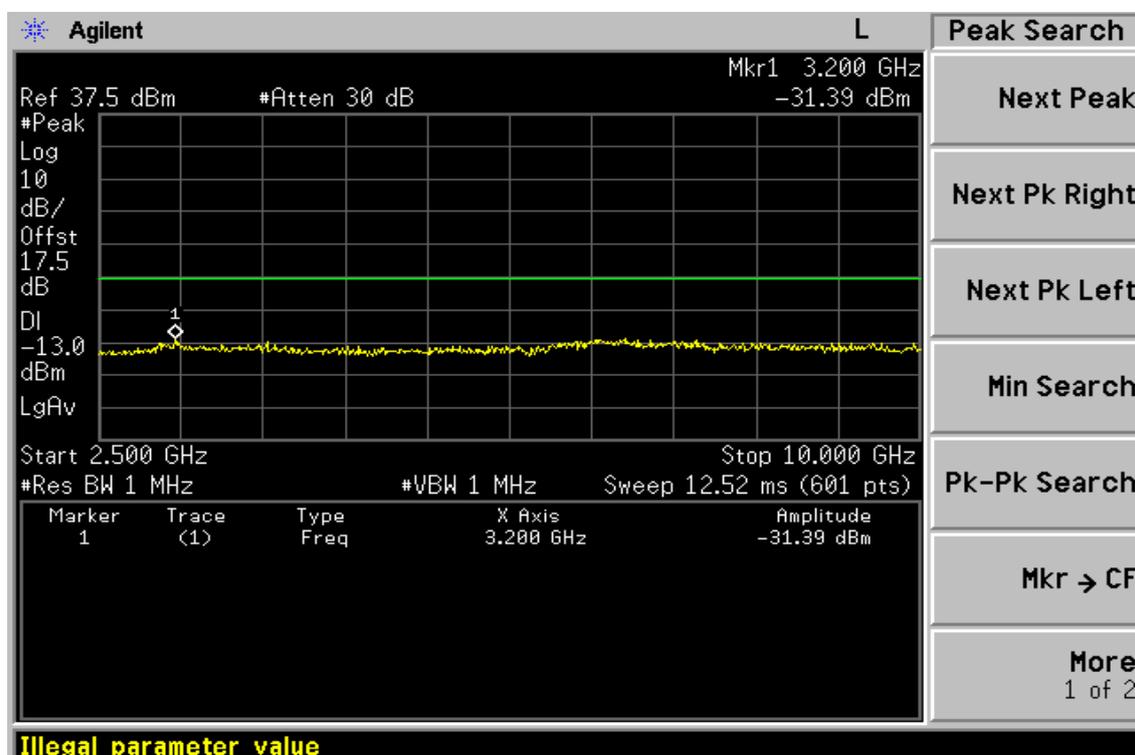
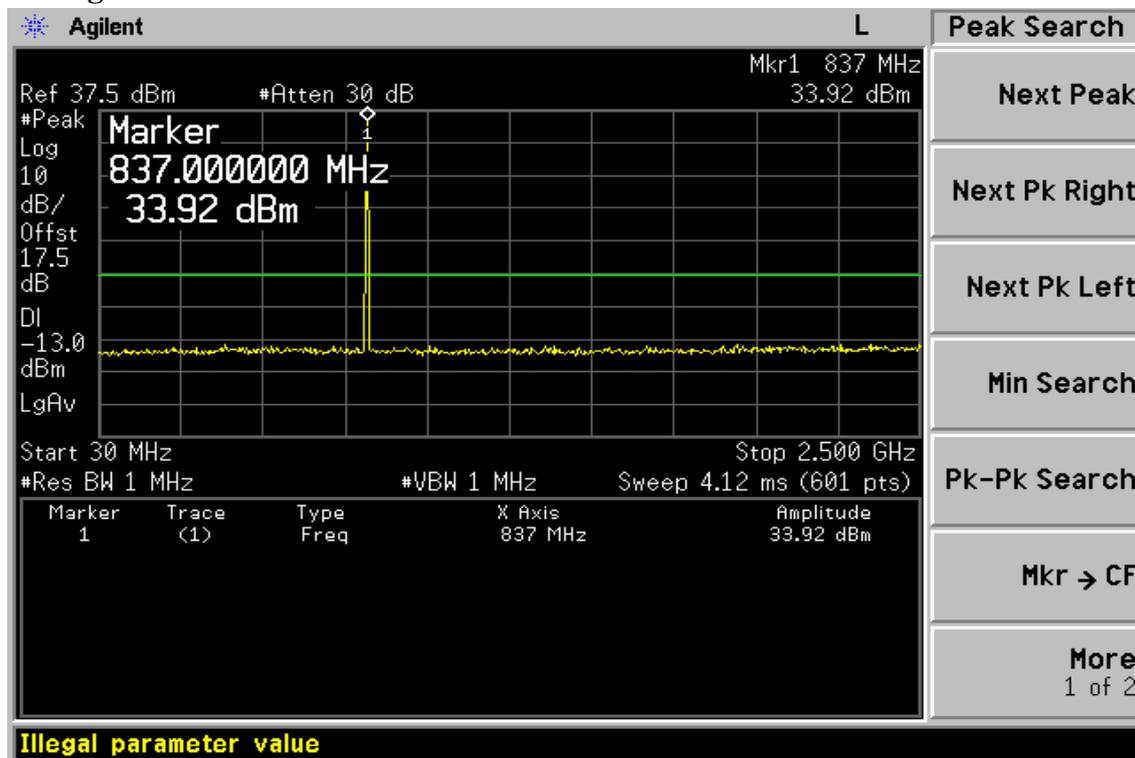
8.5. Measurement Result:

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



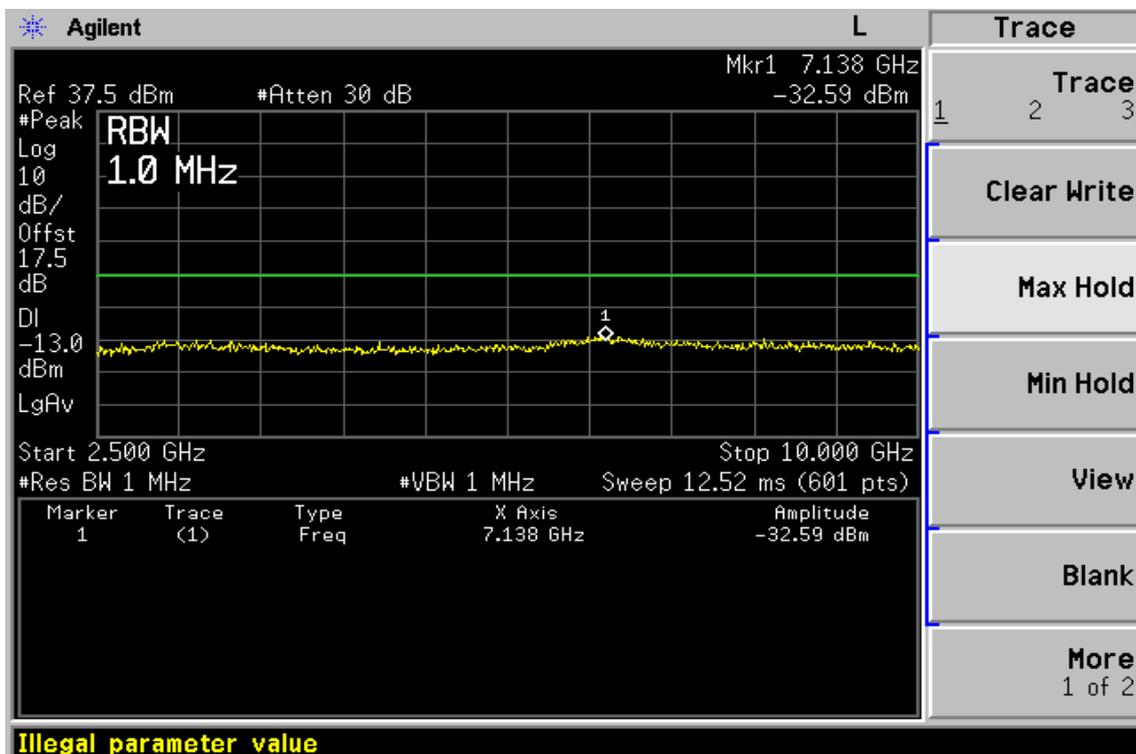
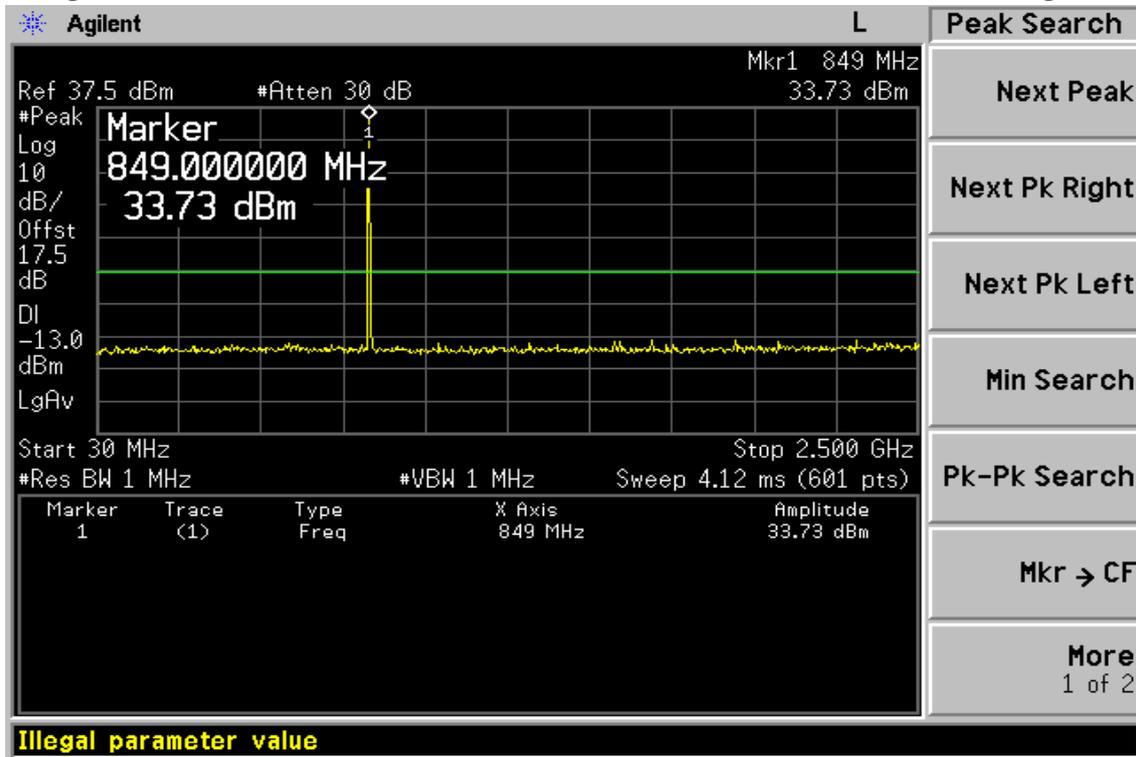
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Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid



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



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

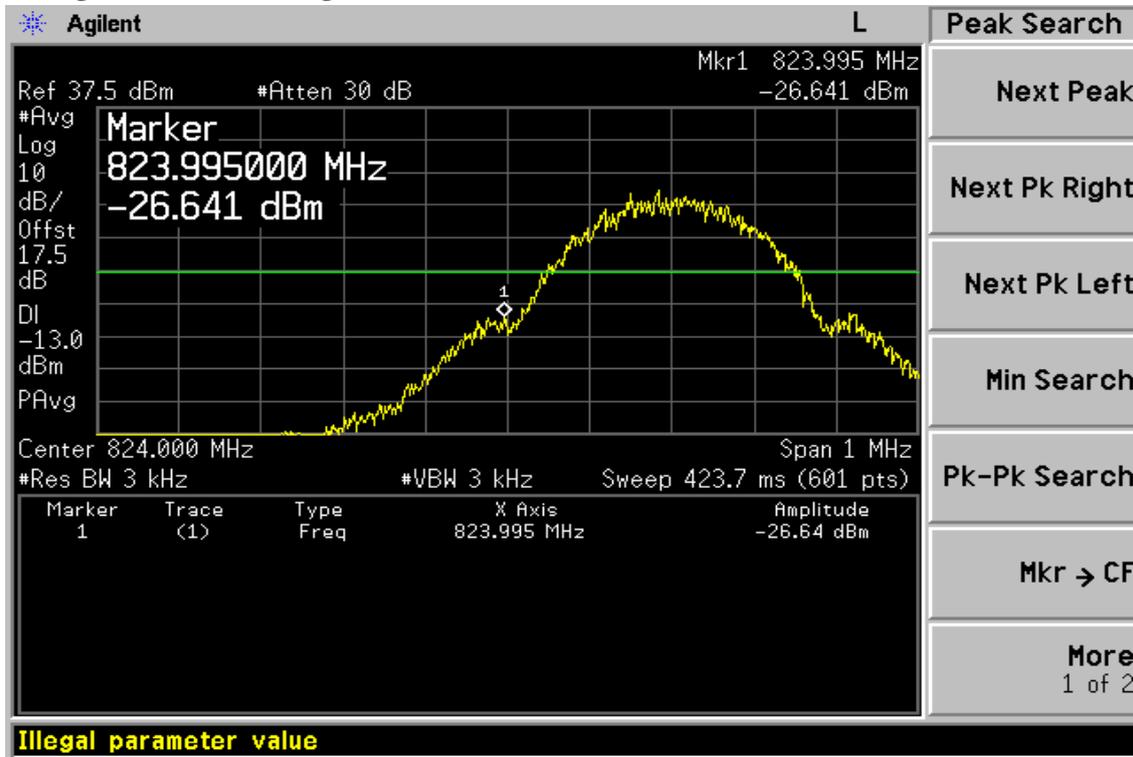
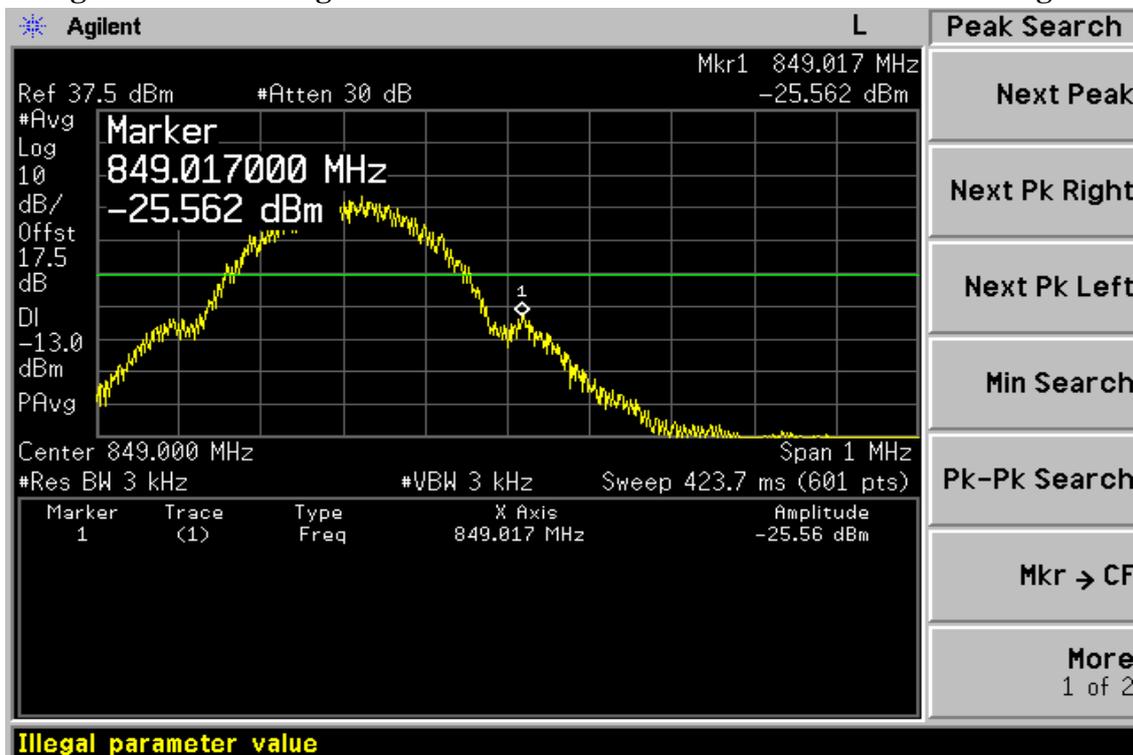
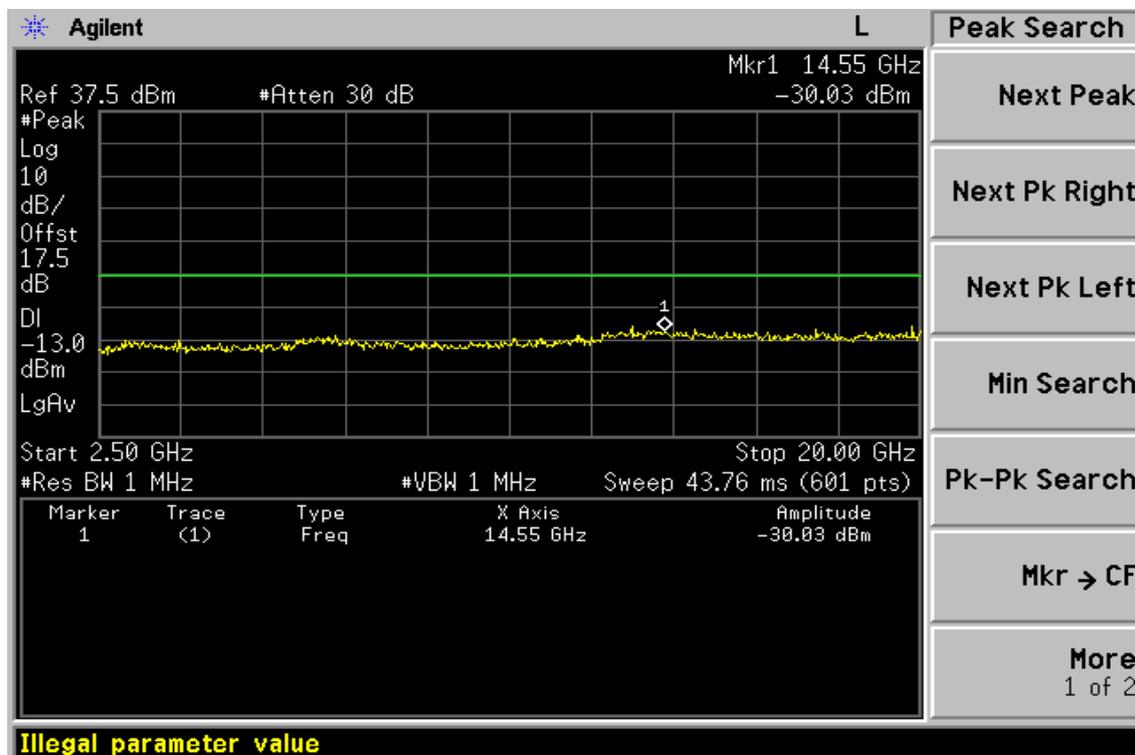
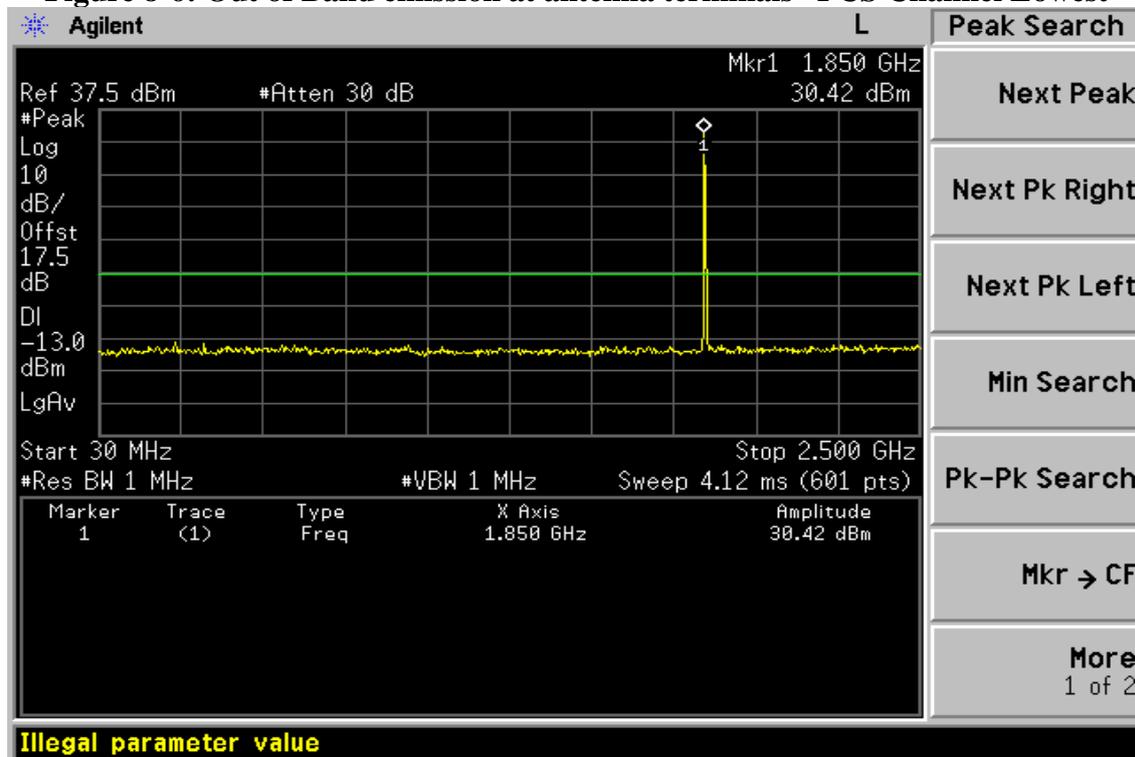


Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest



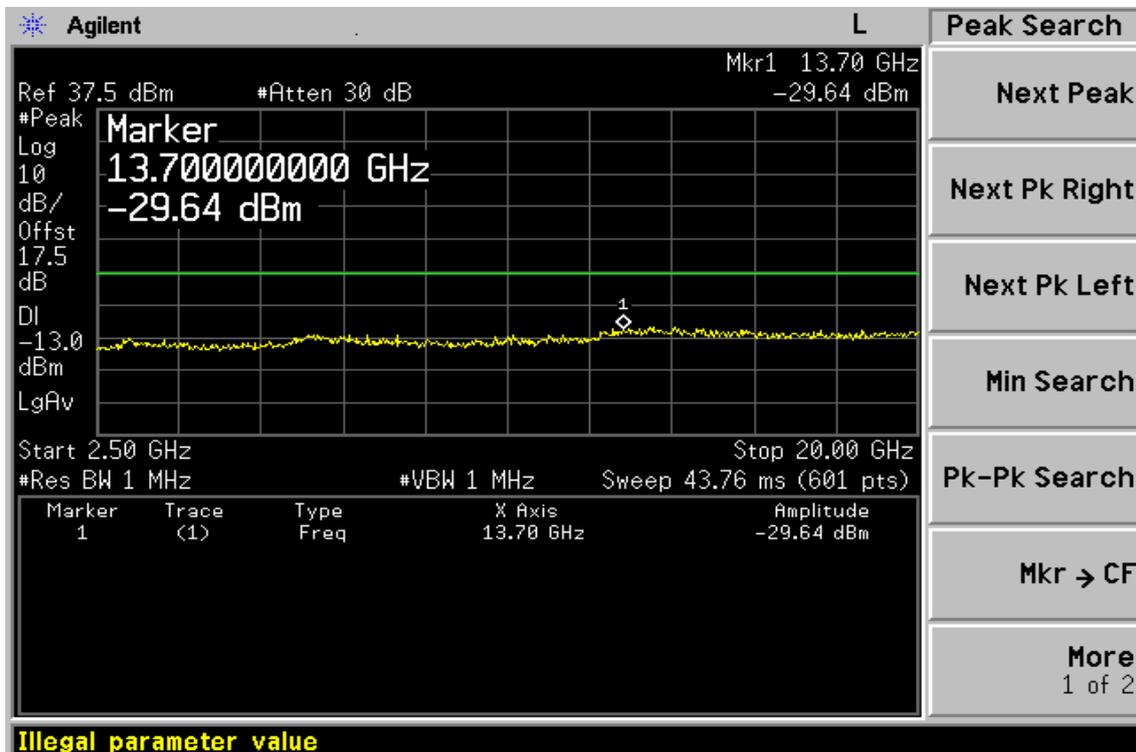
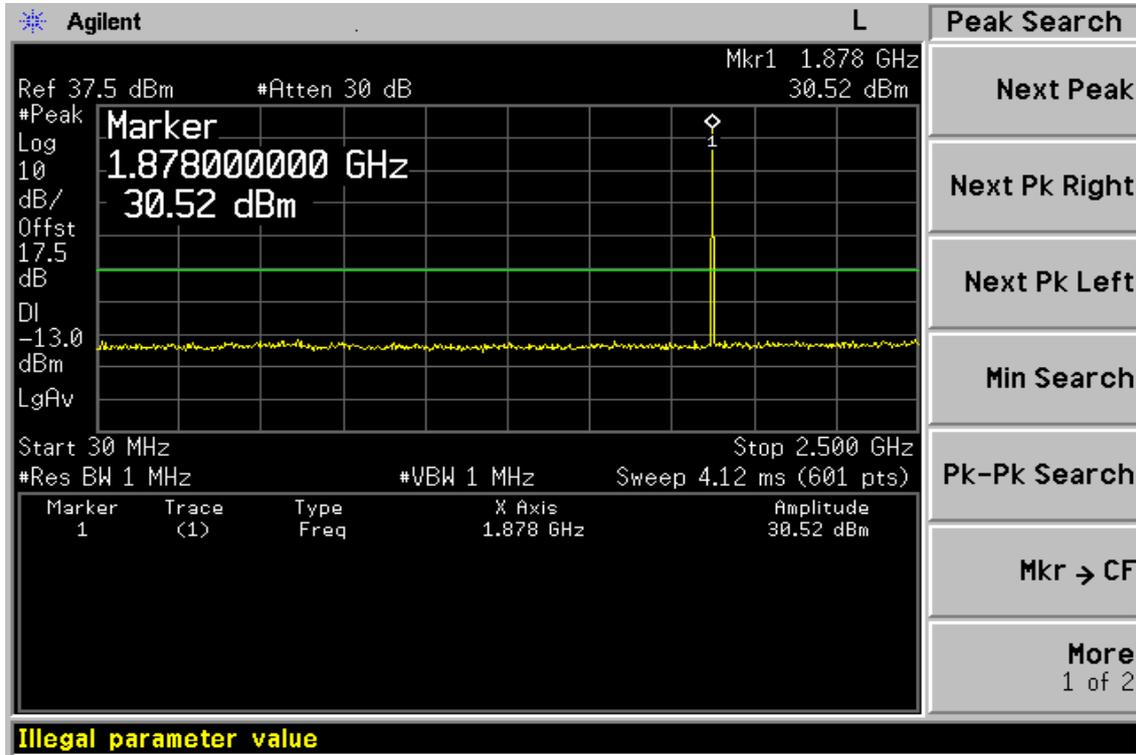
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Figure 8-6: Out of Band emission at antenna terminals– PCS Channel Lowest



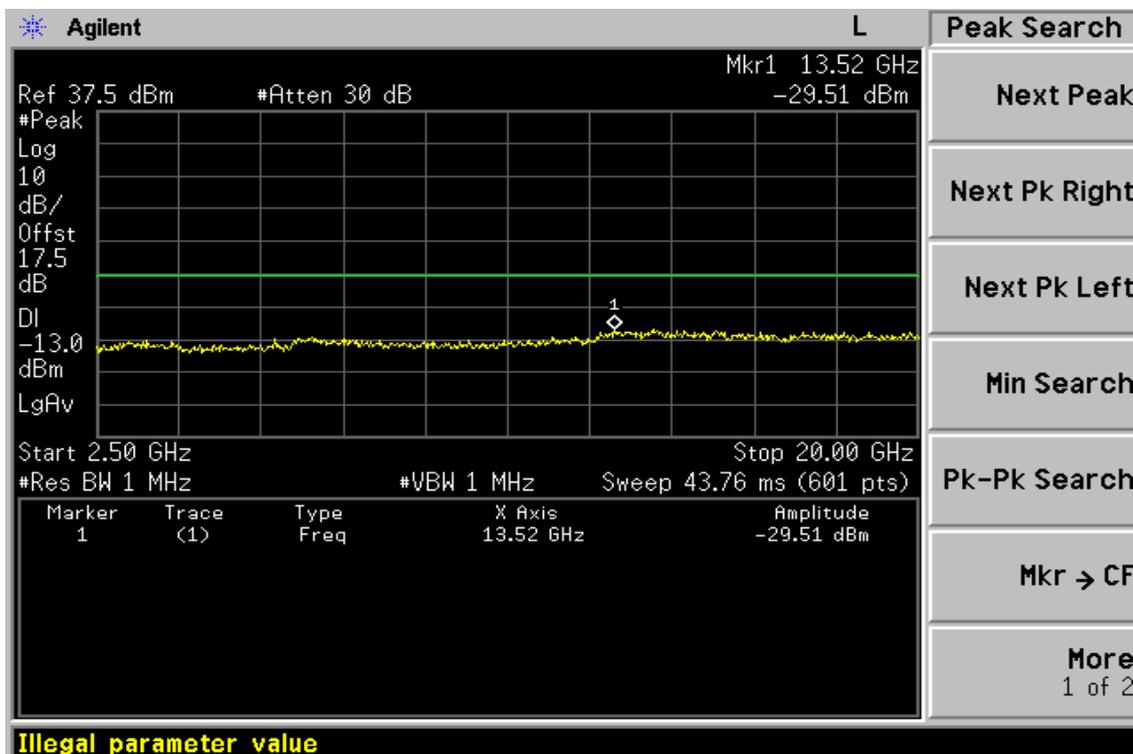
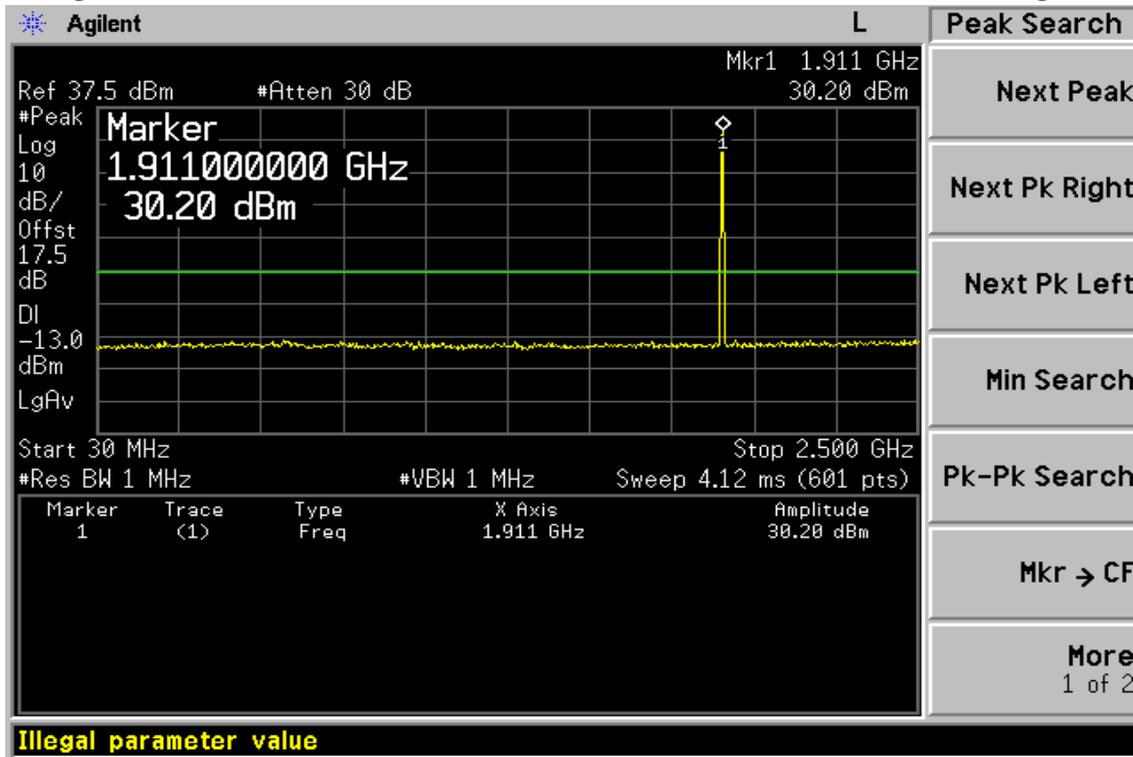
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Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid



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Figure 8-8: Out of Band emission at antenna terminals–PCS Channel Highest



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Figure 8-9: Band edge emission at antenna terminals – PCS Channel Lowest

