

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT****INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 22 SUBPART H and PART 24 SUBPART E**

OF

**Product Name:** WCDMA /GPRS Dual Band Mobile Phone

**Brand Name:** ZTE

**Model Name:** F188

**FCC ID:** Q78-ZTEF188

**Model Difference:** N/A

**Report No:** EH/2008/60016

**Issue Date:** Jul. 16, 2008

**FCC Rule Part:** 2 , 22H & 24E

**Prepared for:** ZTE CORPORATION  
ZTE Plaza, Keji Road South, Hi-Tech Industrial  
Park, Nanshan District, Shenzhen, Guangdong,  
518057, P.R.China

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

**Applicant:** ZTE CORPORATION  
 ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

**Product Name:** WCDMA /GPRS Dual Band Mobile Phone

**FCC ID Number:** Q78-ZTEF188

**Brand Name:** ZTE

**Model No:** F188

**Model Difference:** N/A

**File Number:** EH/2008/60016

**Date of test:** Jun. 20, 2008 ~ Jul. 11, 2008

**Date of EUT Received:** Jun. 20, 2008

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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-B-2002 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H and FCC PART 24 subpart E.

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

*Test By:*



*Date*

Jul. 16, 2008

*Jim Chang / Supervisor*

*Prepared By:*



*Date*

Jul. 16, 2008

*Alex Hsieh / Sr. Engineer*

*Approved By:*



*Date*

Jul. 16, 2008

*Vincent Su/Manager*

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### Version

Version No.	Date
00	Jul. 16, 2008

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## 1. GENERAL INFORMATION

### General:

Product Name:	WCDMA /GPRS Dual Band Mobile Phone	
Brand Name:	ZTE	
Model Name:	F188	
Model Difference:	N/A	
Simple Hands-Free (SHF):	1 provide, model: TMD-600U	
Data cable (USB):	1 provide, model: N/A	
Power Supply:	4 Vdc re-chargeable battery or 5Vdc from AC/DC power Adaptor	
	Battery:	Model: Li3709T42P3h453756, Supplier: ZTE
	Adapter:	Model: STC-A22O50U8-C, Supplier: ZTE

### GSM and WCDMA:

Cellular Phone Standards:	GSM/GPRS/EGPRS 850, 1900 and WCDMA Band II and V	
Frequency Range and Power:	GSM 850: 824MHz –849MHz	33 dBm
	GSM 1900: 1850MHz –1910MHz	30 dBm
	WCDMA/HSDPA Band II: 1850MHz– 1910MHz	24 dBm
	WCDMA/HSDPA Band V: 824 MHz– 849MHz	24 dBm
Hardware Version:	P622C1-2.0.0	
Software Version:	GEN_ZX_P622C1V1.0.0B06	
IMEI:	004400152020000	

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Bluetooth

Frequency Range:	2402 – 2480MHz
Channel number:	79 channels
Transmit Power:	0.27 dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum (GFSK) (FHSS)
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	Chip Antenna, -7 dBi

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

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

This submittal(s) (test report) is intended for FCC ID: **Q78-ZTEF188** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

### 1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures documented on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

### 1.3. Test Facility

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

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

### 1.4. Special Accessories

Not available for this EUT intended for grant.

### 1.5. Equipment Modifications

Not available for this EUT intended for grant.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

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

### 2.2. EUT Exercise

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

### 2.3. Test Procedure

#### 2.3.1 Conducted 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 Radiated Emissions

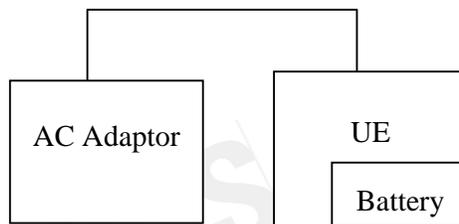
The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to 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 and Subclause 8.3.1.2 of ANSI C63.4-2003.

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## 2.4. Configuration of Tested System

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



Remote Side (on the corner)

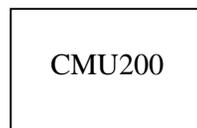


Table 2-2 Equipment Used in Tested System

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

**Note:** All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

**Grounding:** Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a) §24.232(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a) §24.232(a)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1)(b)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1)(2)	Frequency Stability vs. Voltage	Compliant
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

### 4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

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

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## 5. RF POWER OUTPUT MEASUREMENT

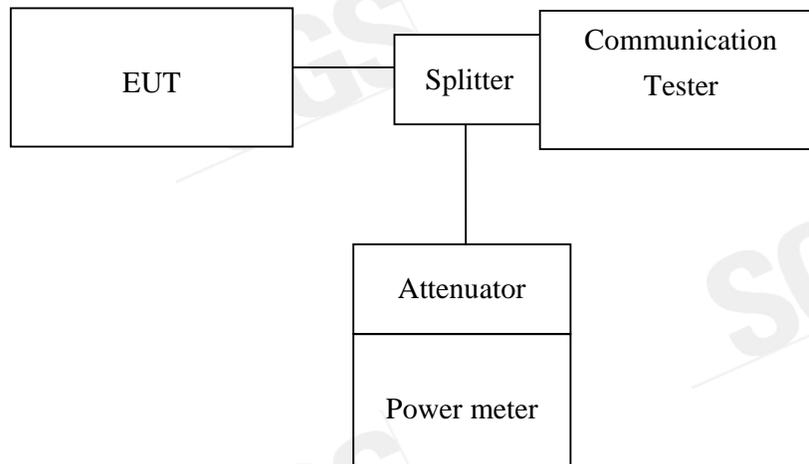
### 5.1. Standard Applicable

According to FCC §2.1046.

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

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

### 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.

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**5.4. Measurement Equipment Used:**

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2008	01/04/2009
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	07/05/2007	07/04/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008

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### 5.5. Measurement Result

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
GSM 850	824.20	128	28.55	0.00	32.61
	836.60	190	28.51	0.00	32.33
	848.80	251	28.10	0.00	32.13

\* Offset 0.5dB

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	29.60	0.00	29.27
	1880.00	661	29.70	0.00	29.50
	1909.80	810	29.60	0.00	29.53

\*Offset 0.58dB

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 850	824.20	128	25.93	0.00	26.82
	836.60	190	26.04	0.00	26.91
	848.80	251	26.12	0.00	26.47

\* Offset 0.5dB

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 1900	1850.20	512	24.01	0.00	25.73
	1880.00	661	24.25	0.00	25.64
	1909.80	810	24.06	0.00	25.48

\* Offset 0.5dB

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EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
WCDMA V	826.40	4132	22.86	0.00	22.15
	836.00	4180	22.76	0.00	22.00
	846.60	4233	22.93	0.00	21.65

\* Offset 0.5dB

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
WCDMA II	1852.40	9262	22.08	0.00	22.27
	1880.00	9400	22.38	0.00	22.41
	1907.60	9538	22.71	0.00	21.58

\* Offset 0.5dB

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
HSDPA V	824.20	128	25.93	0.00	21.96
	836.60	190	26.04	0.00	22.01
	848.80	251	26.12	0.00	21.43

\* Offset 0.5dB

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
HSDPA II	1850.20	512	24.01	0.00	21.86
	1880.00	661	24.25	0.00	21.73
	1909.80	810	24.06	0.00	21.45

\* Offset 0.5dB

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## 6. ERP, EIRP MEASUREMENT

### 6.1. Standard Applicable

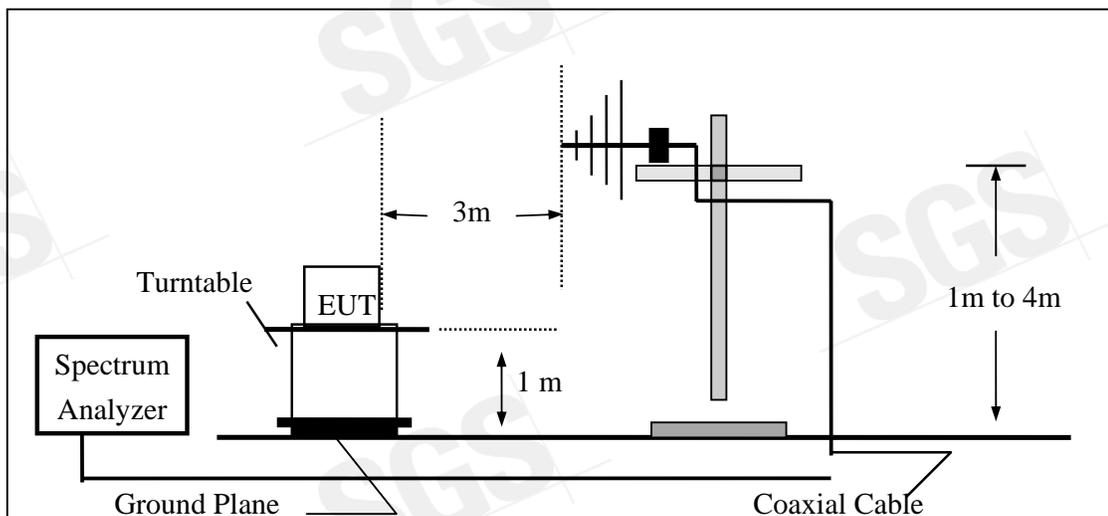
According to FCC §2.1046

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

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

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

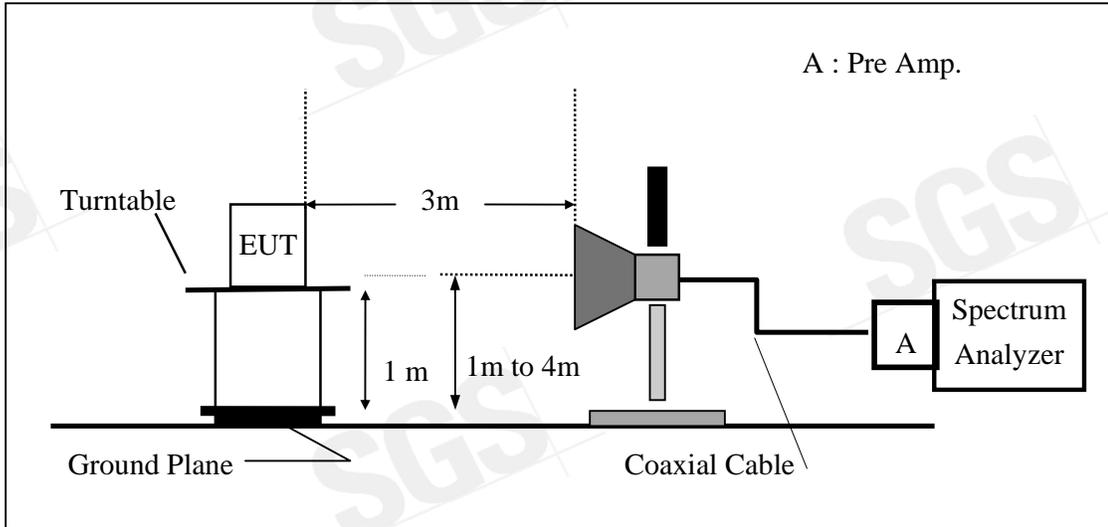
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