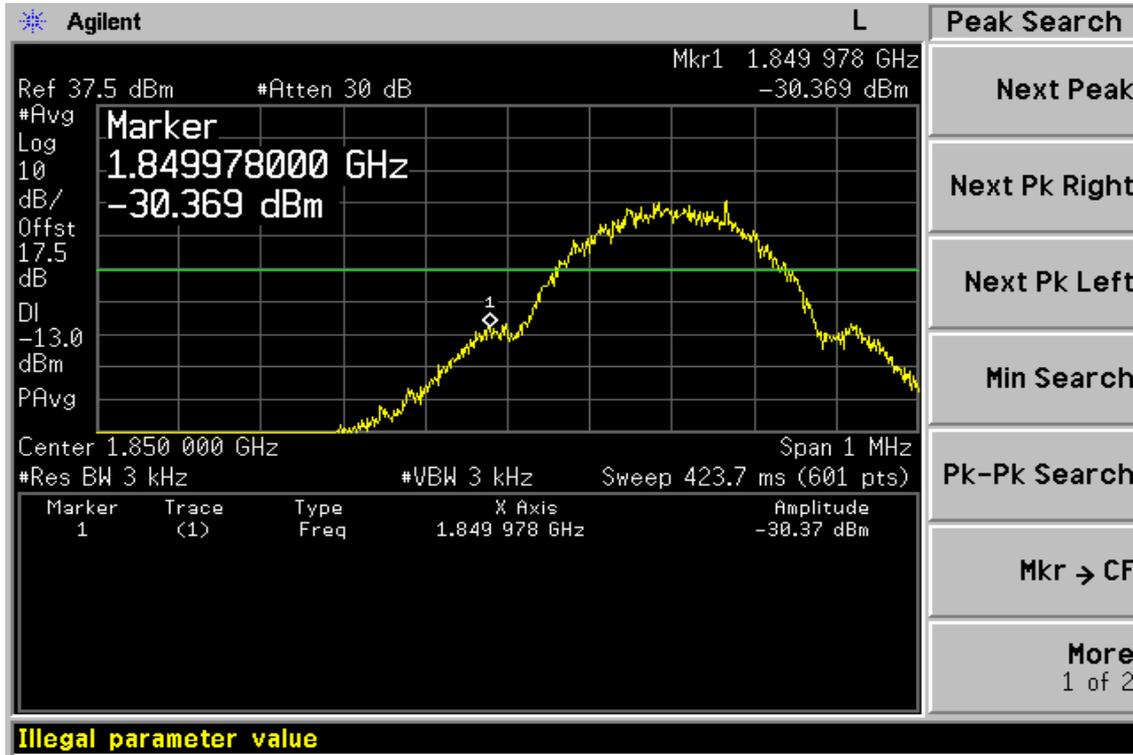
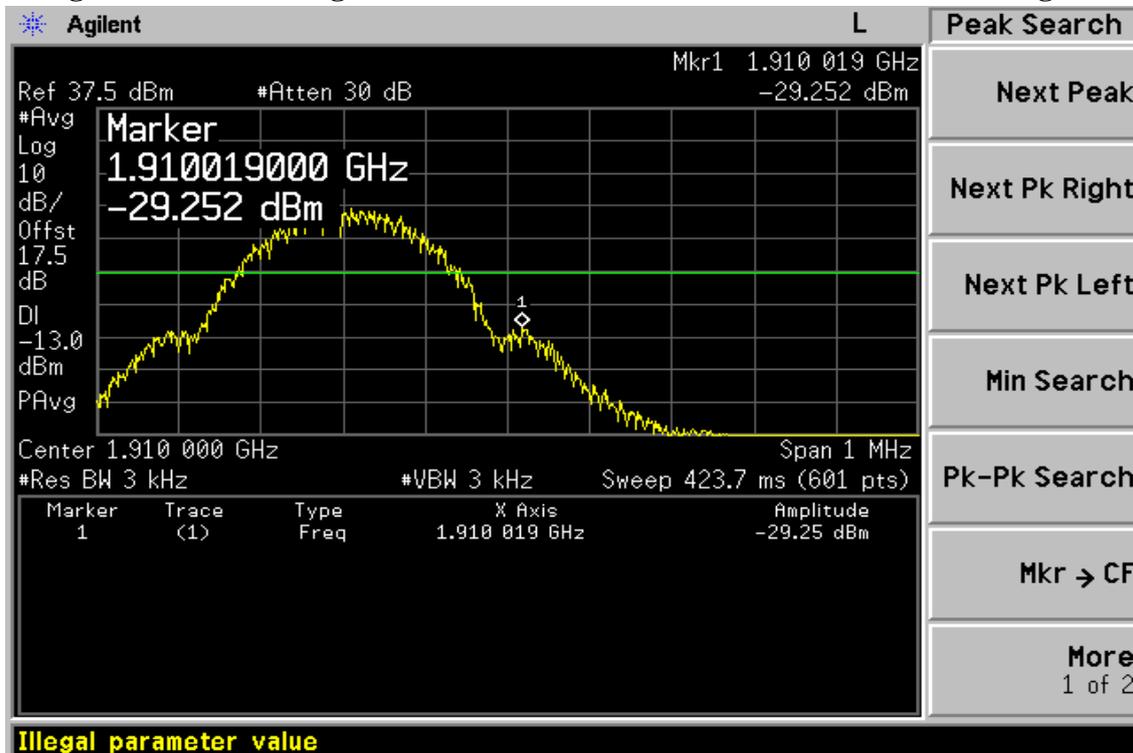
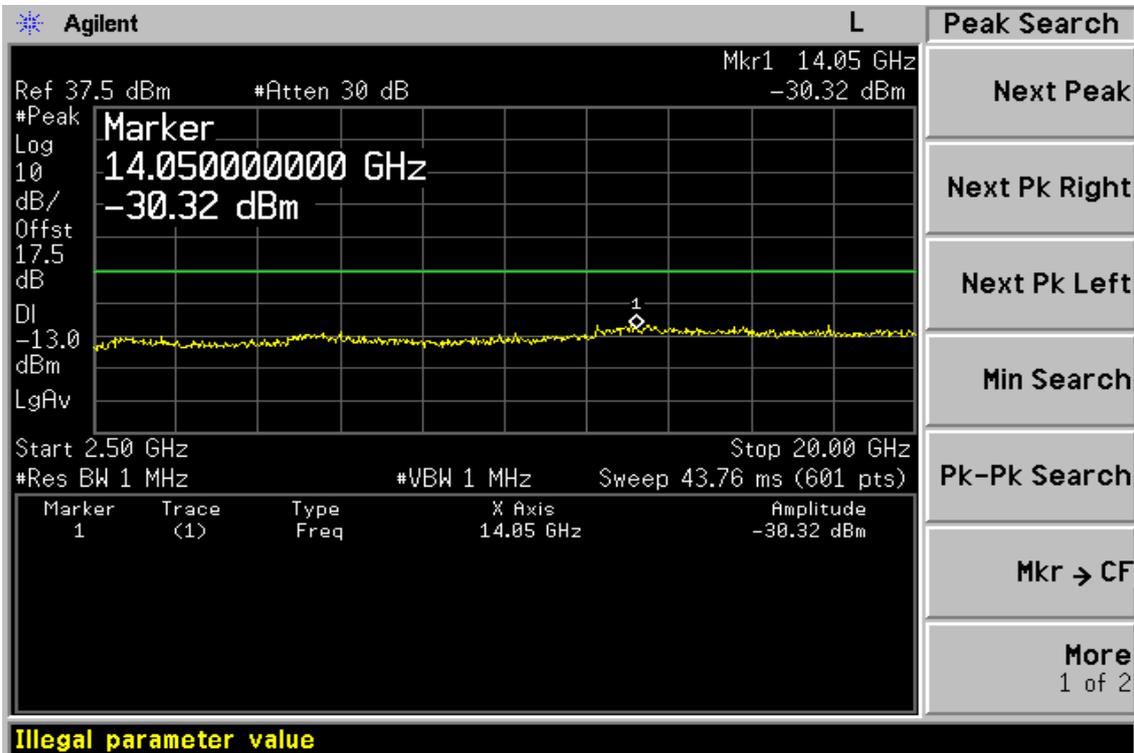
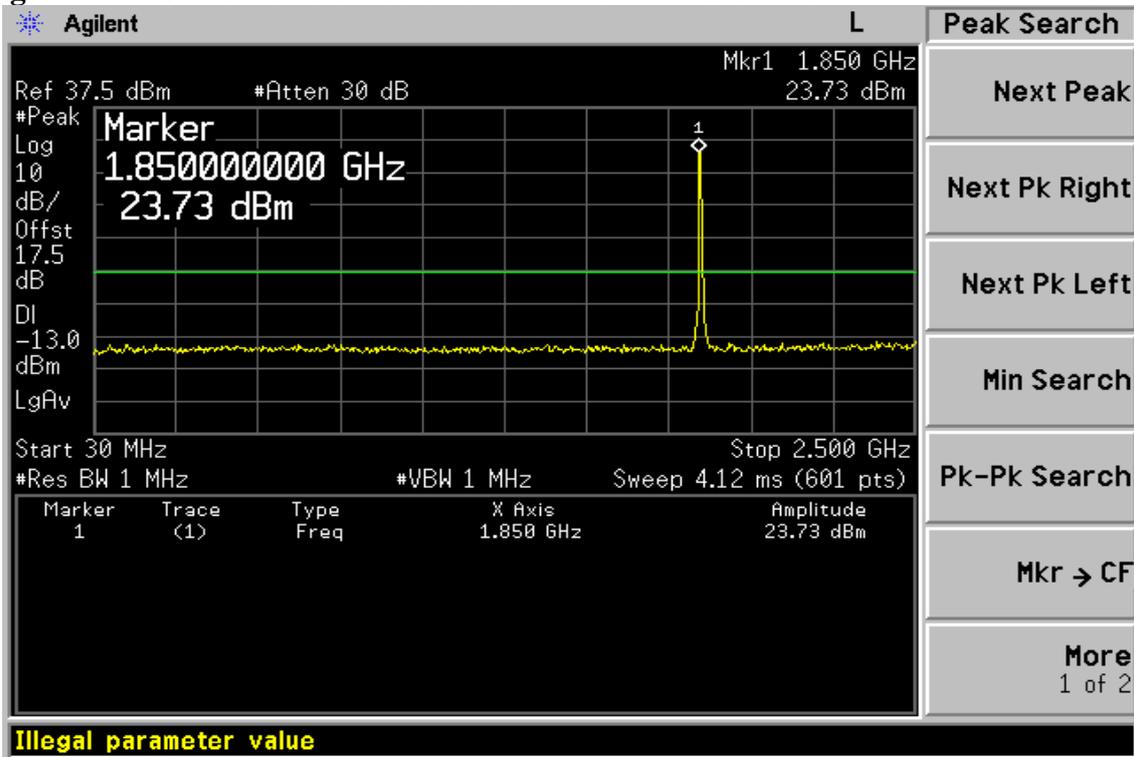


Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



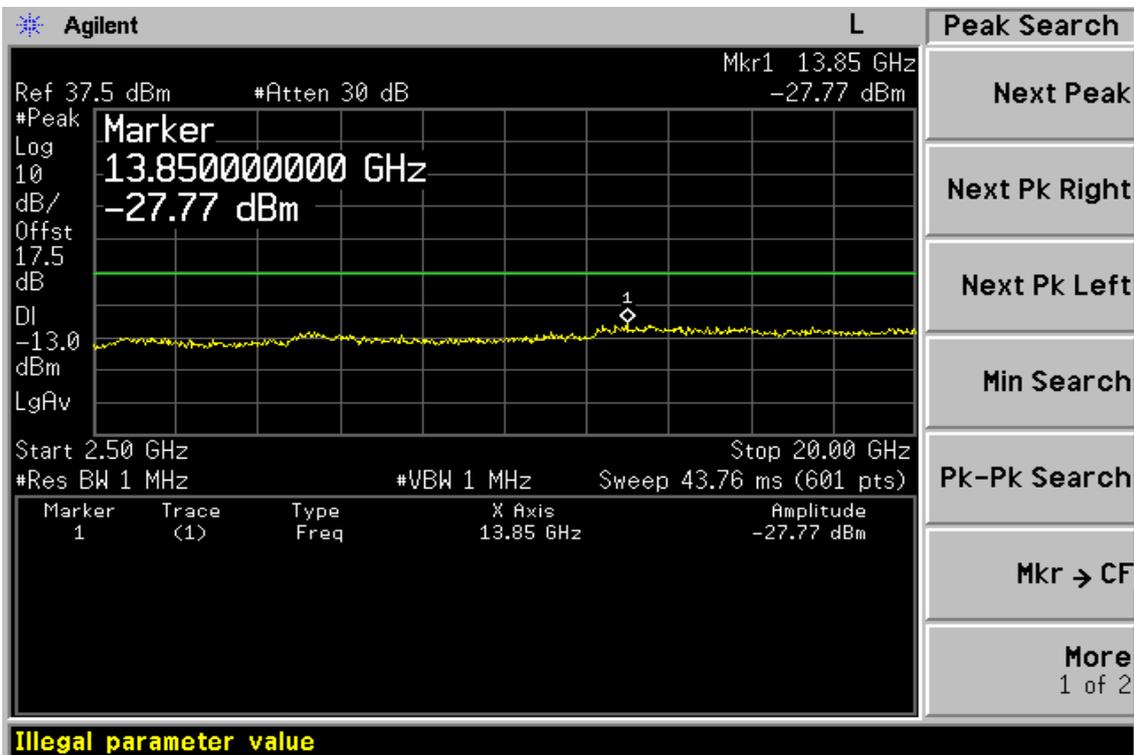
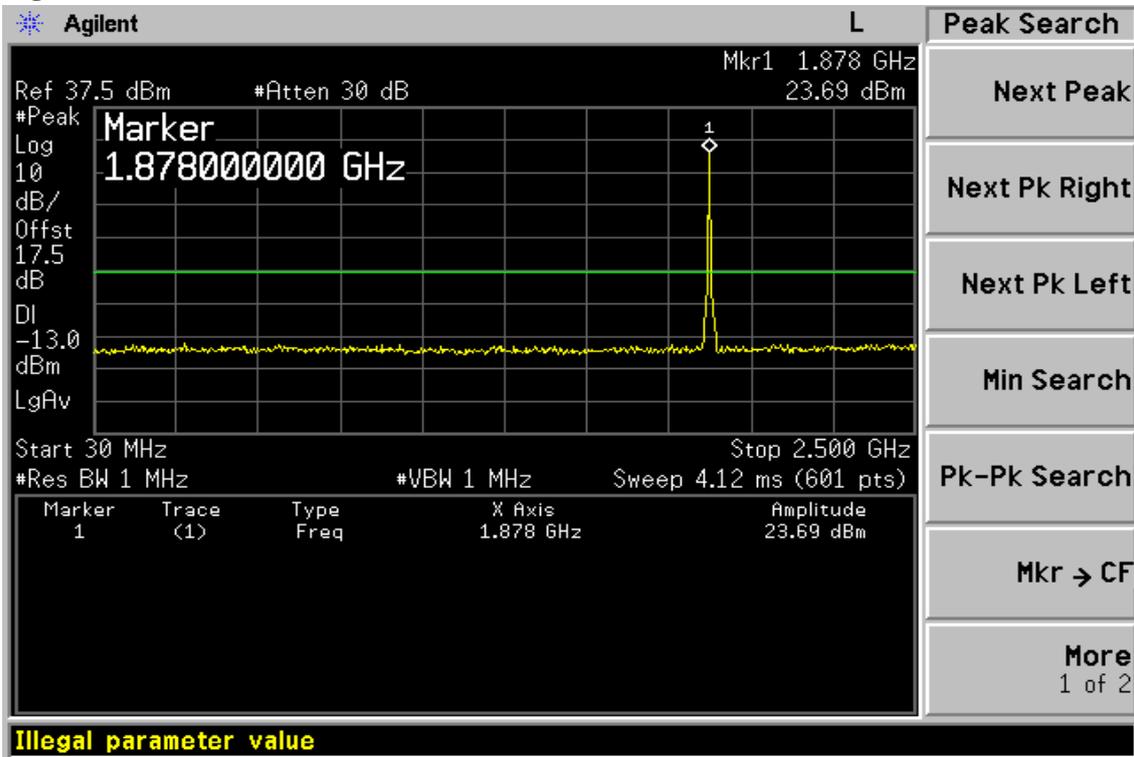
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Figure 8-11: Out of Band emission at antenna terminals– WCDMA II Channel Lowest