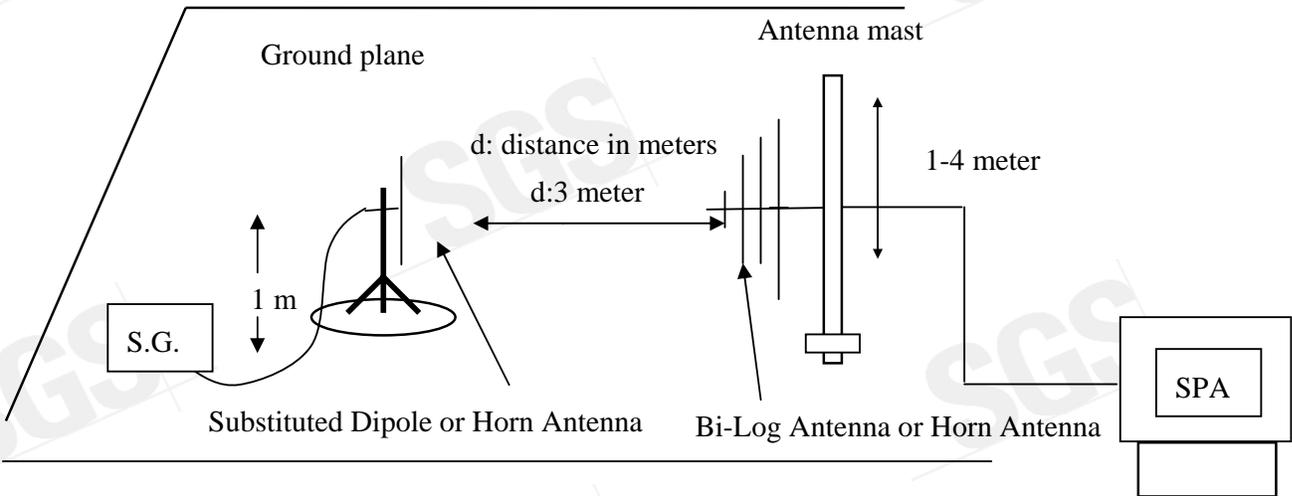
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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### 6.3. Measurement Procedure

The EUT was placed on a non-conductive, 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.

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

ERP in frequency band 824.2 –846.60.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1907.60MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

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

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

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**6.4. Measurement Equipment Used:**

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2008	01/04/2009
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2008	06/10/2009
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2008	06/10/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

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### 6.5. Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBUV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	112.17	24.85	-7.87	3.64	13.33	38.45
				H	124.85	37.19	-7.87	3.64	25.68	38.45
			E1	V	125.52	38.20	-7.87	3.64	26.68	38.45
				H	113.80	26.14	-7.87	3.64	14.63	38.45
			E2	V	116.52	29.20	-7.87	3.64	17.68	38.45
				H	125.97	38.31	-7.87	3.64	26.80	38.45
	836.60	190	H	V	112.81	25.78	-7.88	3.70	14.21	38.45
				H	126.55	39.21	-7.88	3.70	27.64	38.45
			E1	V	124.18	37.15	-7.88	3.70	25.58	38.45
				H	124.13	36.79	-7.88	3.70	25.22	38.45
			E2	V	114.83	27.80	-7.88	3.70	16.23	38.45
				H	127.35	40.01	-7.88	3.70	28.44	38.45
	848.80	251	H	V	114.39	27.65	-7.88	3.75	16.02	38.45
				H	127.35	40.33	-7.88	3.75	28.70	38.45
			E1	V	127.59	40.85	-7.88	3.75	29.22	38.45
				H	116.43	29.41	-7.88	3.75	17.78	38.45
			E2	V	117.39	30.65	-7.88	3.75	19.02	38.45
				H	128.73	41.71	-7.88	3.75	30.08	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
Below 1GHz was RBW=300 KHz, VBW=1000KHz,  
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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### 6.6. 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	121.02	14.06	9.90	5.41	18.55	33.00
				H	129.80	22.91	9.90	5.41	27.40	33.00
			E1	V	128.85	21.89	9.90	5.41	26.38	33.00
				H	125.79	18.90	9.90	5.41	23.39	33.00
			E2	V	125.00	18.04	9.90	5.41	22.53	33.00
				H	125.83	18.94	9.90	5.84	23.00	33.00
	1880.00	661	H	V	121.34	14.39	9.99	5.46	18.92	33.00
				H	128.84	21.97	9.99	5.46	26.50	33.00
			E1	V	128.13	21.18	9.99	5.46	25.71	33.00
				H	124.26	17.39	9.99	5.46	21.92	33.00
			E2	V	124.89	17.94	9.99	5.46	22.47	33.00
				H	124.37	17.50	9.99	5.46	22.03	33.00
	1909.80	810	H	V	121.93	14.99	10.08	5.51	19.56	33.00
				H	128.86	22.01	10.08	5.51	26.57	33.00
			E1	V	127.75	20.81	10.08	5.51	25.38	33.00
				H	123.43	16.58	10.08	5.51	21.14	33.00
			E2	V	124.65	17.71	10.08	5.51	22.28	33.00
				H	124.28	17.43	10.08	5.51	21.99	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
 Below 1GHz was RBW=300 KHz, VBW=1000KHz,  
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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### 6.7. Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBUV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	115.06	27.74	-7.87	3.64	16.22	38.45
				H	125.06	37.40	-7.87	3.64	25.89	38.45
			E1	V	126.04	38.72	-7.87	3.64	27.20	38.45
				H	117.03	29.37	-7.87	3.64	17.86	38.45
			E2	V	121.29	33.97	-7.87	3.64	22.45	38.45
				H	126.49	38.83	-7.87	3.64	27.32	38.45
	836.60	190	H	V	112.06	25.03	-7.88	3.70	13.46	38.45
				H	126.06	38.72	-7.88	3.70	27.15	38.45
			E1	V	123.90	36.87	-7.88	3.70	25.30	38.45
				H	117.35	30.01	-7.88	3.70	18.44	38.45
			E2	V	121.46	34.43	-7.88	3.70	22.86	38.45
				H	128.05	40.71	-7.88	3.70	29.14	38.45
	848.80	251	H	V	116.90	30.16	-7.88	3.75	18.53	38.45
				H	126.59	39.57	-7.88	3.75	27.94	38.45
			E1	V	125.51	38.77	-7.88	3.75	27.14	38.45
				H	120.43	33.41	-7.88	3.75	21.78	38.45
			E2	V	122.90	36.16	-7.88	3.75	24.53	38.45
				H	128.49	41.47	-7.88	3.75	29.84	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
 Below 1GHz was RBW=300 KHz, VBW=1000KHz,  
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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### 6.8. 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	118.91	11.95	9.90	5.41	16.44	33.00
				H	123.96	17.07	9.90	5.41	21.56	33.00
			E1	V	129.28	22.32	9.90	5.41	26.81	33.00
				H	124.38	17.49	9.90	5.41	21.98	33.00
			E2	V	125.67	18.71	9.90	5.41	23.20	33.00
				H	127.99	21.10	9.90	5.84	25.16	33.00
	1880.00	661	H	V	118.28	11.33	9.99	5.46	15.86	33.00
				H	123.68	16.81	9.99	5.46	21.34	33.00
			E1	V	128.70	21.75	9.99	5.46	26.28	33.00
				H	124.31	17.44	9.99	5.46	21.97	33.00
			E2	V	125.19	18.24	9.99	5.46	22.77	33.00
				H	126.77	19.90	9.99	5.46	24.43	33.00
	1909.80	810	H	V	118.11	11.17	10.08	5.51	15.74	33.00
				H	127.50	20.65	10.08	5.51	25.21	33.00
			E1	V	125.07	18.13	10.08	5.51	22.70	33.00
				H	121.53	14.68	10.08	5.51	19.24	33.00
			E2	V	124.78	17.84	10.08	5.51	22.41	33.00
				H	126.19	19.34	10.08	5.51	23.90	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
 Below 1GHz was RBW=300 KHz, VBW=1000KHz,  
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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### 6.9. Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
WCDMA Band V	826.40	128	H	V	106.86	20.50	-7.88	3.63	8.99	38.45
				H	115.63	29.37	-7.88	3.63	17.87	38.45
			E1	V	116.24	29.88	-7.88	3.63	18.37	38.45
				H	102.56	16.30	-7.88	3.63	4.80	38.45
			E2	V	112.12	25.76	-7.88	3.63	14.25	38.45
				H	116.54	30.28	-7.88	3.63	18.78	38.45
	836.00	190	H	V	101.62	15.36	-7.88	3.65	3.83	38.45
				H	111.72	25.49	-7.88	3.65	13.96	38.45
			E1	V	111.92	25.66	-7.88	3.65	14.13	38.45
				H	98.79	12.56	-7.88	3.65	1.03	38.45
			E2	V	107.78	21.52	-7.88	3.65	9.99	38.45
				H	112.72	26.49	-7.88	3.65	14.96	38.45
	846.60	251	H	V	102.00	15.85	-7.88	3.67	4.30	38.45
				H	113.30	27.10	-7.88	3.67	15.55	38.45
			E1	V	113.83	27.67	-7.88	3.67	16.12	38.45
				H	100.73	14.53	-7.88	3.67	2.98	38.45
			E2	V	108.67	22.52	-7.88	3.67	10.97	38.45
				H	114.70	28.50	-7.88	3.67	16.95	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
Below 1GHz was RBW=300 KHz, VBW=1000KHz,  
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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### 6.10. 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	108.34	3.96	9.90	5.56	8.29	33.00
				H	121.11	16.93	9.90	5.56	21.27	33.00
			E1	V	117.34	12.96	9.90	5.56	17.29	33.00
				H	122.01	17.83	9.90	5.56	22.17	33.00
			E2	V	121.48	17.10	9.90	5.56	21.43	33.00
				H	120.98	16.80	9.90	5.84	20.86	33.00
	1880.00	9400	H	V	106.81	2.45	9.99	5.61	6.83	33.00
				H	121.50	17.36	9.99	5.61	21.73	33.00
			E1	V	109.64	5.25	9.90	5.56	9.59	33.00
				H	123.10	18.96	9.99	5.61	23.33	33.00
			E2	V	121.33	16.97	9.99	5.61	21.35	33.00
				H	120.85	16.71	9.99	5.61	21.08	33.00
	1907.60	9538	H	V	106.00	1.67	10.07	5.66	6.08	33.00
				H	120.20	16.09	10.07	5.66	20.50	33.00
			E1	V	117.90	13.57	10.07	5.66	17.98	33.00
				H	119.18	15.07	10.07	5.66	19.48	33.00
			E2	V	120.42	16.09	10.07	5.66	20.50	33.00
				H	120.01	15.90	10.07	5.66	20.31	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
 Below 1GHz was RBW= 300 KHz, VBW=1000KHz,  
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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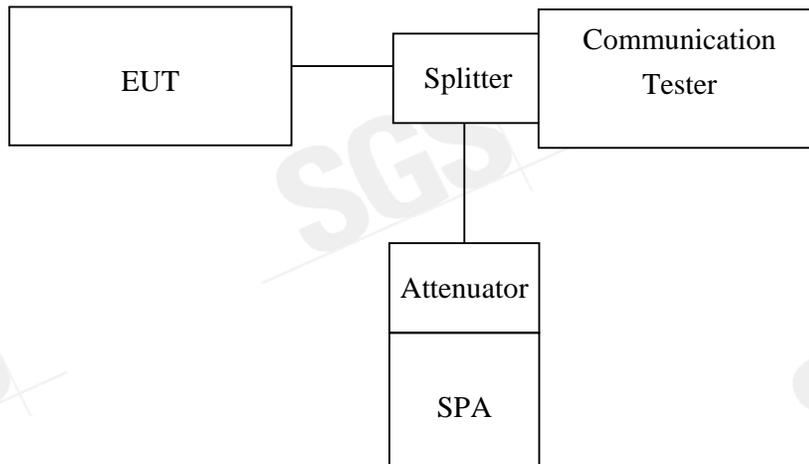
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## 7.99% OCCUPIED BANDWIDTH MEASUREMENT

### 7.1. Standard Applicable

According to §FCC 2.1049.

### 7.2. Test Set-up:



*Note: Measurement setup for testing on Antenna connector*

### 7.3. Measurement Procedure

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

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**7.4. Measurement Equipment Used:**

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2008	01/04/2009
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2008	07/06/2009
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2009	07/06/2009
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
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	51728	07/05/2008	07/04/2009

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**7.5. Measurement Result:.**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.243
	836.60	190	0.244
	848.80	251	0.244

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.245
	1880.00	661	0.247
	1909.80	810	0.245

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.242
	836.60	190	0.247
	848.80	251	0.246

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1852.20	512	0.246
	1880.00	661	0.245
	1909.80	810	0.247

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.15
	836.00	4180	4.17
	846.60	4233	4.18

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.17
	1880.00	9400	4.16
	1907.60	9538	4.17

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.17
	836.00	4180	4.15
	846.60	4233	4.17

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.40	9262	4.18
	1880.00	9400	4.17
	1907.60	9538	4.17

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Figure 7-1: GSM Channel Low

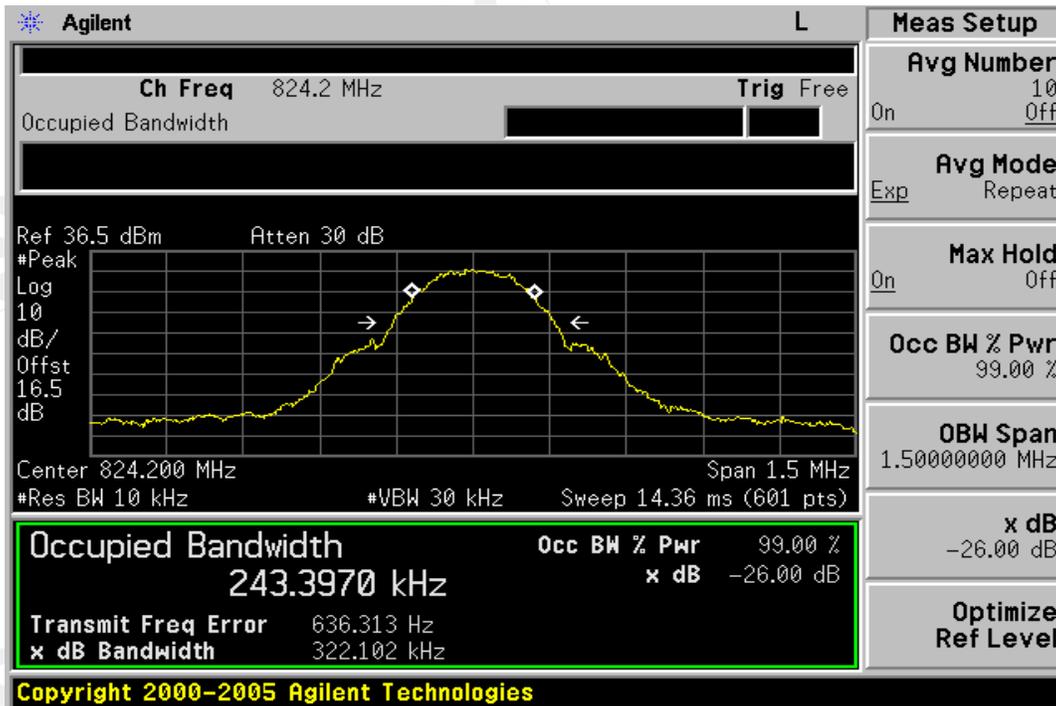
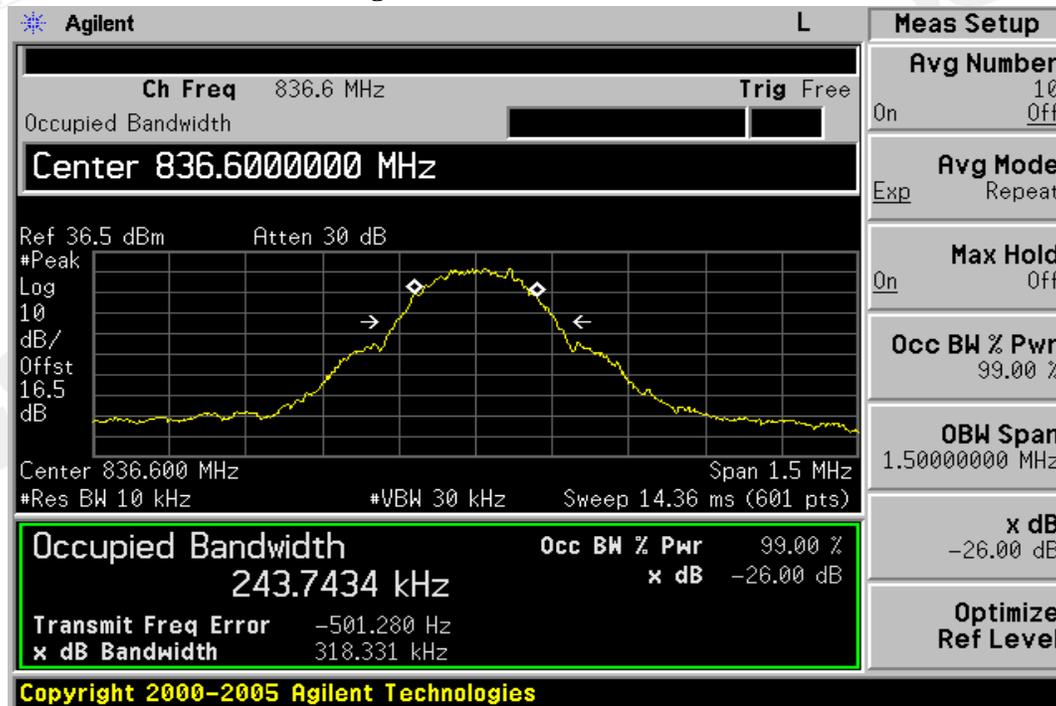


Figure 7-2 GSM Channel Mid



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Figure 7-3: GSM Channel High

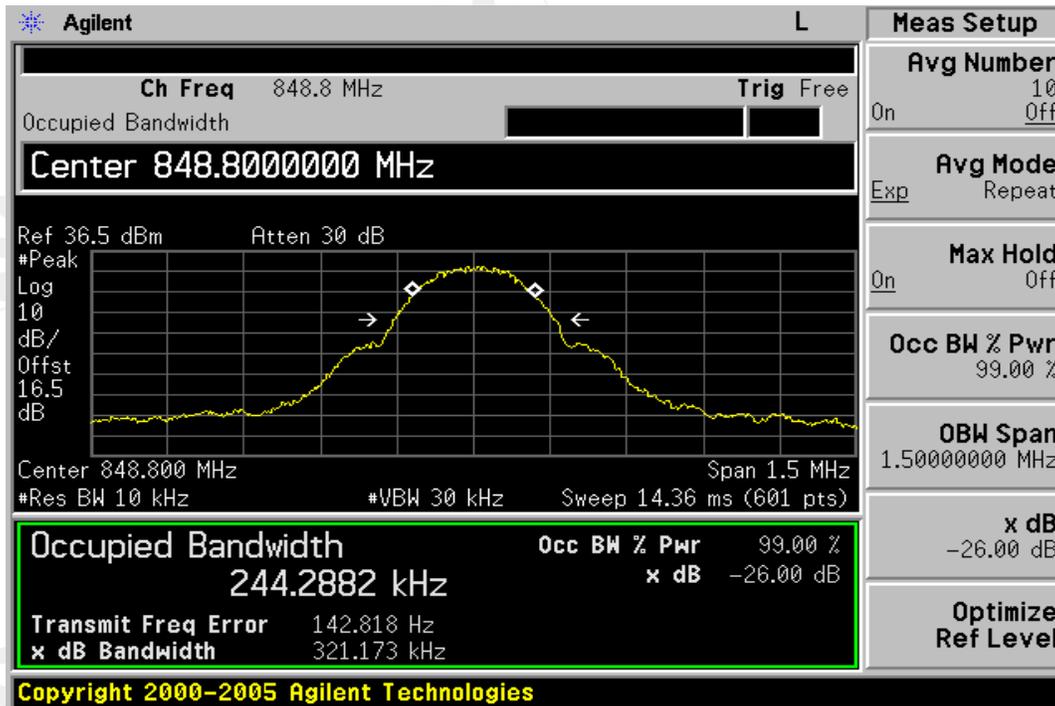
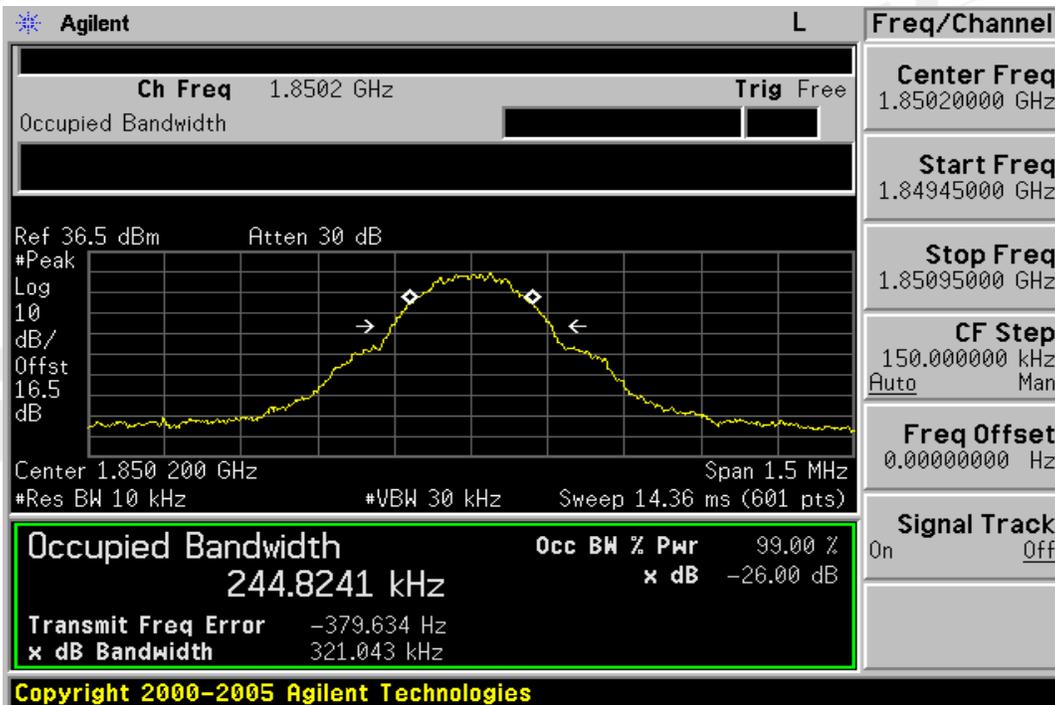