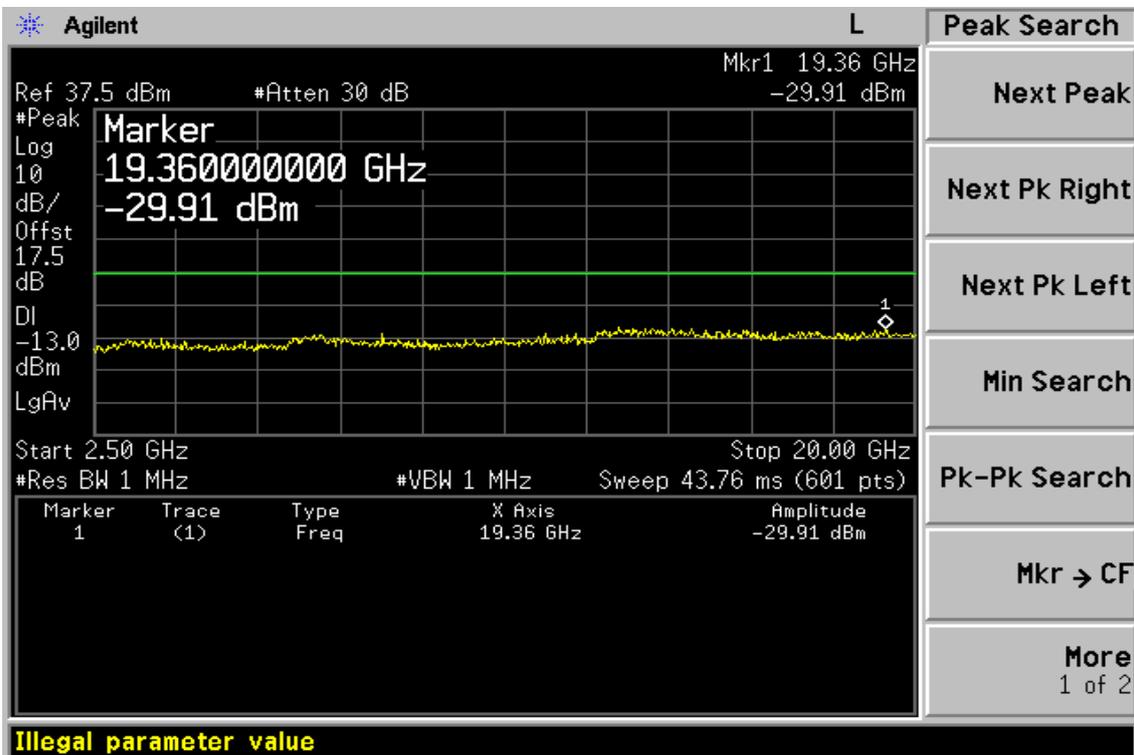
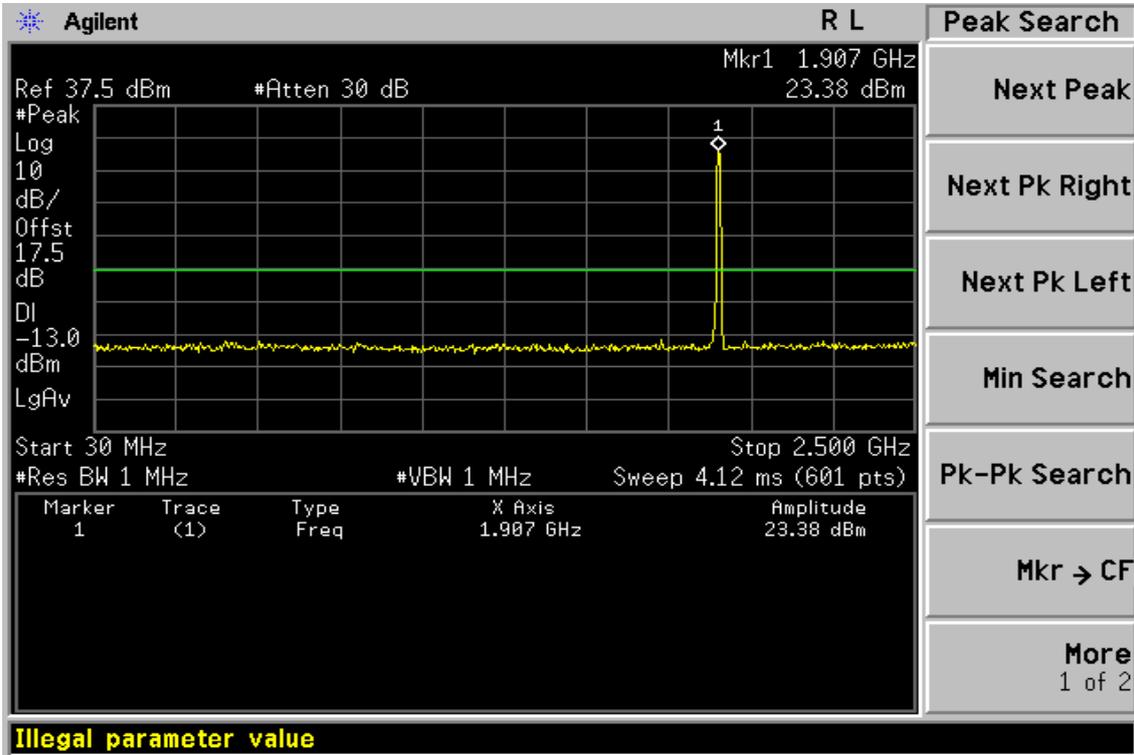
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Figure 8-12: Out of Band emission at antenna terminals –WCDMA II Channel Mid



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Figure 8-13: Out of Band emission at antenna terminals–WCDMA II Channel Highest



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Figure 8-14: Bad edge emission at antenna terminals –WCDMA II Channel Lowest

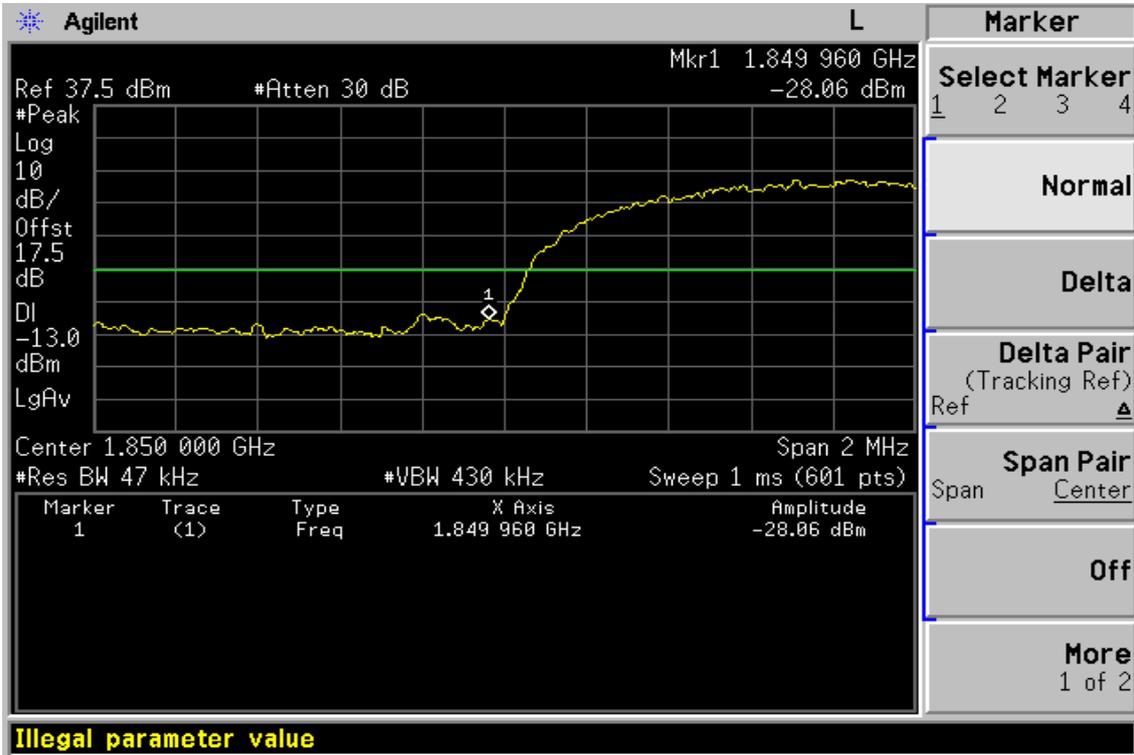
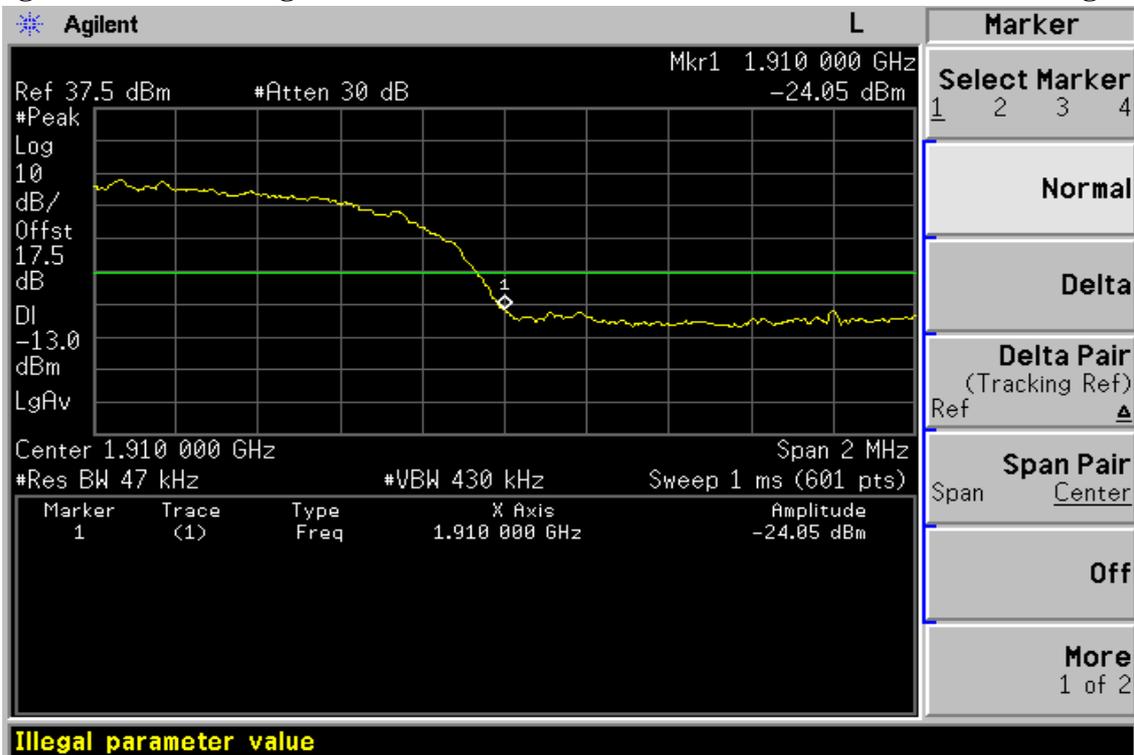
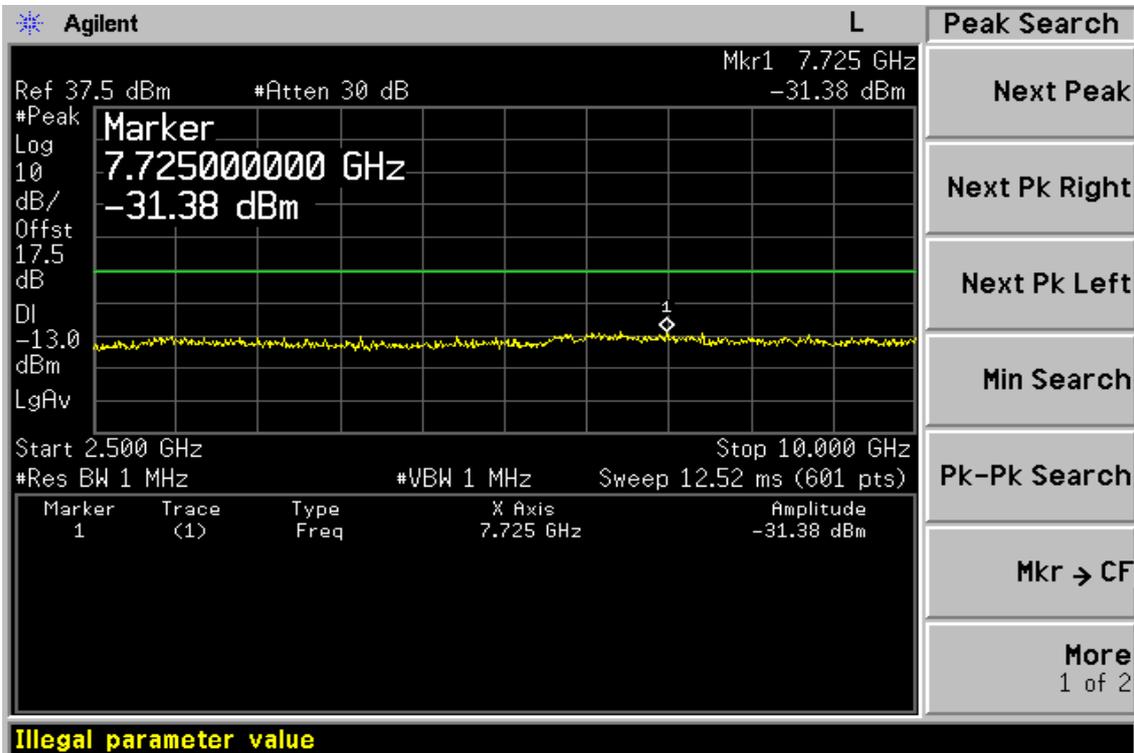
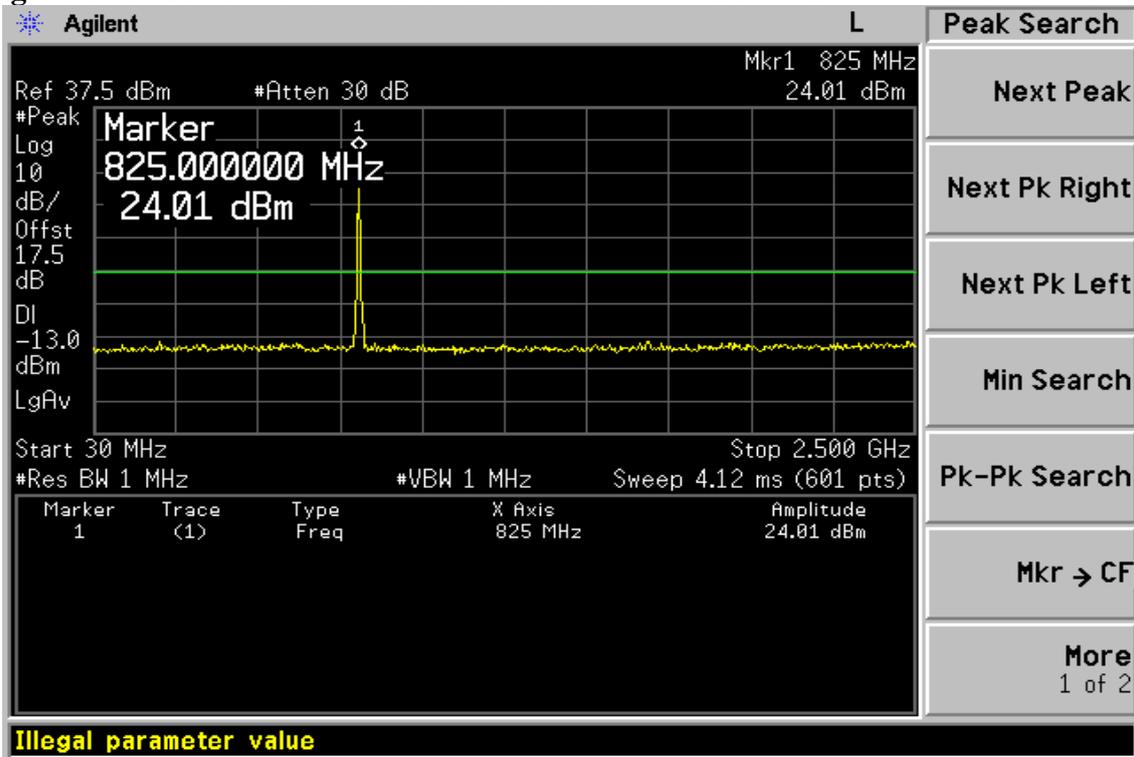