Figure 7-4: PCS Channel Low



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Figure 7-5 PCS Channel Mid

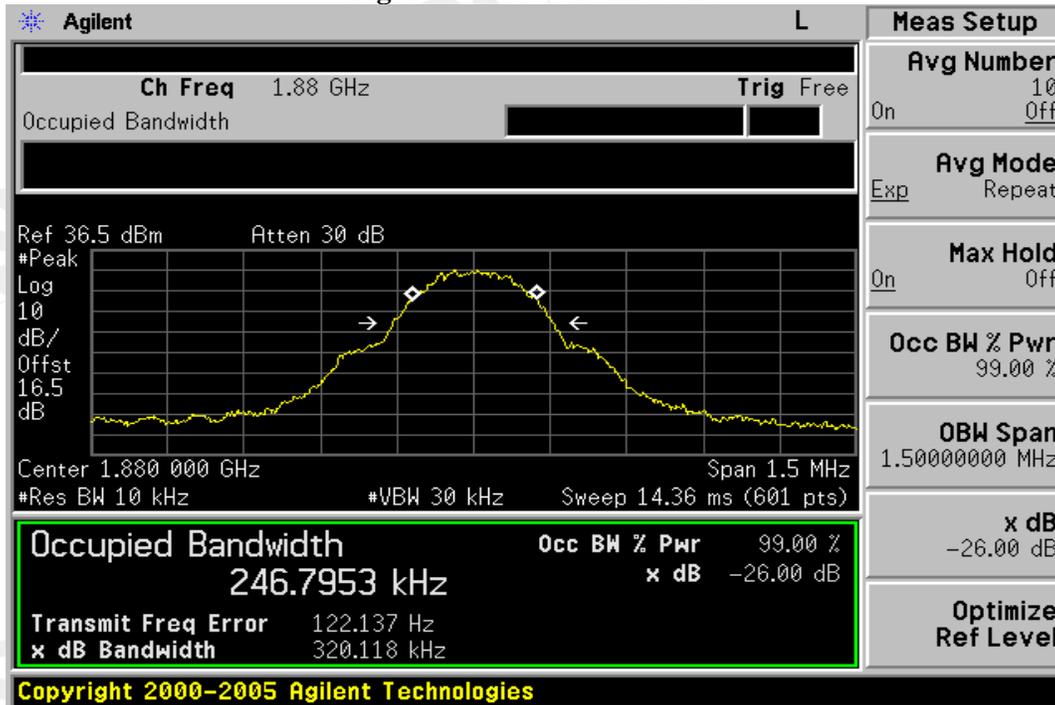
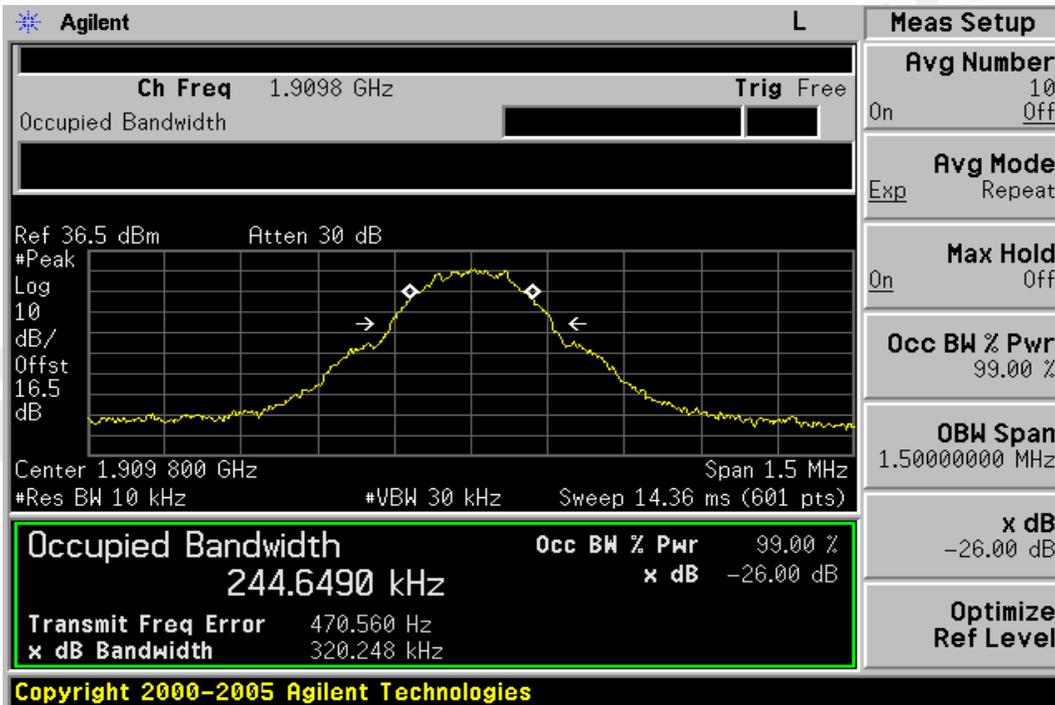


Figure 7-6: PCS Channel High



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Figure 7-7: EDGE 850 Channel Low

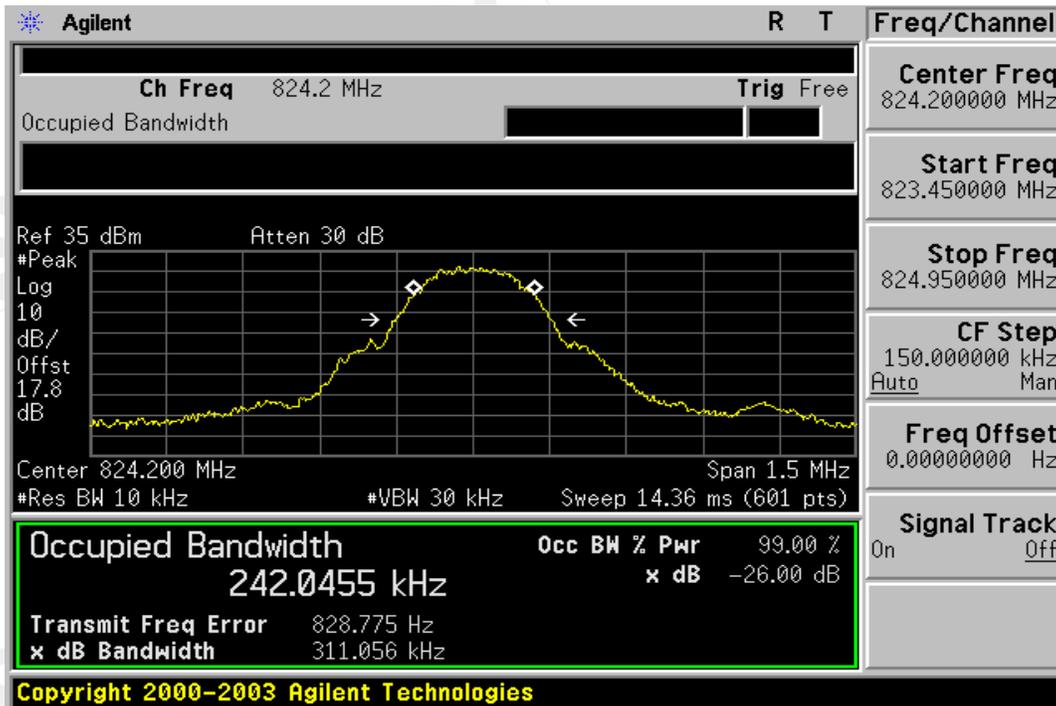
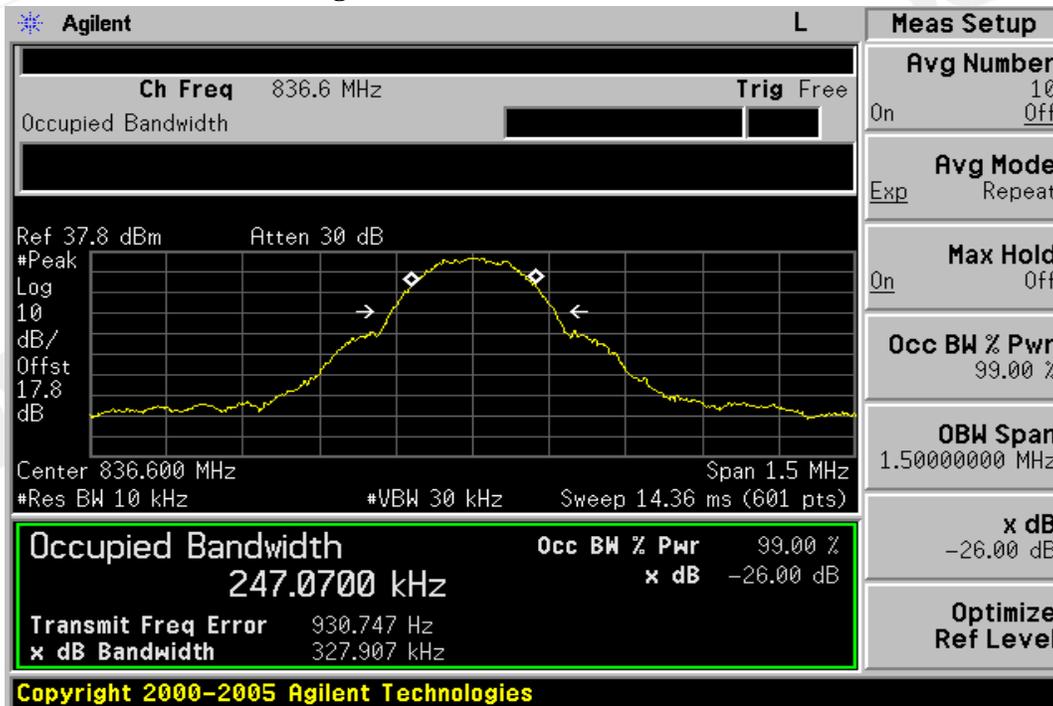


Figure 7-8 EDGE 850 Channel Mid



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Figure 7-9: EDGE 850 Channel High

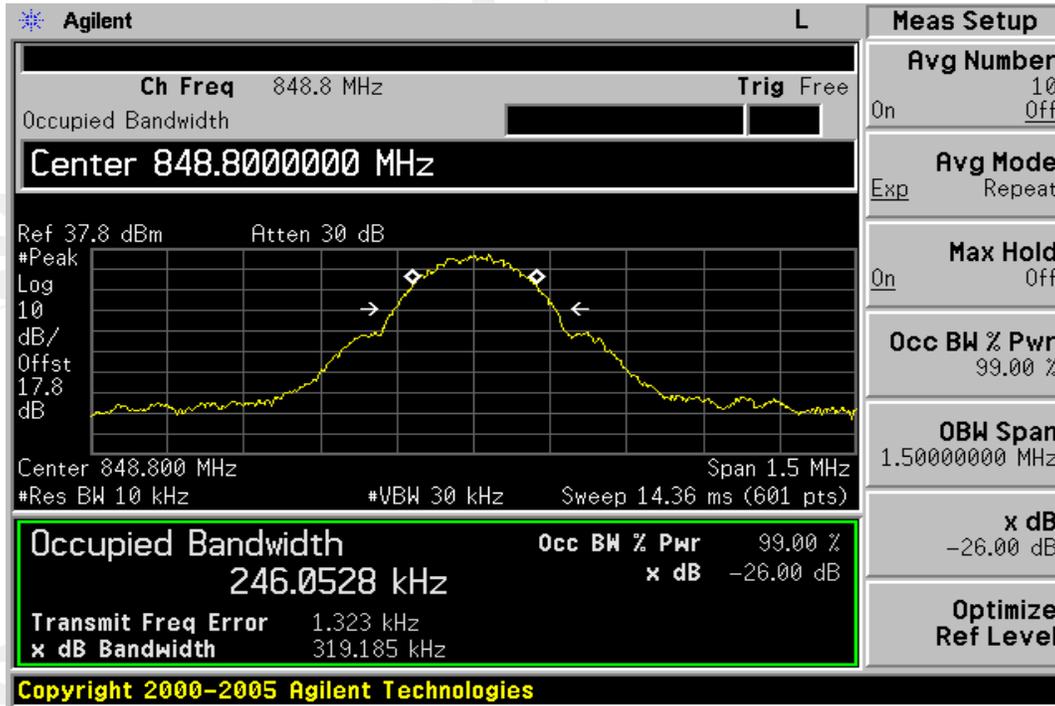
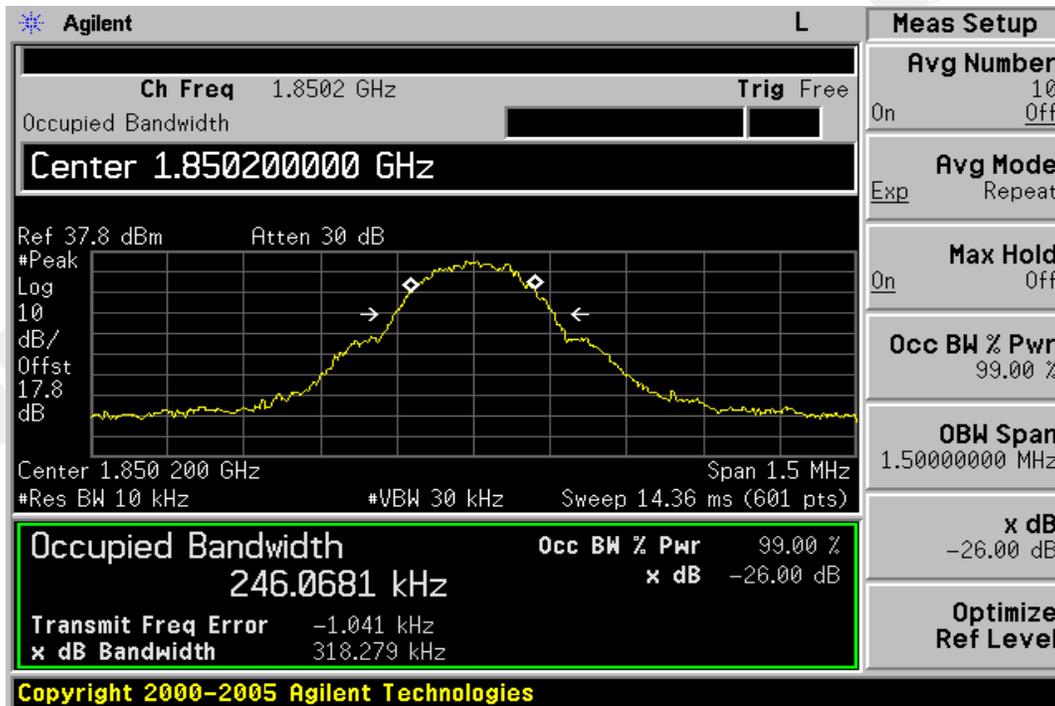


Figure 7-10: EDGE 1900 Channel Low



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Figure 7-11 EDGE 1900 Channel Mid

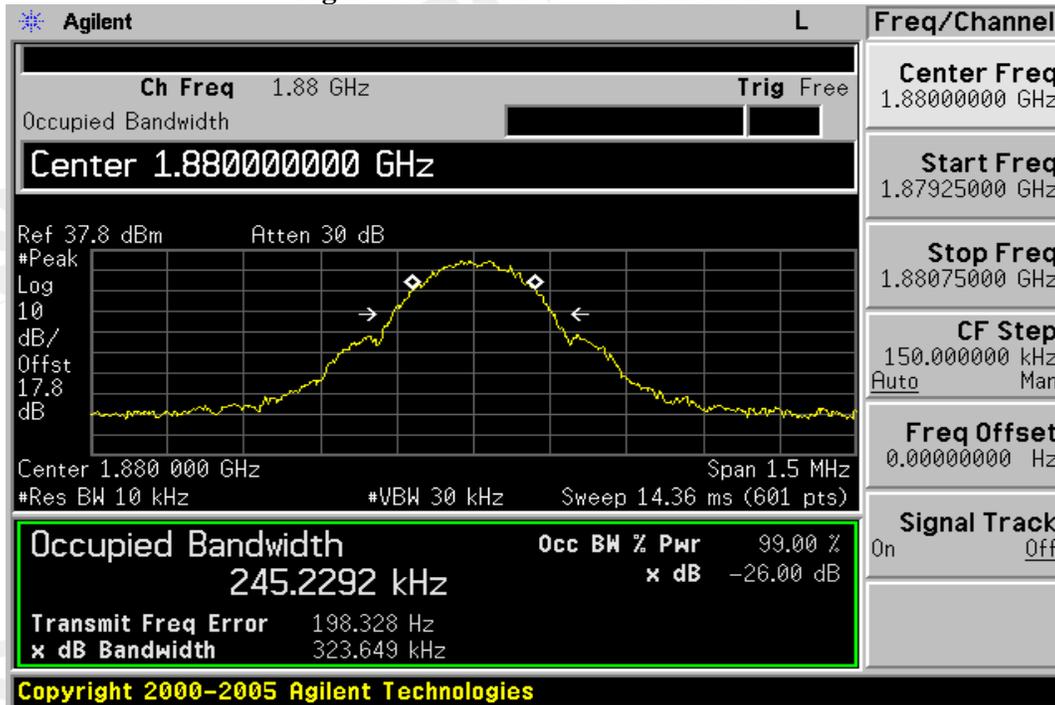
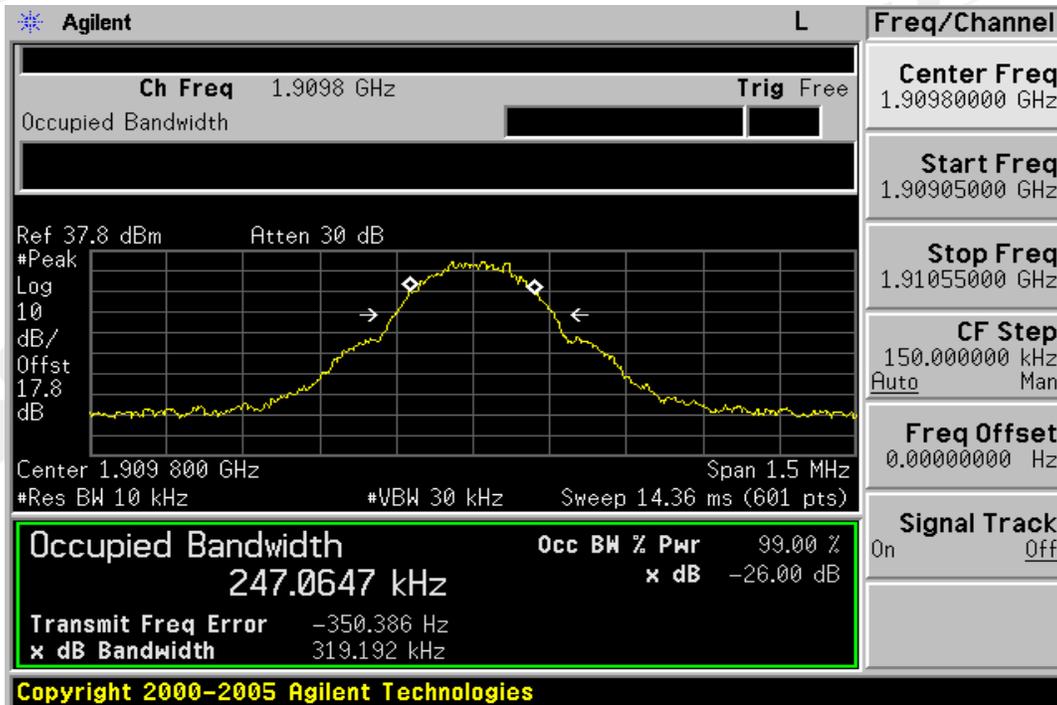