Figure 8-15: Band edge emission at antenna terminals –WCDMA II Channel Highest



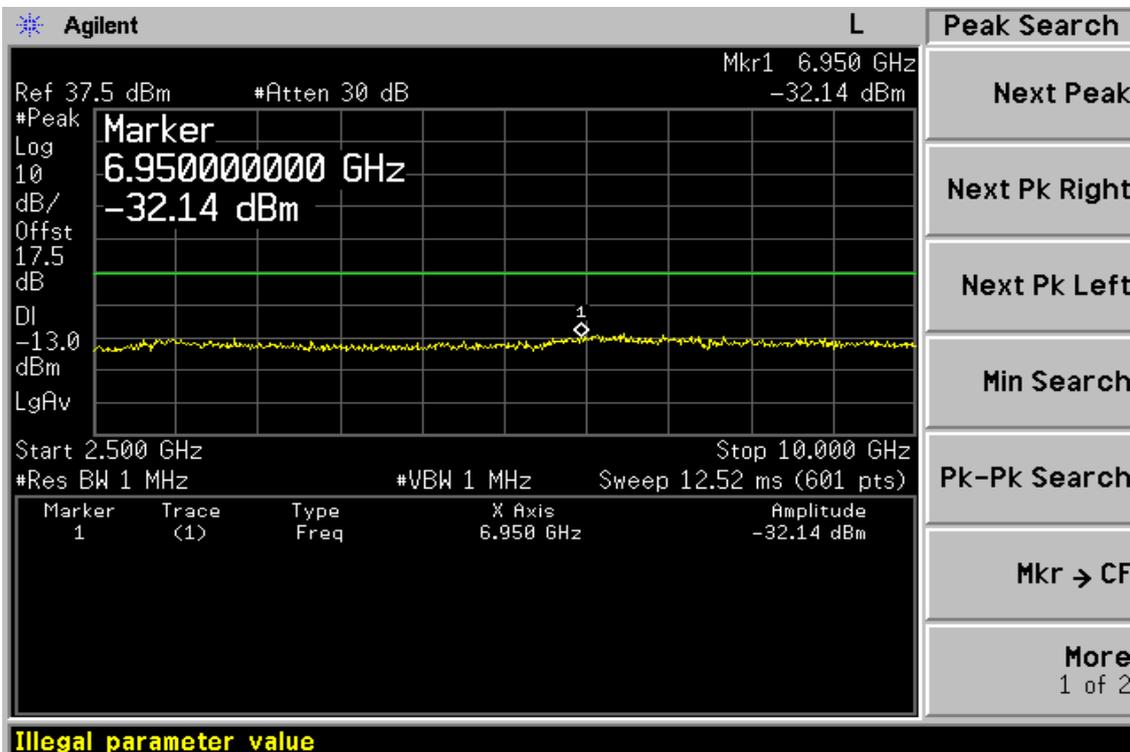
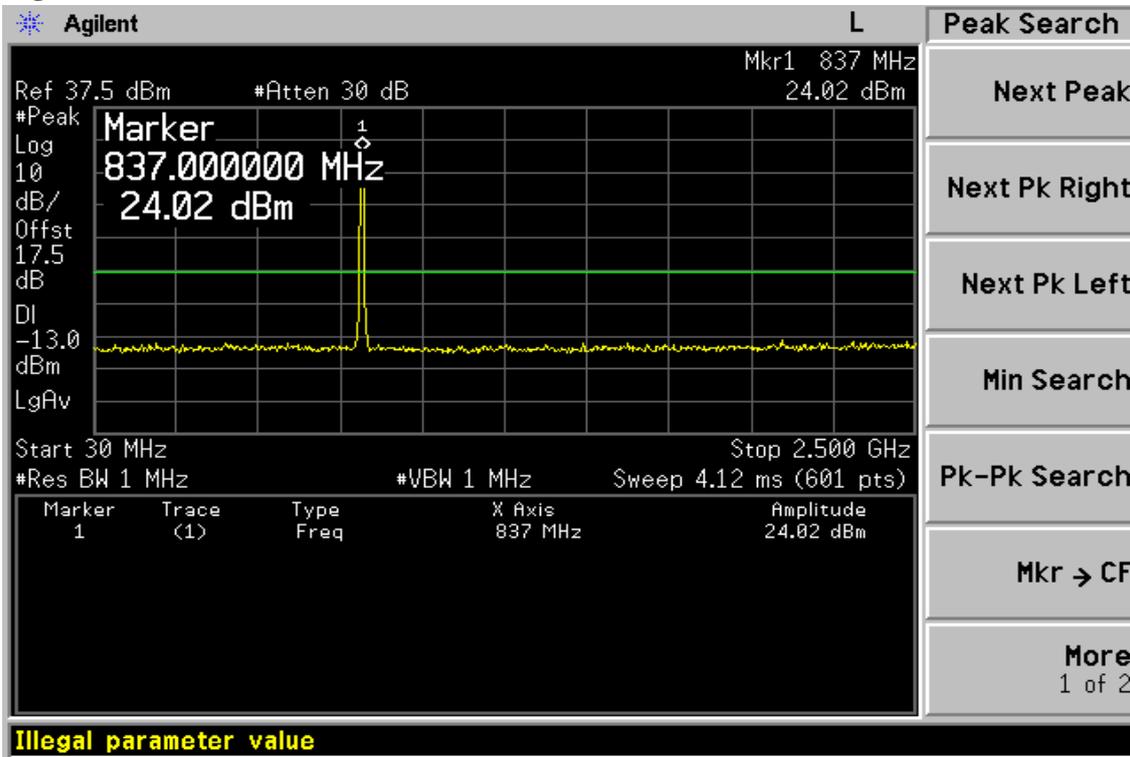
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Figure 8-16: Out of Band emission at antenna terminals– WCDMA V Channel Lowest



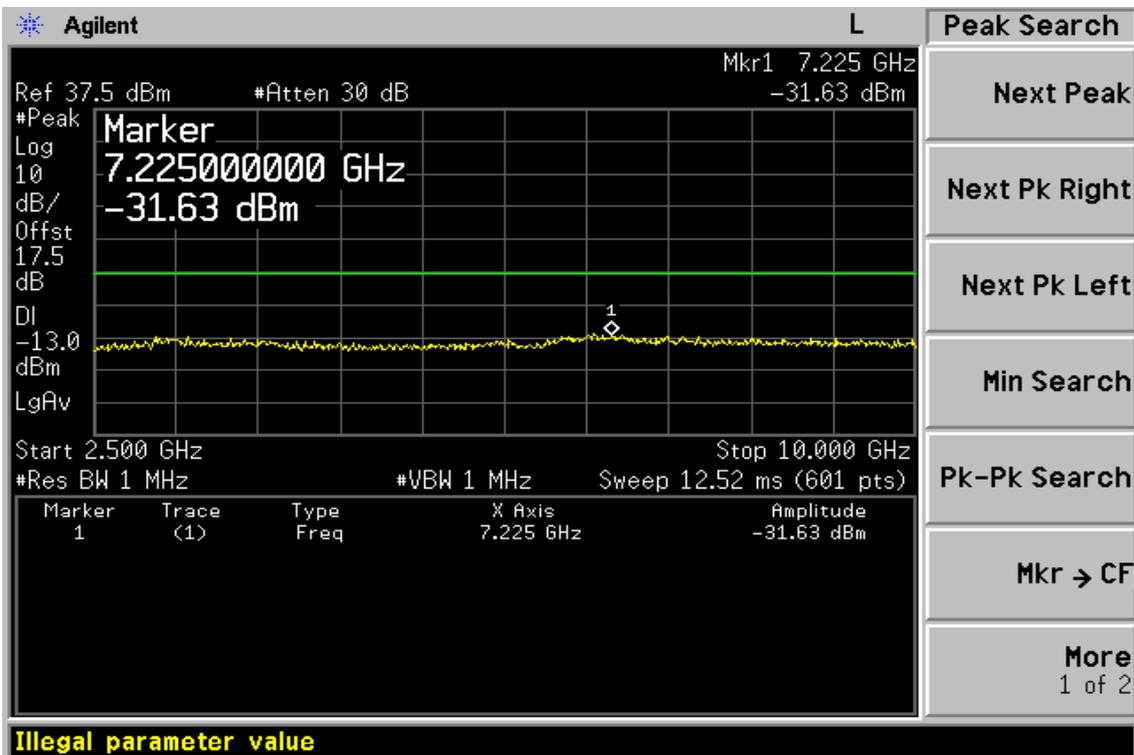
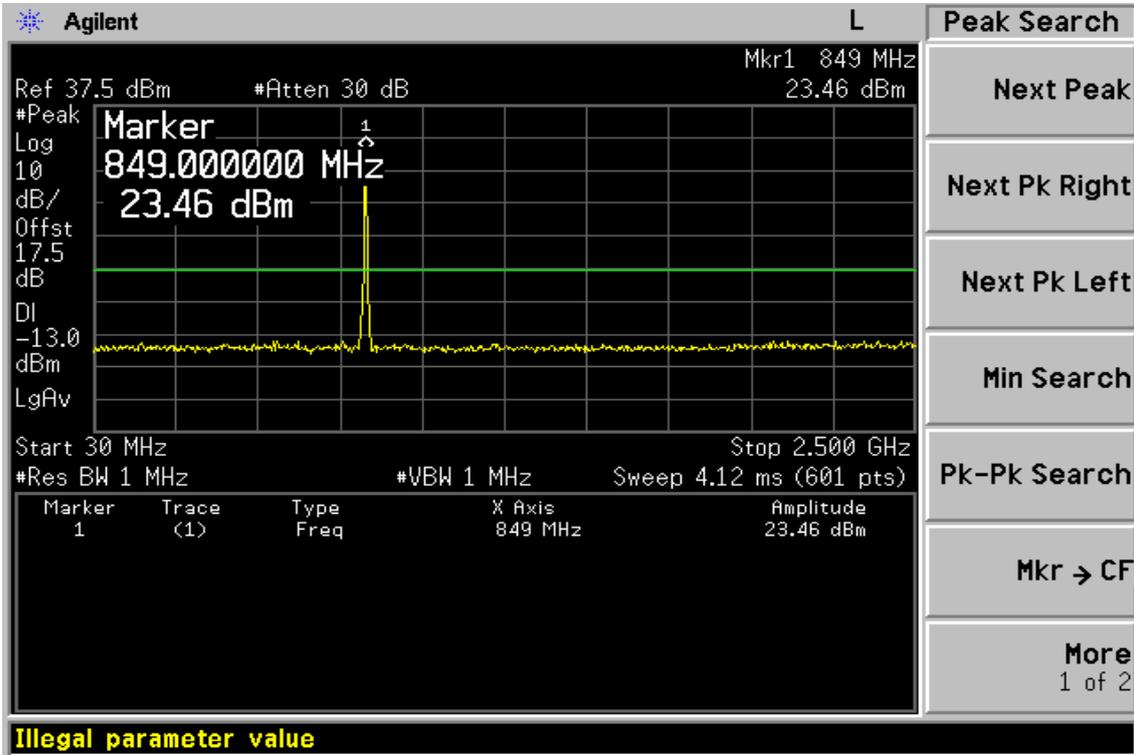
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Figure 8-17: Out of Band emission at antenna terminals –WCDMA V Channel Mid



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Figure 8-18: Out of Band emission at antenna terminals–WCDMA V Channel Highest



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Figure 8-19: Bad edge emission at antenna terminals –WCDMA V Channel Lowest

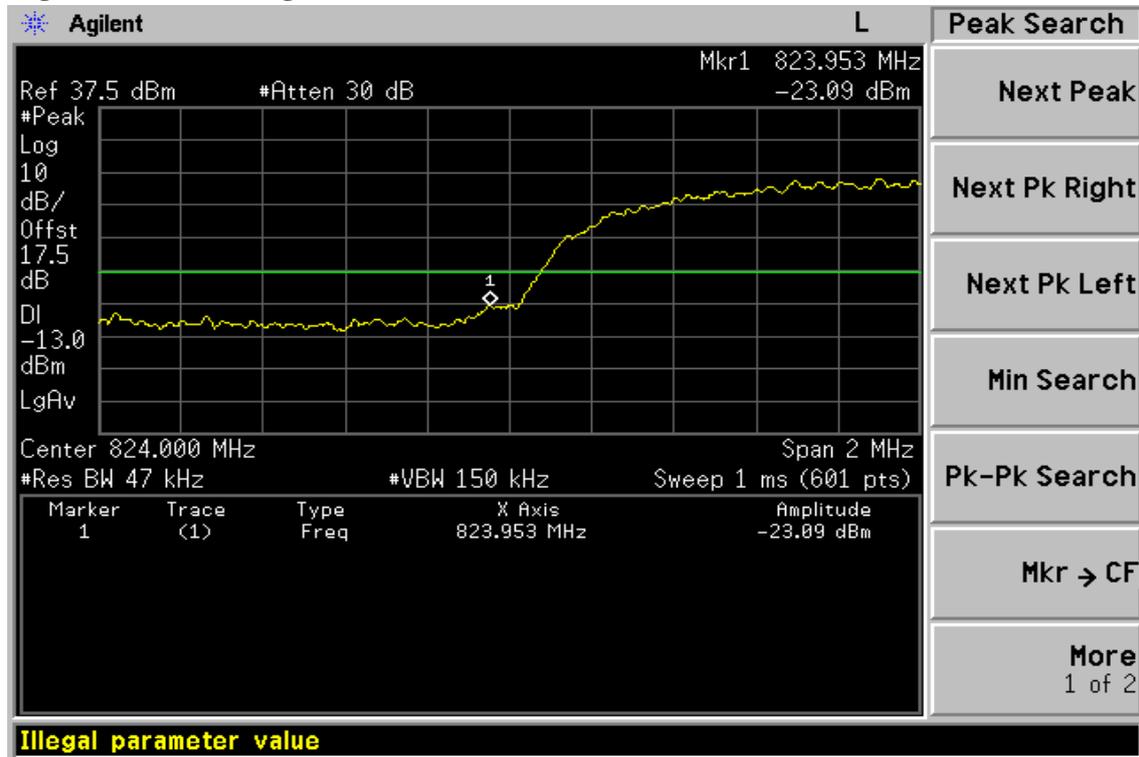
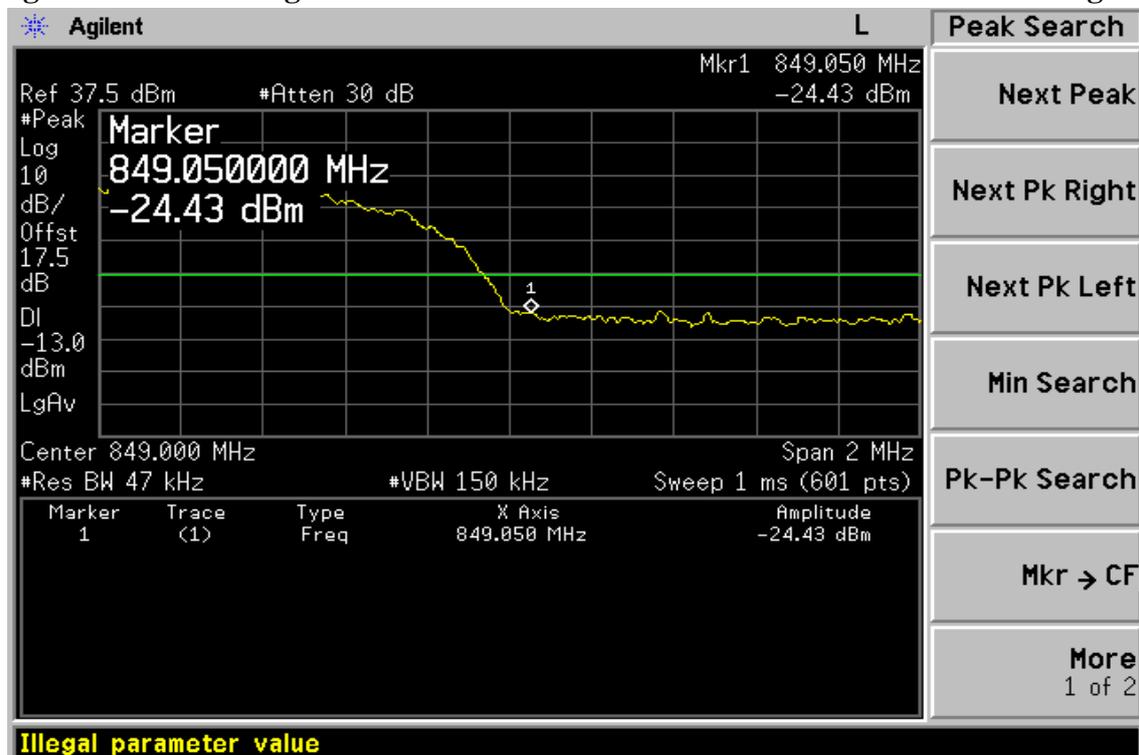


Figure 8-20: Band edge emission at antenna terminals –WCDMA II Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT (TX)

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) dB below the mean power output outside a license's frequency block (-13dBm)

According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

Mobile and base station equipment with emission bandwidth less than or equal to 4 MHz shall comply with 4.5.1.1. Mobile station equipment with emission bandwidth greater than 4 MHz shall comply with 4.5.1.2. Base station equipment with emission bandwidth greater than 4 MHz shall comply with either 4.5.1.2 or 4.5.1.3.

4.5.1.1 In the first 1.0 MHz 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. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$, dB, in any 100 kHz bandwidth.

4.5.1.2 In the first 1.0 MHz 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. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$, dB, in any 1 MHz bandwidth

According to RSS-133 §6.5

6.5.1 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 all 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 analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

6.5.2 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.

9.2. EUT Setup (Block Diagram of Configuration):

Refer to section 6.2 in this report

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 was identified, the power of the emission was determined using the substitution method.

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

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

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

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low Mode	Test Date:	May 14, 2009
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)
96.93	51.78	V	-50.53	-7.76	1.33	-59.62	-13.00	-46.62
623.64	32.79	V	-56.47	-7.80	3.09	-67.36	-13.00	-54.36
824.00	82.70	V	-3.69	-7.87	3.62	-15.19	-13.00	-2.19
1648.40	40.69	V	-63.89	9.29	5.23	-59.83	-13.00	-46.83
2472.60	51.05	V	-49.96	10.08	6.53	-46.41	-13.00	-33.41
3296.80	---	V		12.17	7.71		-13.00	
4121.00	---	V		12.61	8.86		-13.00	
4945.20	---	V		12.65	9.74		-13.00	
5769.40	---	V		13.55	10.54		-13.00	
6593.60	---	V		12.05	11.30		-13.00	
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

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

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low Mode	Test Date:	May 14, 2009
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)
104.69	44.44	H	-58.07	-7.76	1.38	-67.21	-13.00	-54.21
657.59	33.15	H	-56.25	-7.82	3.18	-67.25	-13.00	-54.25
824.00	77.36	H	-8.91	-7.87	3.62	-20.41	-13.00	-7.41
1648.40	38.68	H	-65.72	9.29	5.23	-61.66	-13.00	-48.66
2472.60	50.56	H	-50.35	10.08	6.53	-46.80	-13.00	-33.80
3296.80	---	H		12.17	7.71		-13.00	
4121.00	---	H		12.61	8.86		-13.00	
4945.20	---	H		12.65	9.74		-13.00	
5769.40	---	H		13.55	10.54		-13.00	
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

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

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May 14, 2009
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 Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
96.93	51.68	V	-50.63	-7.76	1.33	-59.72	-13.00	-46.72
625.58	32.05	V	-57.19	-7.80	3.10	-68.08	-13.00	-55.08
1673.20	38.69	V	-65.87	9.36	5.27	-61.77	-13.00	-48.77
2509.80	51.24	V	-49.54	10.09	6.58	-46.04	-13.00	-33.04
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

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

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May 14, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	44.39	H	-58.12	-7.76	1.38	-67.26	-13.00	-54.26
647.89	33.28	H	-56.48	-7.81	3.15	-67.45	-13.00	-54.45
1673.20	---	H		9.36	5.27		-13.00	
2509.80	53.96	H	-46.74	10.09	6.58	-43.24	-13.00	-30.24
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

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

Remark:

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

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH High Mode	Test Date:	May 14, 2009
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)
96.93	52.45	V	-49.86	-7.76	1.33	-58.95	-13.00	-45.95
701.24	32.32	V	-57.06	-7.86	3.29	-68.22	-13.00	-55.22
850.00	84.01	V	-2.10	-7.88	3.68	-13.66	-13.00	-0.66
1697.60	---	V		9.44	5.31		-13.00	
2546.40	47.62	V	-53.02	10.20	6.63	-49.46	-13.00	-36.46
3395.20	---	V		12.38	7.87		-13.00	
4244.00	---	V		12.63	9.00		-13.00	
5092.80	---	V		12.74	9.88		-13.00	
5941.60	---	V		13.81	10.70		-13.00	
6790.40	---	V		11.86	11.48		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
8488.00	---	V		11.70	12.91		-13.00	

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

Remark:

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Low Mode	Test Date:	May 14, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
96.93	52.05	V	-50.26	-7.76	1.33	-59.35	-13.00	-46.35
373.38	33.39	V	-63.24	-7.65	2.43	-73.32	-13.00	-60.32
1850.00	68.85	V	-35.54	9.90	5.56	-31.20	-13.00	-18.20
3700.40	40.13	V	-57.80	12.61	8.31	-53.50	-13.00	-40.50
5550.60	41.60	V	-49.24	13.23	10.33	-46.34	-13.00	-33.34
7400.80	---	V		11.50	12.08		-13.00	
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	
18502.00	---	V		18.75	10.40		-13.00	

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

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Low Mode	Test Date:	May 14, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	44.14	H	-58.37	-7.76	1.38	-67.51	-13.00	-54.51
424.79	32.52	H	-62.65	-7.68	2.58	-72.91	-13.00	-59.91
1850.00	82.14	H	-22.04	9.90	5.56	-17.70	-13.00	-4.70
3700.40	41.79	H	-56.25	12.61	8.31	-51.95	-13.00	-38.95
5550.60	41.84	H	-49.21	13.23	10.33	-46.31	-13.00	-33.31
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

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: PCS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May 14, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
96.93	51.63	V	-50.68	-7.76	1.33	-59.77	-13.00	-46.77
644.98	32.81	V	-56.18	-7.81	3.15	-67.13	-13.00	-54.13
3760.00	43.35	V	-54.31	12.60	8.39	-50.09	-13.00	-37.09
5640.00	44.88	V	-45.70	13.36	10.41	-42.75	-13.00	-29.75
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

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

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May 14, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	44.42	H	-58.09	-7.76	1.38	-67.23	-13.00	-54.23
3760.00	42.72	H	-55.05	12.60	8.39	-50.84	-13.00	-37.84
5640.00	44.50	H	-46.25	13.36	10.41	-43.30	-13.00	-30.30
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

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

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High Mode	Test Date:	May 14, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
96.93	51.74	V	-50.57	-7.76	1.33	-59.66	-13.00	-46.66
1910.00	69.20	V	-35.13	10.08	5.66	-30.71	-13.00	-17.71
3819.60	44.64	V	-52.75	12.60	8.47	-48.62	-13.00	-35.62
5729.40	46.09	V	-44.23	13.49	10.50	-41.23	-13.00	-28.23
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High Mode	Test Date:	May 14, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	44.39	H	-58.12	-7.76	1.38	-67.26	-13.00	-54.26
1910.00	81.25	H	-22.86	10.08	5.66	-18.44	-13.00	-5.44
3819.60	42.48	H	-55.03	12.60	8.47	-50.89	-13.00	-37.89
5729.40	42.15	H	-48.30	13.49	10.50	-45.31	-13.00	-32.31
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH Low Mode	Test Date:	May 14, 2009
Fundamental Frequency	: 1852.4MHz	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)
38.73	51.30	V	-50.87	-3.25	0.90	-55.01	-13.00	-42.01
92.08	50.45	V	-52.48	-7.75	1.29	-61.52	-13.00	-48.52
1850.00	57.95	V	-46.44	9.90	5.56	-42.10	-13.00	-29.10
3704.80	39.43	V	-58.48	12.61	8.31	-54.19	-13.00	-41.19
5557.20	---	V		13.24	10.33		-13.00	
7409.60	---	V		11.49	12.09		-13.00	
9262.00	---	V		11.92	13.51		-13.00	
11114.40	---	V		11.68	15.12		-13.00	
12966.80	---	V		13.62	16.61		-13.00	
14819.20	---	V		12.83	17.96		-13.00	
16671.60	---	V		15.87	19.15		-13.00	
18524.00	---	V		18.74	10.86		-13.00	

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: WCDMA II Mode

Operation Mode	: TX CH Low Mode	Test Date:	May 14, 2009
Fundamental Frequency	: 1852.4MHz	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)
38.73	42.94	H	-60.25	-3.25	0.90	-64.40	-13.00	-51.40
58.13	40.04	H	-70.39	-0.49	1.08	-71.96	-13.00	-58.96
1850.00	69.20	H	-34.98	9.90	5.56	-30.64	-13.00	-17.64
3704.80	39.41	H	-58.61	12.61	8.31	-54.32	-13.00	-41.32
5557.20	---	H		13.24	10.33		-13.00	
7409.60	---	H		11.49	12.09		-13.00	
9262.00	---	H		11.92	13.51		-13.00	
11114.40	---	H		11.68	15.12		-13.00	
12966.80	---	H		13.62	16.61		-13.00	
14819.20	---	H		12.83	17.96		-13.00	
16671.60	---	H		15.87	19.15		-13.00	
18524.00	---	H		18.74	10.86		-13.00	

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: WCDMA II Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May 14, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
92.08	51.48	V	-51.45	-7.75	1.29	-60.49	-13.00	-47.49
3760.00	38.17	V	-59.49	12.60	8.39	-55.27	-13.00	-42.27
5640.00	---	V		13.36	10.41		-13.00	
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

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: WCDMA II Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May 14, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	43.27	H	-59.92	-3.25	0.90	-64.07	-13.00	-51.07
96.93	41.89	H	-61.34	-7.76	1.33	-70.43	-13.00	-57.43
3760.00	37.87	H	-59.90	12.60	8.39	-55.69	-13.00	-42.69
5640.00	---	H		13.36	10.41		-13.00	
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

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

Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH High Mode	Test Date:	May 14, 2009
Fundamental Frequency	: 1907.6MHz	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)
92.08	51.03	V	-51.90	-7.75	1.29	-60.94	-13.00	-47.94
1910.00	56.76	V	-47.57	10.08	5.66	-43.15	-13.00	-30.15
3815.20	37.60	V	-59.81	12.60	8.46	-55.67	-13.00	-42.67
5722.80	---	V		13.48	10.49		-13.00	
7630.40	---	V		11.41	12.27		-13.00	
9538.00	---	V		11.95	13.73		-13.00	
11445.60	---	V		12.15	15.42		-13.00	
13353.20	---	V		13.00	16.81		-13.00	
15260.80	---	V		14.91	18.28		-13.00	
17168.40	---	V		14.53	19.50		-13.00	
19076.00	---	V		18.65	20.76		-13.00	

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: WCDMA V Mode

Operation Mode	: TX CH Low Mode	Test Date:	May 14, 2009
Fundamental Frequency	: 826.4MHz	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)
92.08	51.30	V	-51.63	-7.75	1.29	-60.67	-13.00	-47.67
823.00	70.31	V	-16.09	-7.87	3.62	-27.59	-13.00	-14.59
1652.80	---	V		9.30	5.23		-13.00	
2479.20	37.21	V	-63.75	10.07	6.54	-60.22	-13.00	-47.22
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Low Mode	Test Date:	May 14, 2009
Fundamental Frequency	: 826.4MHz	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)
38.73	42.71	H	-60.48	-3.25	0.90	-64.63	-13.00	-51.63
96.93	44.43	H	-58.80	-7.76	1.33	-67.89	-13.00	-54.89
823.00	59.48	H	-26.79	-7.87	3.62	-38.29	-13.00	-25.29
1652.80	---	H		9.30	5.23		-13.00	
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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May 14, 2009
Fundamental Frequency	: 836.6MHz	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)
92.08	50.55	V	-52.38	-7.75	1.29	-61.42	-13.00	-48.42
1673.20	---	V		9.36	5.27		-13.00	
2509.80	---	V		10.09	6.58		-13.00	
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

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: WCDMA V Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May 14, 2009
Fundamental Frequency	: 836.6MHz	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)
38.73	42.75	H	-60.44	-3.25	0.90	-64.59	-13.00	-51.59
96.93	43.69	H	-59.54	-7.76	1.33	-68.63	-13.00	-55.63
523.73	35.68	H	-56.95	-7.74	2.88	-67.56	-13.00	-54.56
1673.20	---	H		9.36	5.27		-13.00	
2509.80	---	H		10.09	6.58		-13.00	
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

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

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH High Mode	Test Date:	May 14, 2009
Fundamental Frequency	: 846.6MHz	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)
38.73	43.38	H	-59.81	-3.25	0.90	-63.96	-13.00	-50.96
96.93	44.11	H	-59.12	-7.76	1.33	-68.21	-13.00	-55.21
850.00	56.70	H	-29.49	-7.88	3.68	-41.05	-13.00	-28.05
1693.20	---	H		9.42	5.30		-13.00	
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:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1. Standard Applicable:

According to FCC §2.1055(a) (1)

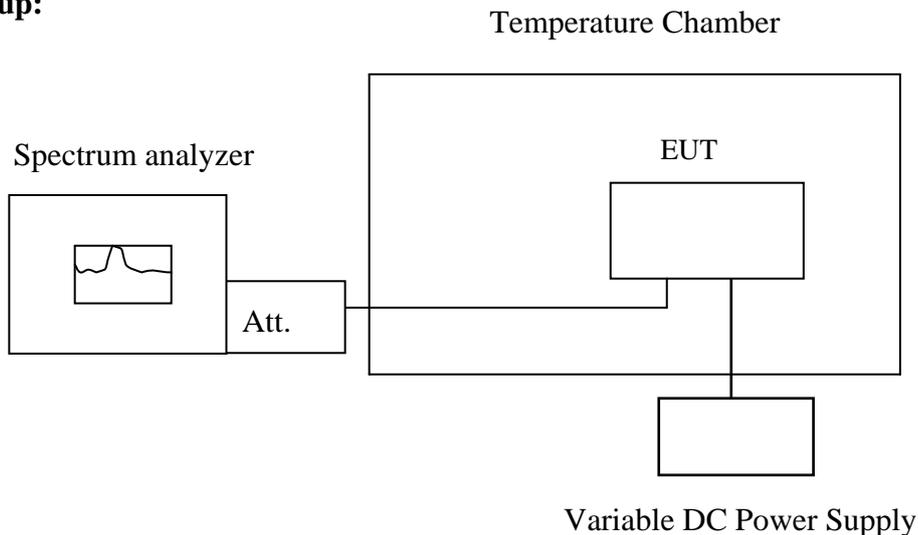
Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

According to RSS-133 §6.3, RSS-132 §4.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations

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: GSM Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.599993	6.00	2091
3.7	-20	836.599994	5.00	2091
3.7	-10	836.599996	3.00	2091
3.7	0	836.599998	1.00	2091
3.7	10	836.600003	-4.00	2091
3.7	20	836.599999	0.00	2091
3.7	30	836.599997	2.00	2091
3.7	40	836.599996	3.00	2091
3.7	50	836.599994	5.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 20°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1879.999995	2.00	4700
3.7	-20	1879.999997	0.00	4700
3.7	-10	1879.999996	1.00	4700
3.7	0	1879.999998	-1.00	4700
3.7	10	1879.999999	-2.00	4700
3.7	20	1879.999997	0.00	4700
3.7	30	1879.999996	1.00	4700
3.7	40	1879.999995	2.00	4700
3.7	50	1879.999994	3.00	4700

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Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz @ 20°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1880.000005	-3.00	4700
3.7	-20	1880.000003	-1.00	4700
3.7	-10	1880.000002	0.00	4700
3.7	0	1879.999997	5.00	4700
3.7	10	1879.999996	6.00	4700
3.7	20	1880.000002	0.00	4700
3.7	30	1879.999999	3.00	4700
3.7	40	1879.999996	6.00	4700
3.7	50	1879.999998	4.00	4700

Reference Frequency: WCDMA V Mid Channel 836.6 (ARFCN4183) MHz @ 20°C				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.599995	6.00	2090
3.7	-20	836.600003	-2.00	2090
3.7	-10	836.600002	-1.00	2090
3.7	0	836.599997	4.00	2090
3.7	10	836.599999	2.00	2090
3.7	20	836.600001	0.00	2090
3.7	30	836.599997	4.00	2090
3.7	40	836.599999	2.00	2090
3.7	50	836.599998	3.00	2090

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11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

According to RSS-133 §6.3, RSS-132 §4.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

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

11.5. Measurement Result:

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.25	25.00	836.599992	0.00	2091.00
3.70	25.00	836.599996	-4.00	2091.00
3.15	25.00	836.599999	2.00	2091.00
3.00 (End Point)	25.00	836.599988	4.00	2091.00

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.25	25	1879.999996	0.00	4700
3.70	25	1879.999998	-2.00	4700
3.15	25	1879.999994	2.00	4700
3.00 (Endpoint)	25	1879.999992	4.00	4700

Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.25	25	1879.999999	0.00	4700
3.7	25	1879.999998	1.00	4700
3.145	25	1879.999996	3.00	4700
3.0 (Endpoint)	25	1879.999995	4.00	4700

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Reference Frequency: WCDMA V Mid Channel 836.6 (ARFCN4183) MHz				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.25	25.00	836.600001	0.00	2090
3.7	25.00	836.599997	4.00	2090
3.145	25.00	836.599995	6.00	2090
3.0 (Endpoint)	25.00	836.599994	7.00	2090

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12. AC POWER LINE CONDUCTED EMISSION TEST

12.1. Standard Applicable:

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in DC power adaptor and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 110Vac/60Hz power source.

12.3. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

12.4. Measurement Equipment Used:

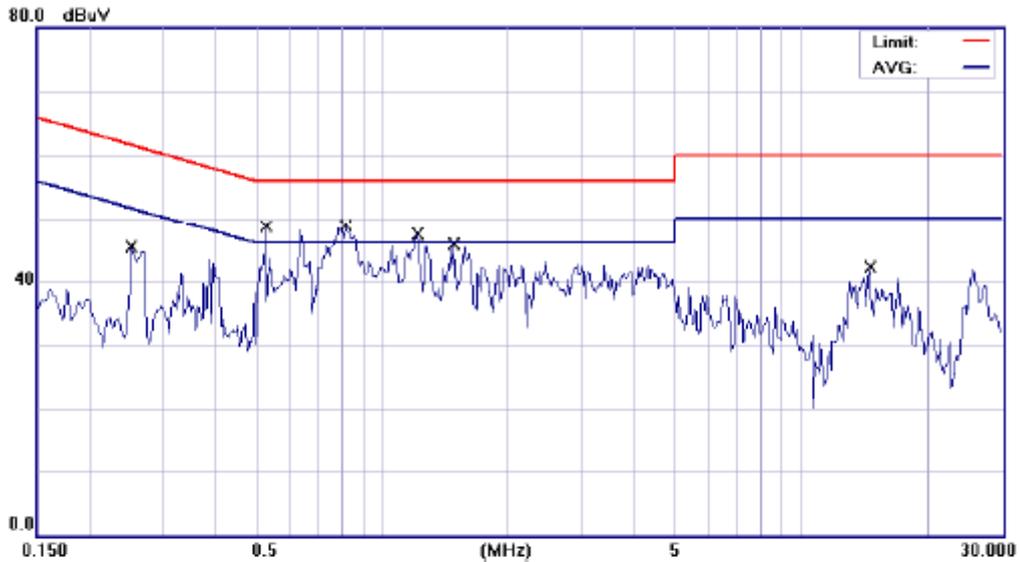
Refer to section 2.4 in this report

12.5. Measurement Result;

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked..