Figure 7-12: EDGE 1900 Channel High



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Figure 7-13: WCDMA II Channel Low

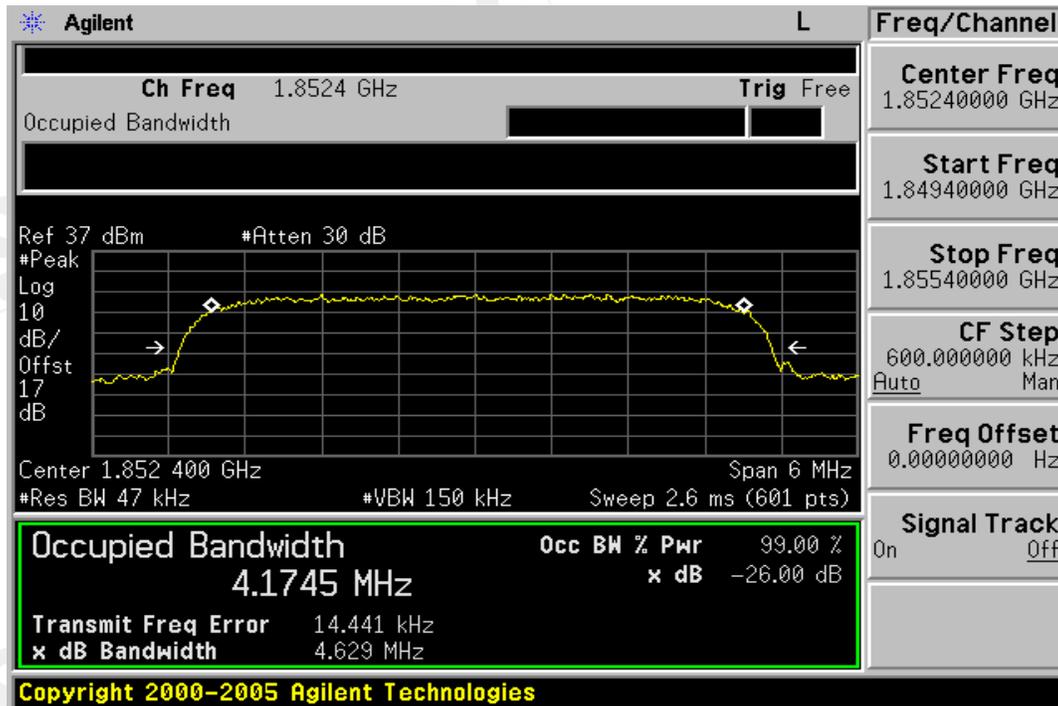
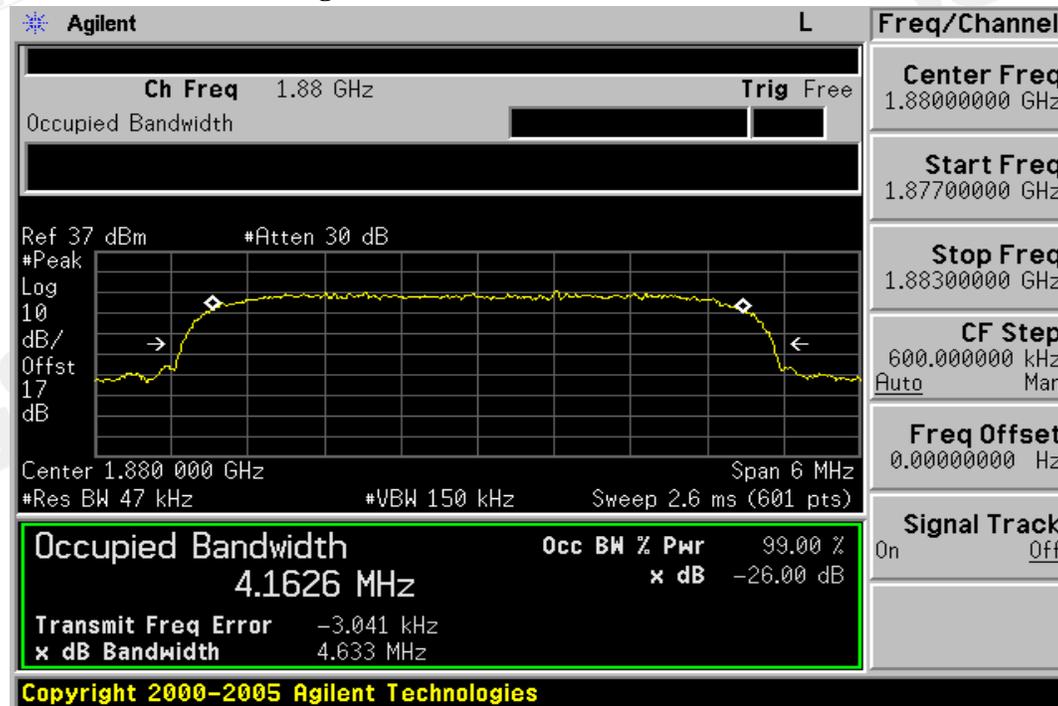


Figure 7-14: WCDMA II Channel Mid



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Figure 7-15: WCDMA II Channel High

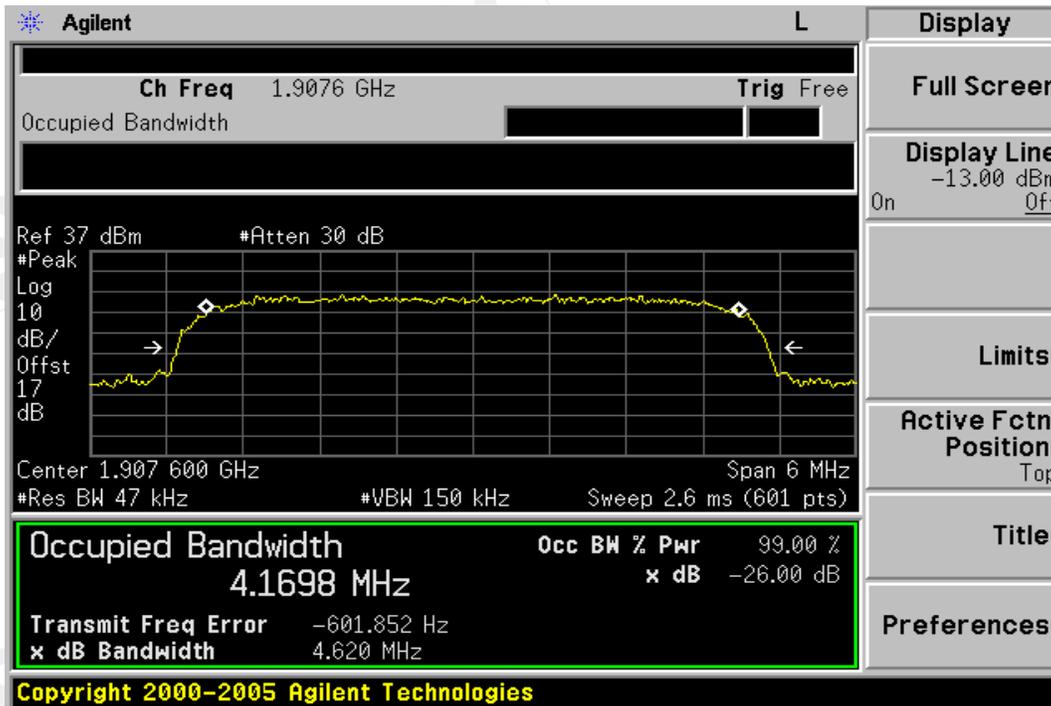
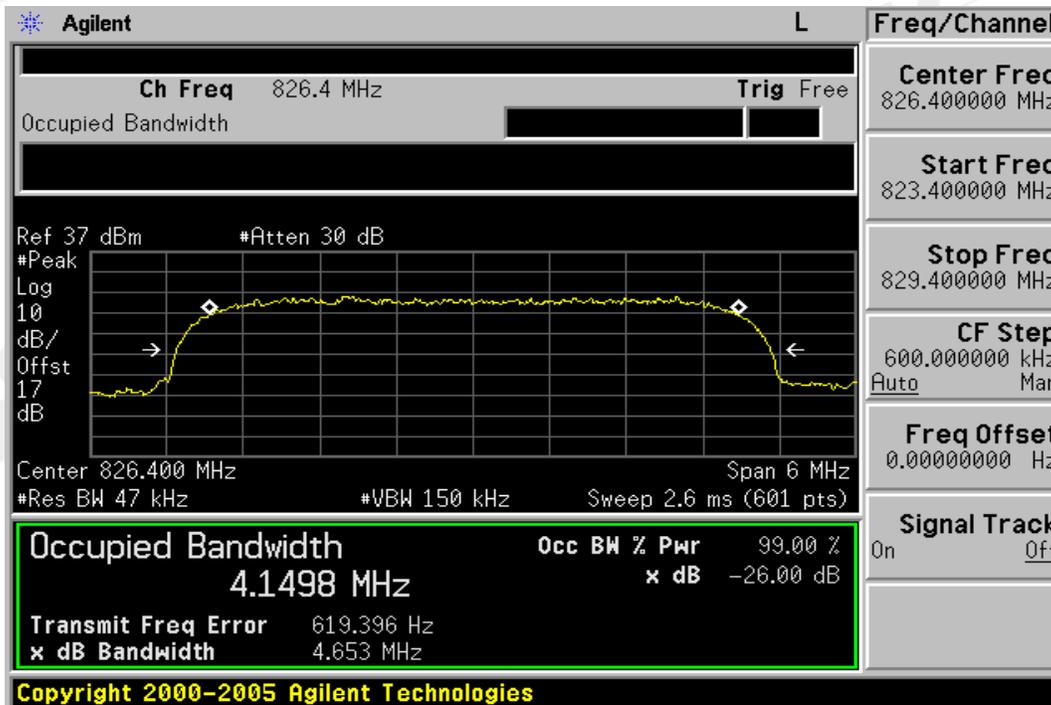