AC POWER LINE CONDUCTED EMISSION TEST DATA

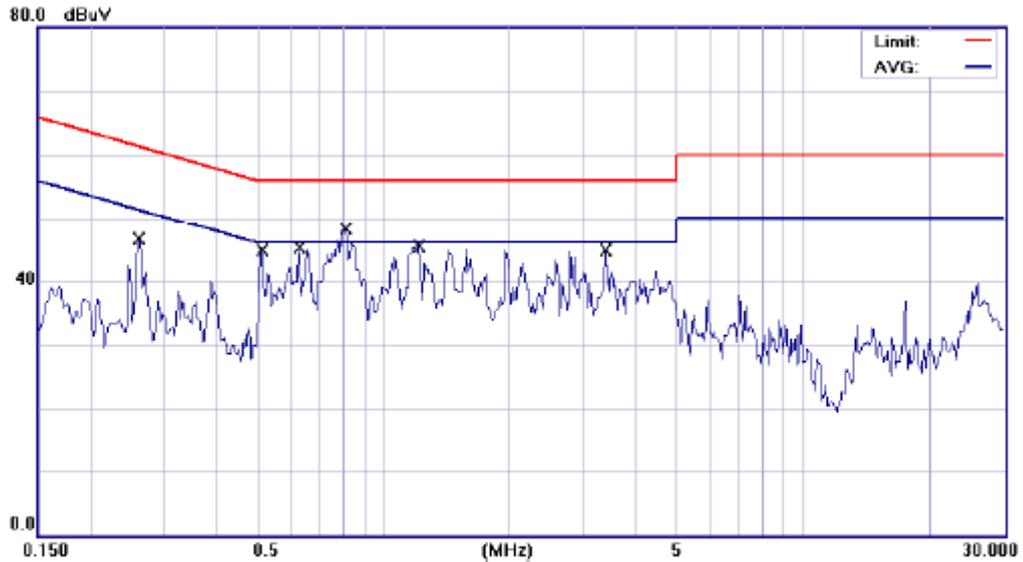
Operation Mode:	GSM 850 LINK		Test Date:	May 15, 2009	
Temperature:	24 °C	Humidity:	61 %	Test By:	Jazz



Site SGS CONDUCTED #1 Phase: **L1** Temperature: 24 °C
 Limit: CISPR22/11 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 61 %
 EUT: Pocket PC Phone Distance: Air Pressure: hpa
 MN: HERO130
 Note: GSM 850 LINK MODE

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2516	35.60	0.11	35.71	61.70	-25.99	QP	
2		0.2516	20.20	0.11	20.31	51.70	-31.39	AVG	
3		0.5273	33.50	0.07	33.57	56.00	-22.43	QP	
4		0.5273	20.50	0.07	20.57	46.00	-25.43	AVG	
5		0.8203	44.80	0.08	44.88	56.00	-11.12	QP	
6	*	0.8203	35.50	0.08	35.58	46.00	-10.42	AVG	
7		1.2109	37.40	0.10	37.50	56.00	-18.50	QP	
8		1.2109	23.00	0.10	23.10	46.00	-22.90	AVG	
9		1.4844	35.40	0.11	35.51	56.00	-20.49	QP	
10		1.4844	20.90	0.11	21.01	46.00	-24.99	AVG	
11		14.5508	33.00	0.40	33.40	60.00	-26.60	QP	
12		14.5508	21.20	0.40	21.60	50.00	-28.40	AVG	

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Site: SGS CONDUCTED #1
 Limit: CISPR22/11 Class B Conduction(QP)
 EUT: Pocket PC Phone
 MN: HERO130
 Note: GSM 850 LINK MODE

Phase: N
 Power: AC 120V/60Hz
 Distance:

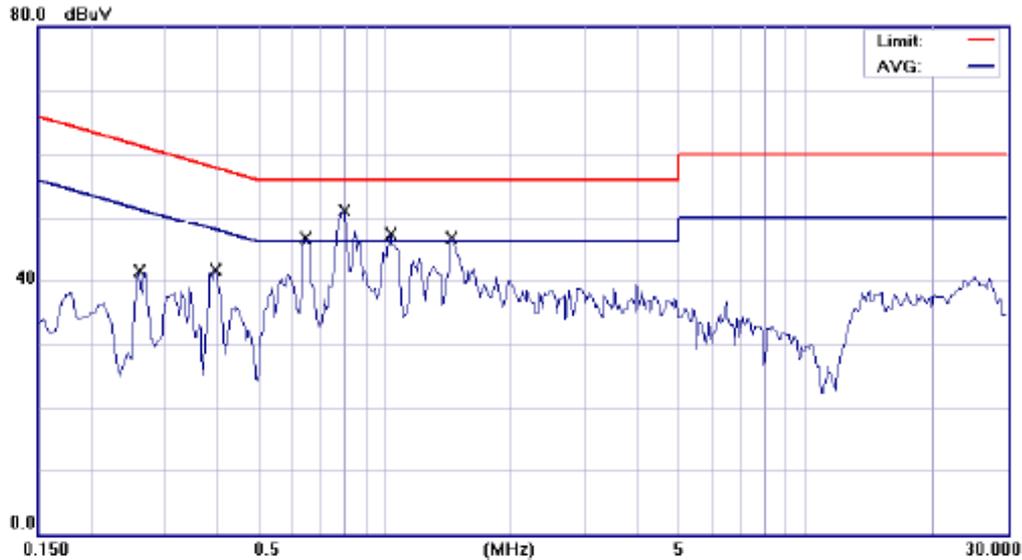
Temperature: 24 °C
 Humidity: 61 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2594	37.90	0.13	38.03	61.45	-23.42	QP	
2		0.2594	19.80	0.13	19.93	51.45	-31.52	AVG	
3		0.5117	33.50	0.10	33.60	56.00	-22.40	QP	
4		0.5117	16.50	0.10	16.60	46.00	-29.40	AVG	
5		0.6289	35.00	0.11	35.11	56.00	-20.89	QP	
6		0.6289	19.30	0.11	19.41	46.00	-26.59	AVG	
7	*	0.8125	41.50	0.11	41.61	56.00	-14.39	QP	
8		0.8125	26.80	0.11	26.91	46.00	-19.09	AVG	
9		1.2148	36.50	0.13	36.63	56.00	-19.37	QP	
10		1.2148	23.10	0.13	23.23	46.00	-22.77	AVG	
11		3.3828	31.50	0.16	31.66	56.00	-24.34	QP	
12		3.3828	20.50	0.16	20.66	46.00	-25.34	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 LINK		Test Date:	May 15, 2009	
Temperature:	24 °C	Humidity:	61 %	Test By:	Jazz



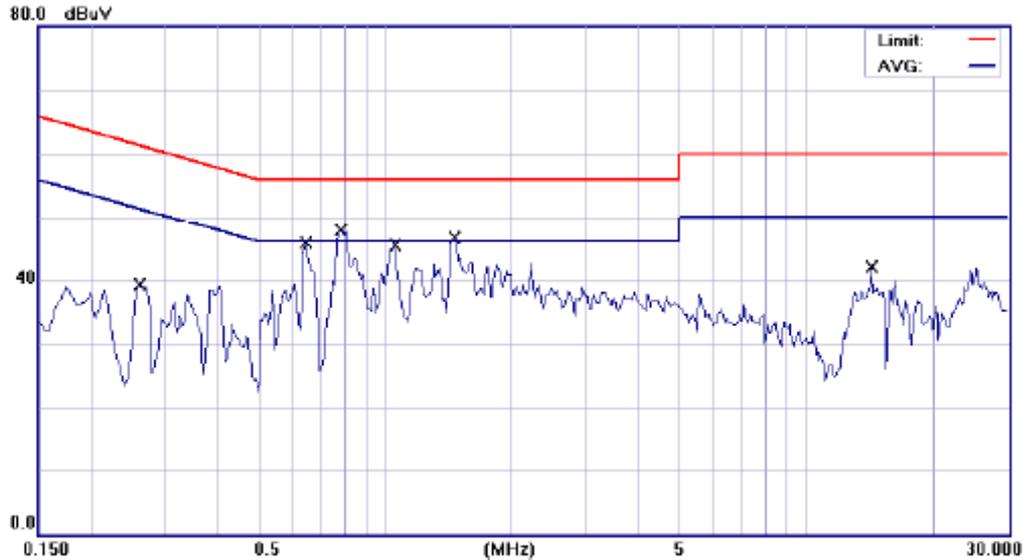
Site: SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: Pocket PC Phone
MN: HERO130
Note: GSM 1900 LINK MODE

Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 24 °C
Humidity: 61 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2600	38.40	0.11	38.51	61.43	-22.92	QP	
2		0.2600	28.60	0.11	28.71	51.43	-22.72	AVG	
3		0.3950	39.00	0.08	39.08	57.96	-18.88	QP	
4		0.3950	27.20	0.08	27.28	47.96	-20.68	AVG	
5		0.6500	44.30	0.08	44.38	56.00	-11.62	QP	
6		0.6500	33.70	0.08	33.78	46.00	-12.22	AVG	
7	*	0.8000	48.40	0.08	48.48	56.00	-7.52	QP	
8		0.8000	37.70	0.08	37.78	46.00	-8.22	AVG	
9		1.0300	43.90	0.09	43.99	56.00	-12.01	QP	
10		1.0300	32.10	0.09	32.19	46.00	-13.81	AVG	
11		1.4400	38.40	0.11	38.51	56.00	-17.49	QP	
12		1.4400	26.10	0.11	26.21	46.00	-19.79	AVG	

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Site: SGS CONDUCTED #1
 Limit: CISPR22/11 Class B Conduction(QP)
 EUT: Pocket PC Phone
 MN: HERO130
 Note: GSM 1900 LINK MODE

Phase: N
 Power: AC 120V/60Hz
 Distance:

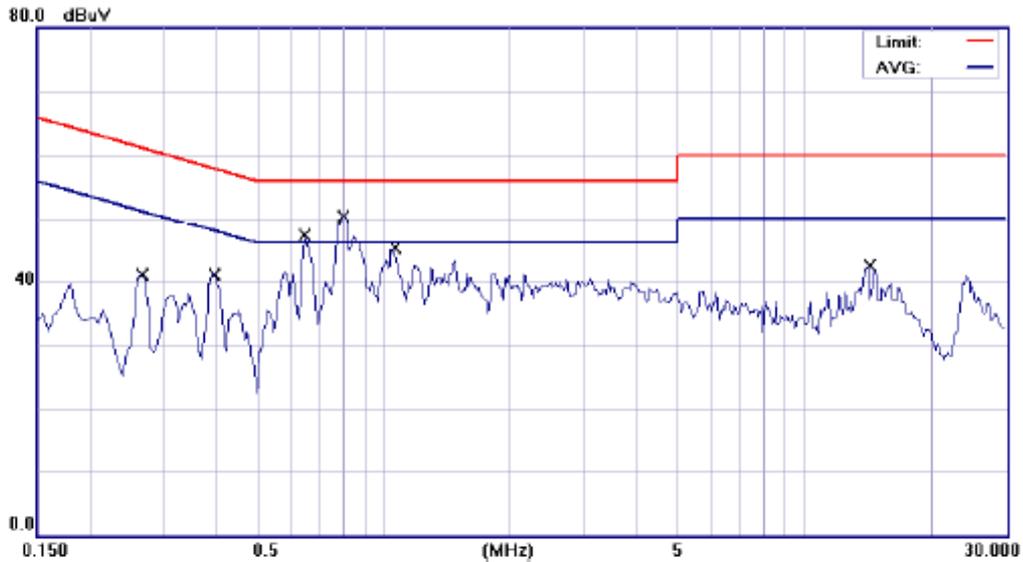
Temperature: 24 °C
 Humidity: 61 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2600	37.00	0.13	37.13	61.43	-24.30	QP	
2		0.2600	26.00	0.13	26.13	51.43	-25.30	AVG	
3		0.6500	41.20	0.11	41.31	56.00	-14.69	QP	
4		0.6500	33.10	0.11	33.21	46.00	-12.79	AVG	
5	*	0.7800	44.50	0.11	44.61	56.00	-11.39	QP	
6		0.7800	32.40	0.11	32.51	46.00	-13.49	AVG	
7		1.0500	42.10	0.12	42.22	56.00	-13.78	QP	
8		1.0500	32.00	0.12	32.12	46.00	-13.88	AVG	
9		1.4600	40.50	0.13	40.63	56.00	-15.37	QP	
10		1.4600	25.20	0.13	25.33	46.00	-20.67	AVG	
11		14.3200	33.10	0.42	33.52	60.00	-26.48	QP	
12		14.3200	23.40	0.42	23.82	50.00	-26.18	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMA Band II LINK		Test Date:	May 15, 2009	
Temperature:	24 °C	Humidity:	61 %	Test By:	Jazz



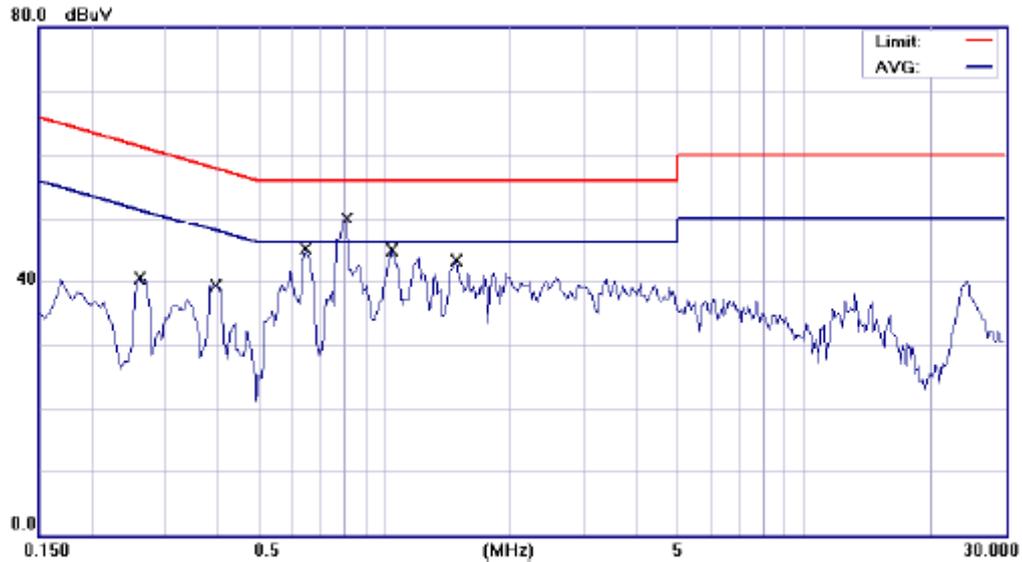
Site: SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: Pocket PC Phone
MN: HERO130
Note: WCDMA B2 LINK MODE

Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 24 °C
Humidity: 61 %
Air Pressure: hpa

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2650	38.40	0.11	38.51	61.27	-22.76	QP	
2	0.2650	28.40	0.11	28.51	51.27	-22.76	AVG	
3	0.3950	38.10	0.08	38.18	57.96	-19.78	QP	
4	0.3950	25.50	0.08	25.58	47.96	-22.38	AVG	
5	0.6500	43.00	0.08	43.08	56.00	-12.92	QP	
6	0.6500	30.50	0.08	30.58	46.00	-15.42	AVG	
7 *	0.8000	47.20	0.08	47.28	56.00	-8.72	QP	
8	0.8000	35.80	0.08	35.88	46.00	-10.12	AVG	
9	1.0600	42.20	0.09	42.29	56.00	-13.71	QP	
10	1.0600	30.10	0.09	30.19	46.00	-15.81	AVG	
11	14.2400	32.70	0.40	33.10	60.00	-26.90	QP	
12	14.2400	20.50	0.40	20.90	50.00	-29.10	AVG	

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Site: SGS CONDUCTED #1
 Limit: CISPR22/11 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: HERO130
 Note: WCDMA B2 LINK MODE

Phase: N
 Power: AC 120V/60Hz
 Distance:

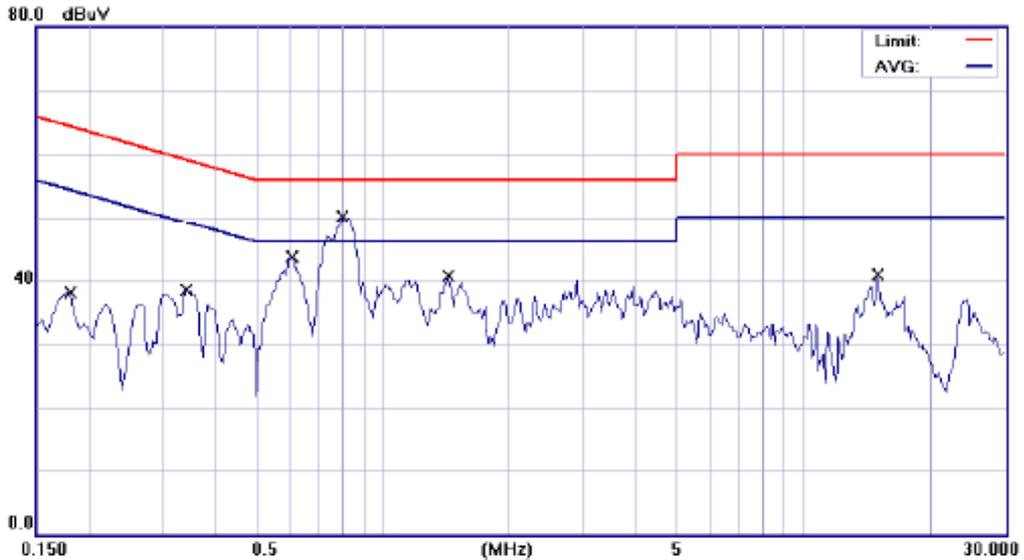
Temperature: 24 °C
 Humidity: 61 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2600	37.10	0.13	37.23	61.43	-24.20	QP	
2		0.2600	27.30	0.13	27.43	51.43	-24.00	AVG	
3		0.3950	35.40	0.11	35.51	57.96	-22.45	QP	
4		0.3950	23.30	0.11	23.41	47.96	-24.55	AVG	
5		0.6500	41.00	0.11	41.11	56.00	-14.89	QP	
6		0.6500	28.60	0.11	28.71	46.00	-17.29	AVG	
7	*	0.8100	45.30	0.11	45.41	56.00	-10.59	QP	
8		0.8100	32.40	0.11	32.51	46.00	-13.49	AVG	
9		1.0400	40.00	0.12	40.12	56.00	-15.88	QP	
10		1.0400	26.90	0.12	27.02	46.00	-18.98	AVG	
11		1.4800	38.30	0.13	38.43	56.00	-17.57	QP	
12		1.4800	27.50	0.13	27.63	46.00	-18.37	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMA Band V LINK		Test Date:	May 15, 2009	
Temperature:	24 °C	Humidity:	61 %	Test By:	Jazz