Figure 7-16: WCDMA V Channel Low



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Figure 7-17: WCDMA V Channel Mid

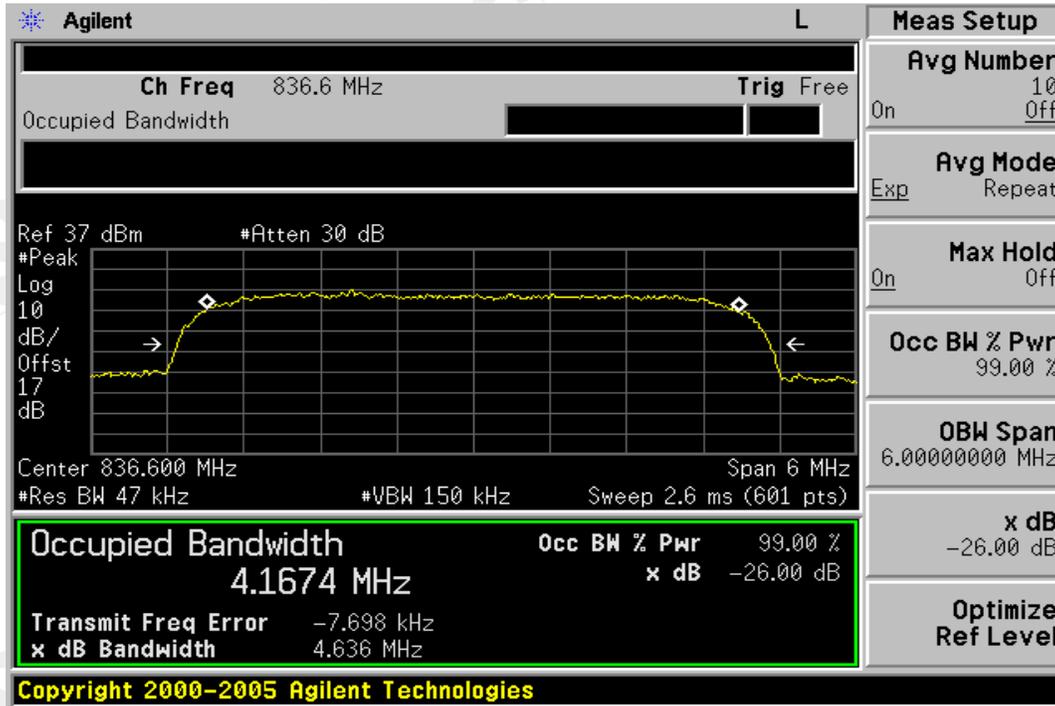
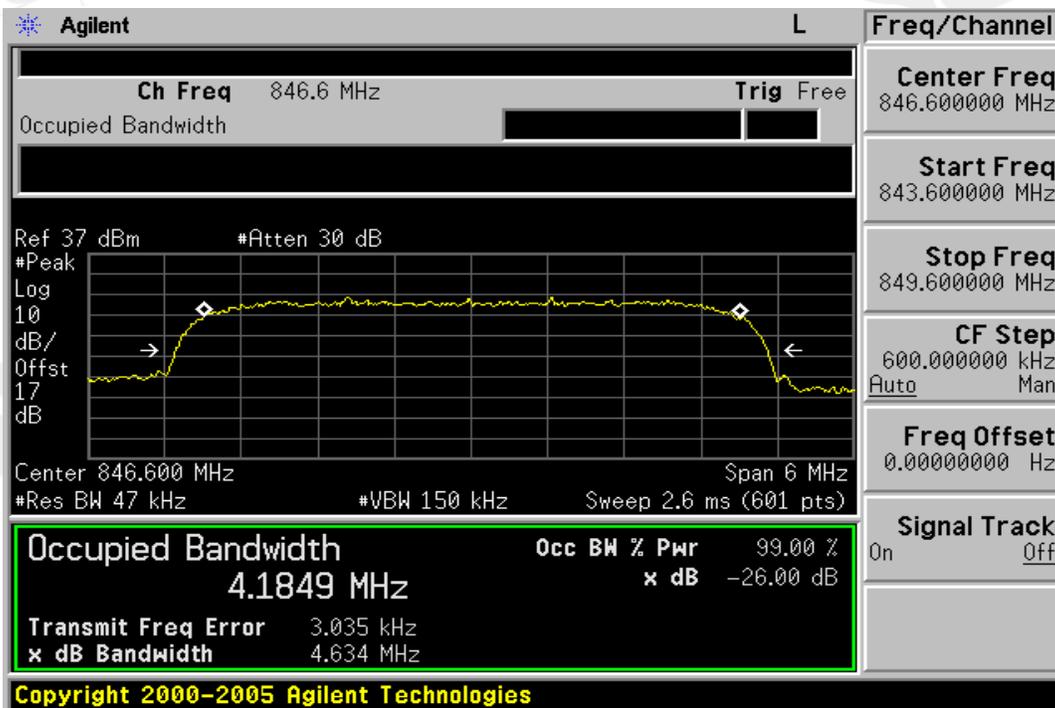


Figure 7-18: WCDMA V Channel High



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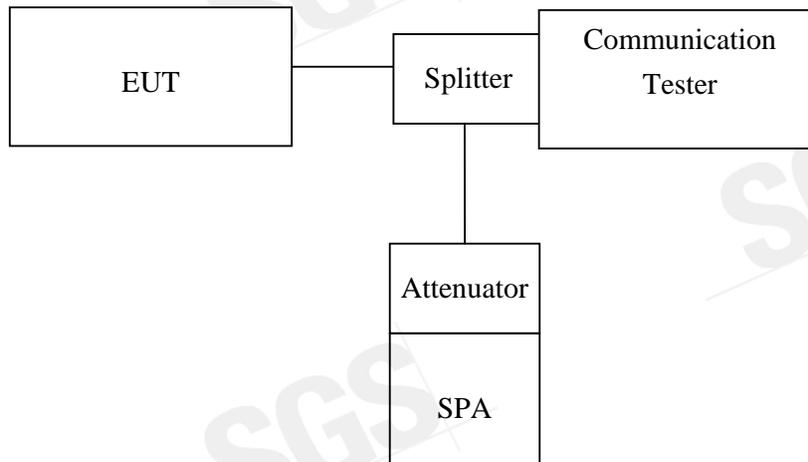
## 8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 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)

### 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.

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**8.4. Measurement Equipment Used:**

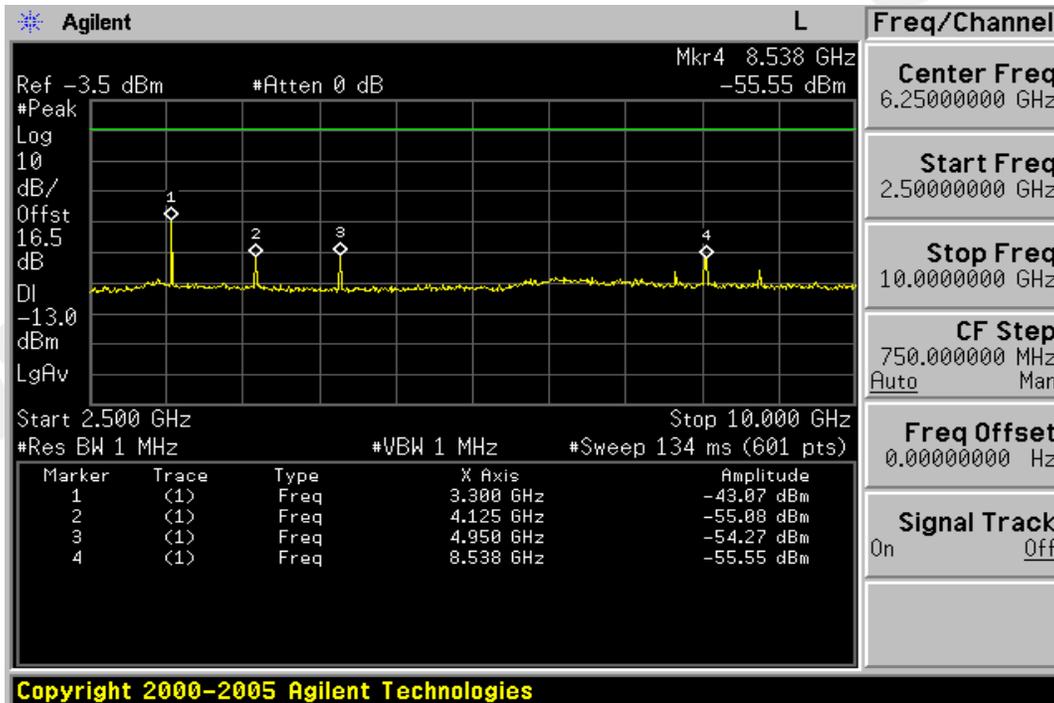
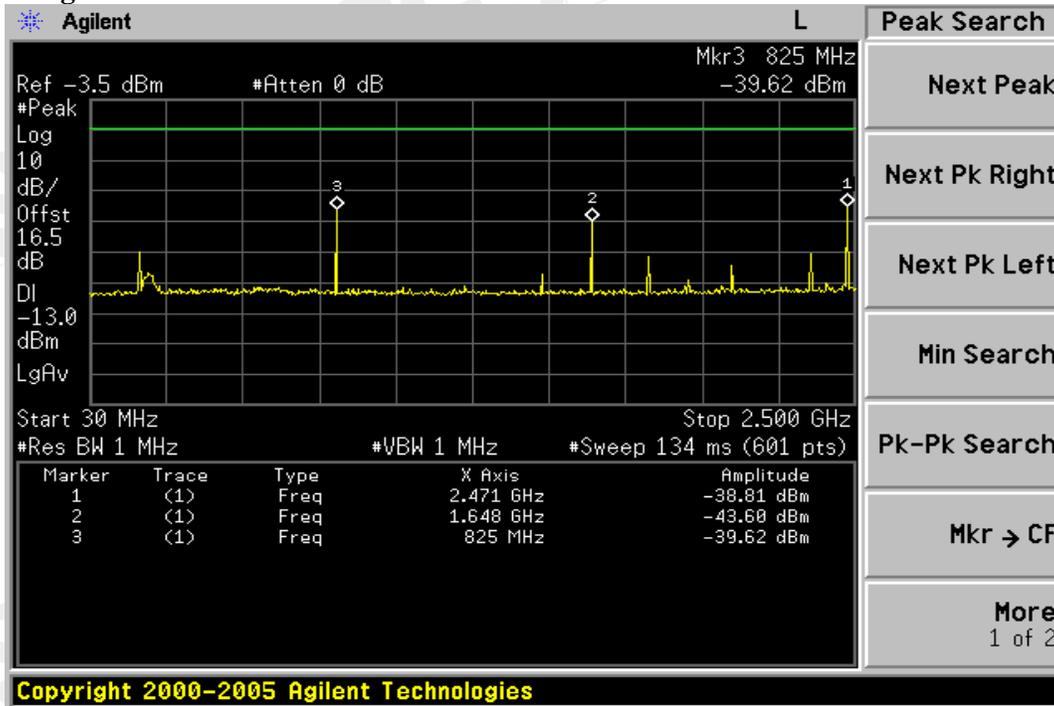
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2008	01/04/2009
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2008	07/06/2009
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2008	07/06/2009
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
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	51728	07/05/2008	07/04/2009
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2008	06/26/2009