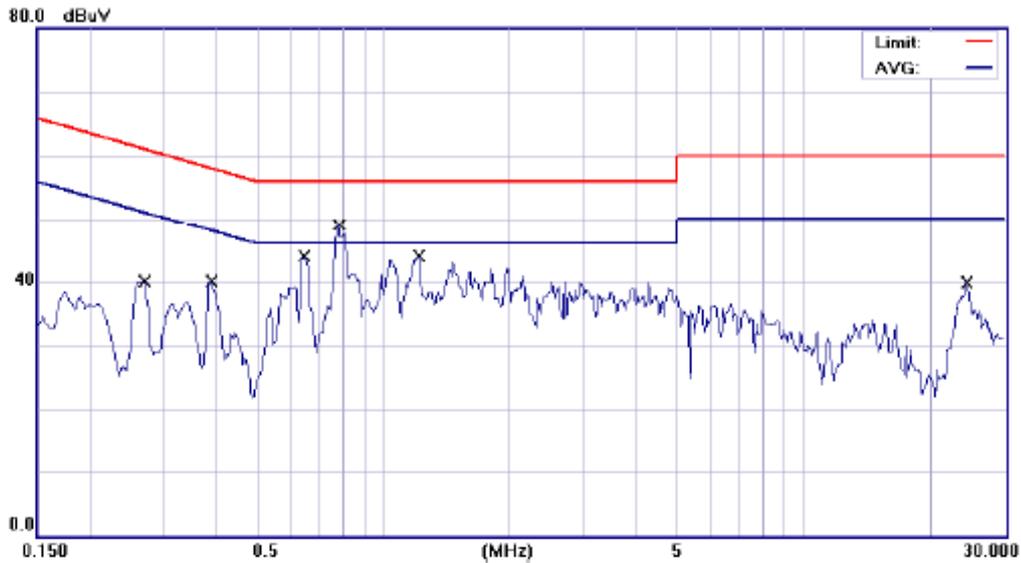


Site: SGS CONDUCTED #1
 Limit: CISPR22/11 Class B Conduction(QP)
 EUT: Pocket PC Phone
 MN: HERO130
 Note: WCDMA B5 LINK MODE

Phase: L1
 Power: AC 120V/60Hz
 Distance:
 Temperature: 24 °C
 Humidity: 61 %
 Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1800	34.20	0.14	34.34	64.49	-30.15	QP	
2		0.1800	27.30	0.14	27.44	54.49	-27.05	AVG	
3		0.3400	35.10	0.09	35.19	59.20	-24.01	QP	
4		0.3400	23.70	0.09	23.79	49.20	-25.41	AVG	
5		0.6100	39.80	0.07	39.87	56.00	-16.13	QP	
6		0.6100	27.50	0.07	27.57	46.00	-18.43	AVG	
7	*	0.8000	44.50	0.08	44.58	56.00	-11.42	QP	
8		0.8000	32.70	0.08	32.78	46.00	-13.22	AVG	
9		1.4300	35.40	0.11	35.51	56.00	-20.49	QP	
10		1.4300	23.70	0.11	23.81	46.00	-22.19	AVG	
11		15.0000	31.70	0.40	32.10	60.00	-27.90	QP	
12		15.0000	18.30	0.40	18.70	50.00	-31.30	AVG	

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Site: SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: Pocket PC Phone
M/N: HERO130
Note: WCDMA B5 LINK MODE

Phase: N
Power: AC 120V/60Hz
Distance:

Temperature: 24 °C
Humidity: 61 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2700	31.00	0.13	31.13	61.12	-29.99	QP	
2		0.2700	18.80	0.13	18.93	51.12	-32.19	AVG	
3		0.3900	30.00	0.11	30.11	58.06	-27.95	QP	
4		0.3900	20.50	0.11	20.61	48.06	-27.45	AVG	
5		0.3900	19.50	0.11	19.61	48.06	-28.45	AVG	
6		0.6500	34.40	0.11	34.51	56.00	-21.49	QP	
7		0.6500	20.70	0.11	20.81	46.00	-25.19	AVG	
8	*	0.7800	41.30	0.11	41.41	56.00	-14.59	QP	
9		0.7800	29.10	0.11	29.21	46.00	-16.79	AVG	
10		1.2100	34.60	0.13	34.73	56.00	-21.27	QP	
11		1.2100	24.50	0.13	24.63	46.00	-21.37	AVG	
12		24.5000	30.80	0.30	31.10	60.00	-28.90	QP	
13		24.5000	20.80	0.30	21.10	50.00	-28.90	AVG	

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13. SPURIOUS RADIATED EMISSION TEST (RX)

13.1. 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 $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
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.

13.2. 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.

13.3. 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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13.4. Test SET-UP (Block Diagram of Configuration)

Refer to section 6.2 in this report

13.5. Measurement Equipment Used:

Refer to section 2.4 in this report

13.6. 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	

13.7. Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM 850 CH Low Mode	Test Date	May 14, 2009
Fundamental Frequency	824.2 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)
75.59	V	Peak	49.09	-17.13	31.96	40.00	-8.04
555.74	V	Peak	32.11	-7.47	24.64	46.00	-21.36
104.69	H	Peak	43.14	-16.63	26.51	43.50	-16.99
609.09	H	Peak	32.28	-5.83	26.45	46.00	-19.55

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM 850 CH Mid Mode	Test Date	May 14, 2009
Fundamental Frequency	836.6 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)
75.59	V	Peak	49.04	-17.13	31.91	40.00	-8.09
153.19	V	Peak	32.54	-13.00	19.54	43.50	-23.96
72.68	H	Peak	40.81	-16.62	24.19	40.00	-15.81
669.23	H	Peak	32.13	-5.03	27.10	46.00	-18.90

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM 850 CH High Mode	Test Date	May 14, 2009
Fundamental Frequency	848.8 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)
75.59	V	Peak	49.24	-17.13	32.11	40.00	-7.89
858.38	V	Peak	32.58	-1.86	30.72	46.00	-15.28
92.08	H	Peak	42.05	-17.38	24.67	43.50	-18.83
643.04	H	Peak	32.47	-5.14	27.33	46.00	-18.67

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM 1900 CH Low Mode	Test Date	May 14, 2009
Fundamental Frequency	1850.2 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)
56.19	V	Peak	41.69	-14.63	27.06	40.00	-12.94
153.19	V	Peak	32.86	-13.00	19.86	43.50	-23.64
72.68	H	Peak	41.37	-16.62	24.75	40.00	-15.25
104.69	H	Peak	43.53	-16.63	26.90	43.50	-16.60

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM 1900 CH Mid Mode	Test Date	May 14, 2009
Fundamental Frequency	1880 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)
75.57	V	Peak	49.91	-17.13	32.78	40.00	-7.22
153.19	V	Peak	32.83	-13.00	19.83	43.50	-23.67
72.68	H	Peak	41.27	-16.62	24.65	40.00	-15.35
897.18	H	Peak	31.56	-1.11	30.45	46.00	-15.55

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM 1900 CH High Mode	Test Date	May 14, 2009
Fundamental Frequency	1909.8 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)
75.59	V	Peak	49.25	-17.13	32.12	40.00	-7.88
851.59	V	Peak	32.50	-1.96	30.54	46.00	-15.46
104.69	H	Peak	44.06	-16.63	27.43	43.50	-16.07

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	WCDMA Band II CH Low Mode	Test Date	May 14, 2009
Fundamental Frequency	1852.4 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)
138.64	V	Peak	33.74	-15.09	18.65	43.50	-24.85
90.14	H	Peak	42.48	-18.58	23.90	43.50	-19.60

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	WCDMA Band II CH Mid Mode	Test Date	May 14, 2009
Fundamental Frequency	1880 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)
75.59	V	Peak	47.01	-18.09	28.92	40.00	-11.08
96.93	H	Peak	43.02	-18.28	24.74	43.50	-18.76

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	WCDMA Band II CH High Mode	Test Date	May 14, 2009
Fundamental Frequency	1907.6 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)
58.13	V	Peak	40.48	-15.50	24.98	40.00	-15.02
96.93	H	Peak	41.77	-18.28	23.49	43.50	-20.01

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	WCDMA Band V CH Low Mode	Test Date	May 14, 2009
Fundamental Frequency	826.40 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)
75.59	V	Peak	46.65	-18.09	28.56	40.00	-11.44
96.93	H	Peak	43.65	-18.28	25.37	43.50	-18.13
635.28	H	Peak	33.55	-8.09	25.46	46.00	-20.54

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	WCDMA Band V CH Mid Mode	Test Date	May 14, 2009
Fundamental Frequency	836.60 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)
75.59	V	Peak	46.57	-18.09	28.48	40.00	-11.52
523.73	V	Peak	34.44	-10.72	23.72	46.00	-22.28
601.33	V	Peak	32.73	-8.75	23.98	46.00	-22.02
96.93	H	Peak	44.29	-18.28	26.01	43.50	-17.49
259.89	H	Peak	34.92	-15.40	19.52	46.00	-26.48

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/AV 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.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	WCDMA Band V CH High Mode	Test Date	May 14, 2009
Fundamental Frequency	846.60 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)
92.08	V	Peak	51.17	-18.50	32.67	43.50	-10.83
649.83	V	Peak	32.88	-7.81	25.07	46.00	-20.93
90.14	H	Peak	43.97	-18.58	25.39	43.50	-18.11

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/AV 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.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 850 CH Low Mode	Test Date	May 14, 2009
Fundamental Frequency	824.2 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant. Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1648.4	V	--	--			--	74.00	54.00	
2472.6	V	--	--			--	74.00	54.00	
3296.8	V	--	--			--	74.00	54.00	
4121.0	V	--	--			--	74.00	54.00	
4945.2	V	--	--			--	74.00	54.00	
1648.4	H	--	--			--	74.00	54.00	
2472.6	H	--	--			--	74.00	54.00	
3296.8	H	--	--			--	74.00	54.00	
4121.0	H	--	--			--	74.00	54.00	
4945.2	H	--	--			--	74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 850 CH Mid Mode	Test Date	May 14, 2009
Fundamental Frequency	836.6 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1673.2	V	--	--				74.00	54.00	
2509.8	V	--	--				74.00	54.00	
3346.4	V	--	--				74.00	54.00	
4183.0	V	--	--				74.00	54.00	
5019.6	V	--	--				74.00	54.00	
1673.2	H	--	--				74.00	54.00	
2509.8	H	--	--				74.00	54.00	
3346.4	H	--	--				74.00	54.00	
4183.0	H	--	--				74.00	54.00	
5019.6	H	--	--				74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 850 CH High Mode	Test Date	May 14, 2009
Fundamental Frequency	848.8 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1697.6	V	--	--				74.00	54.00	
2546.4	V	--	--				74.00	54.00	
3395.2	V	--	--				74.00	54.00	
4244.0	V	--	--				74.00	54.00	
5092.8	V	--	--				74.00	54.00	
1697.6	H	--	--				74.00	54.00	
2546.4	H	--	--				74.00	54.00	
3395.2	H	--	--				74.00	54.00	
4244.0	H	--	--				74.00	54.00	
5092.8	H	--	--				74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 1900 CH Low Mode	Test Date	May 14, 2009
Fundamental Frequency	1850.2 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3700.4	V	--	--			--	74.00	54.00	
5550.6	V	--	--			--	74.00	54.00	
7400.8	V	--	--			--	74.00	54.00	
9251.0	V	--	--			--	74.00	54.00	
11101.2	V	--	--			--	74.00	54.00	
3700.4	H	--	--			--	74.00	54.00	
5550.6	H	--	--			--	74.00	54.00	
7400.8	H	--	--			--	74.00	54.00	
9251.0	H	--	--			--	74.00	54.00	
11101.2	H	--	--			--	74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 1900 CH Mid Mode	Test Date	May 14, 2009
Fundamental Frequency	1880 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3760.0	V	--	--			--	74.00	54.00	
5640.0	V	--	--			--	74.00	54.00	
7520.0	V	--	--			--	74.00	54.00	
9400.0	V	--	--			--	74.00	54.00	
11280.0	V	--	--			--	74.00	54.00	
3760.0	H	--	--			--	74.00	54.00	
5640.0	H	--	--			--	74.00	54.00	
7520.0	H	--	--			--	74.00	54.00	
9400.0	H	--	--			--	74.00	54.00	
11280.0	H	--	--			--	74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 1900 CH High Mode	Test Date	May 14, 2009
Fundamental Frequency	1909.8 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant. Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3819.6	V	--	--			--	74.00	54.00	
5729.4	V	--	--			--	74.00	54.00	
7639.2	V	--	--			--	74.00	54.00	
9549.0	V	--	--			--	74.00	54.00	
11458.8	V	--	--			--	74.00	54.00	
3819.6	H	--	--			--	74.00	54.00	
5729.4	H	--	--			--	74.00	54.00	
7639.2	H	--	--			--	74.00	54.00	
9549.0	H	--	--			--	74.00	54.00	
11458.8	H	--	--			--	74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	WCDMA Band II CH Low Mode	Test Date	May 14, 2009
Fundamental Frequency	1852.4 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3704.8	V	--	--			--	74.00	54.00	
5557.2	V	--	--			--	74.00	54.00	
7409.6	V	--	--			--	74.00	54.00	
9262.0	V	--	--			--	74.00	54.00	
11114.4	V	--	--			--	74.00	54.00	
3704.8	H	--	--			--	74.00	54.00	
5557.2	H	--	--			--	74.00	54.00	
7409.6	H	--	--			--	74.00	54.00	
9262.0	H	--	--			--	74.00	54.00	
11114.4	H	--	--			--	74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	WCDMA Band II CH Mid Mode	Test Date	May 14, 2009
Fundamental Frequency	1880 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Factor (dB)	Actual	Actual	Peak	AV	Margin (dB)
		Reading (dBuV)	Reading (dBuV)		Peak FS (dBuV/m)	AV FS (dBuV/m)	Limit at 3m (dBuV/m)	Limit at 3m (dBuV/m)	
3760.0	V	--	--		--	--	74.00	54.00	
5640.0	V	--	--		--	--	74.00	54.00	
7520.0	V	--	--		--	--	74.00	54.00	
9400.0	V	--	--		--	--	74.00	54.00	
11280.0	V	--	--		--	--	74.00	54.00	
3760.0	H	--	--		--	--	74.00	54.00	
5640.0	H	--	--		--	--	74.00	54.00	
7520.0	H	--	--		--	--	74.00	54.00	
9400.0	H	--	--		--	--	74.00	54.00	
11280.0	H	--	--		--	--	74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	WCDMA Band II CH High Mode	Test Date	May 14, 2009
Fundamental Frequency	1907.6 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3815.2	V	--	--			--	74.00	54.00	
5722.8	V	--	--			--	74.00	54.00	
7630.4	V	--	--			--	74.00	54.00	
9538.0	V	--	--			--	74.00	54.00	
11445.6	V	--	--			--	74.00	54.00	
3815.2	H	--	--			--	74.00	54.00	
5722.8	H	--	--			--	74.00	54.00	
7630.4	H	--	--			--	74.00	54.00	
9538.0	H	--	--			--	74.00	54.00	
11445.6	H	--	--			--	74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	WCDMA Band V CH Low Mode	Test Date	May 14, 2009
Fundamental Frequency	826.40 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant. Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1652.8	V	--	--			--	74.00	54.00	
2479.2	V	--	--			--	74.00	54.00	
3305.6	V	--	--			--	74.00	54.00	
4132.0	V	--	--			--	74.00	54.00	
4958.4	V	--	--			--	74.00	54.00	
1652.8	H	--	--			--	74.00	54.00	
2479.2	H	--	--			--	74.00	54.00	
3305.6	H	--	--			--	74.00	54.00	
4132.0	H	--	--			--	74.00	54.00	
4958.4	H	--	--			--	74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	WCDMA Band V CH Mid Mode	Test Date	May 14, 2009
Fundamental Frequency	836.60 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1673.2	V	--	--			--	74.00	54.00	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	--	--			--	74.00	54.00	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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	WCDMA Band V CH High Mode	Test Date	May 14, 2009
Fundamental Frequency	846.60 MHz	Test By	Jazz
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1693.2	V	--	--			--	74.00	54.00	
2539.8	V	--	--			--	74.00	54.00	
3386.4	V	--	--			--	74.00	54.00	
4233.0	V	--	--			--	74.00	54.00	
5079.6	V	--	--			--	74.00	54.00	
1693.2	H	--	--			--	74.00	54.00	
2539.8	H	--	--			--	74.00	54.00	
3386.4	H	--	--			--	74.00	54.00	
4233.0	H	--	--			--	74.00	54.00	
5079.6	H	--	--			--	74.00	54.00	

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- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.