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## 8.5. Measurement Result

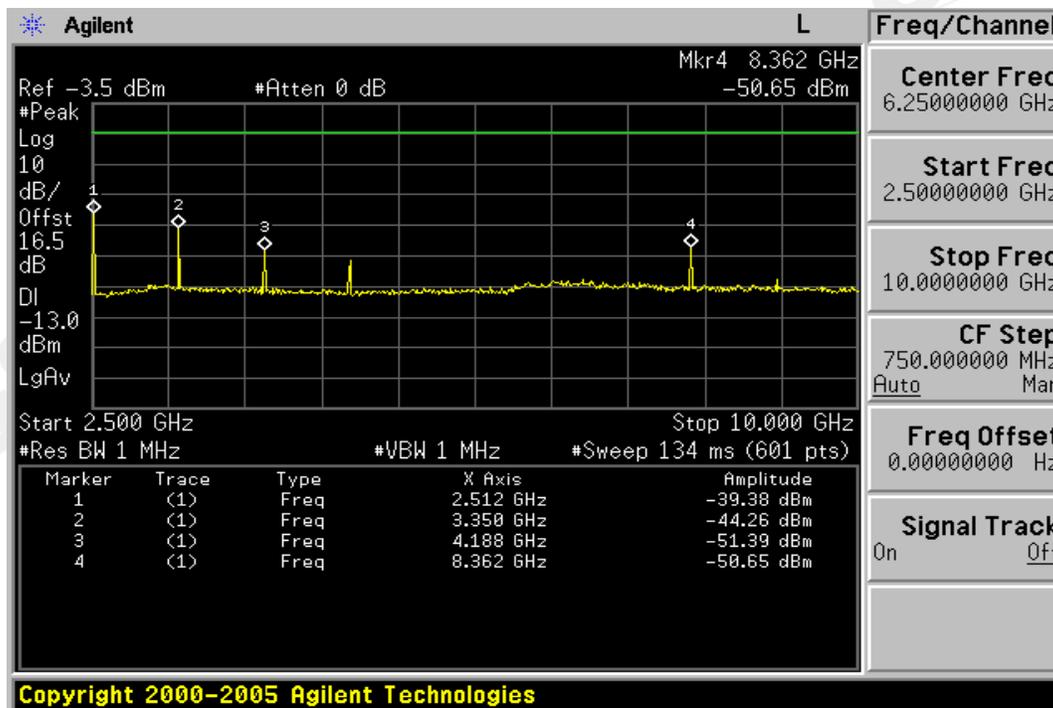
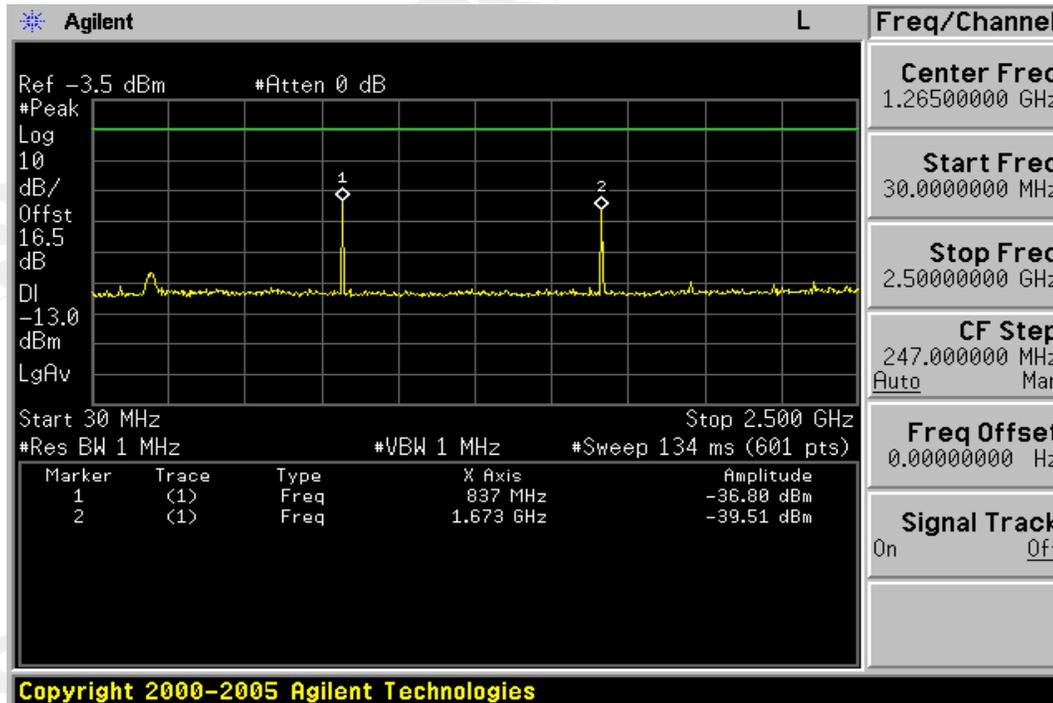
Figure 8-1: Out of Band emission at antenna terminals– GSM Channel Lowest



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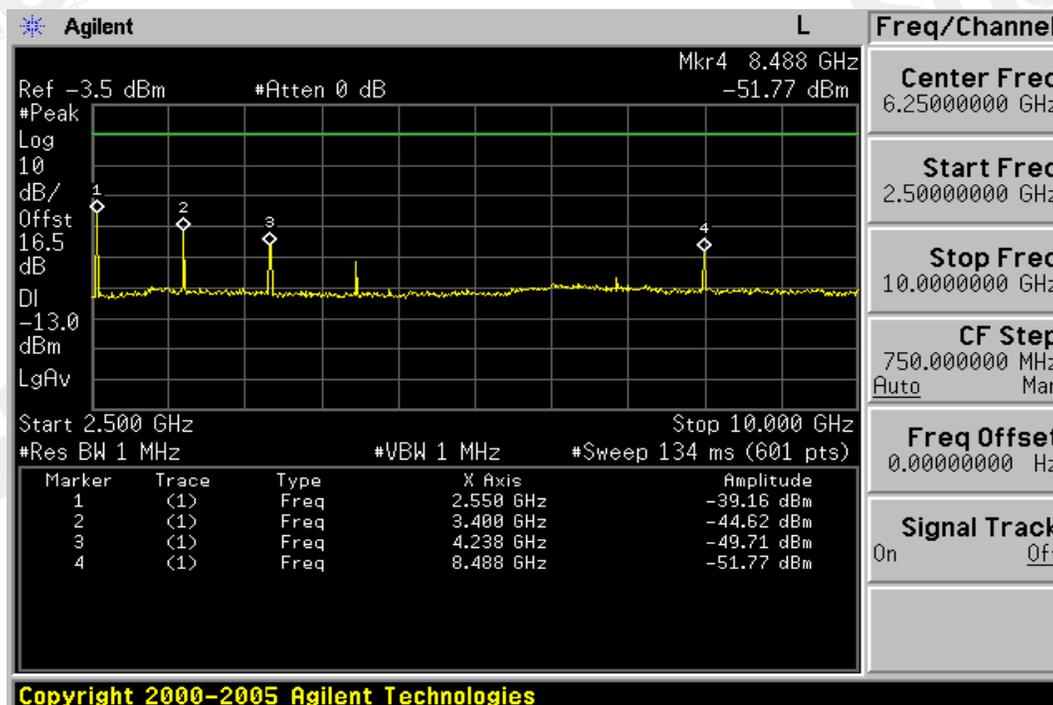
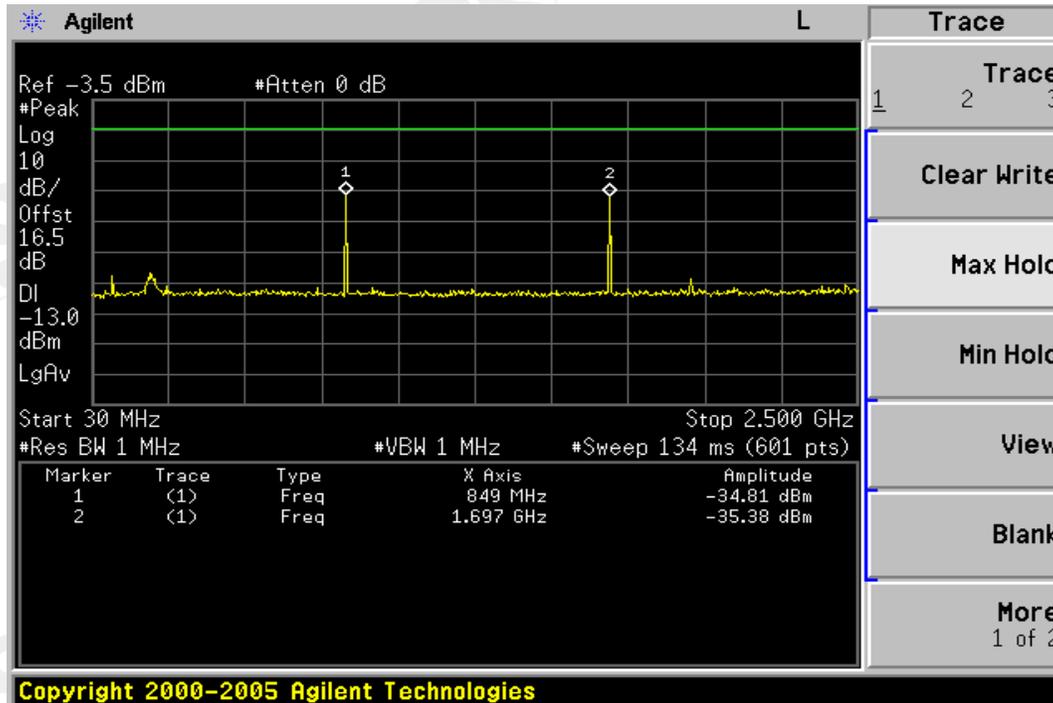
**Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid**



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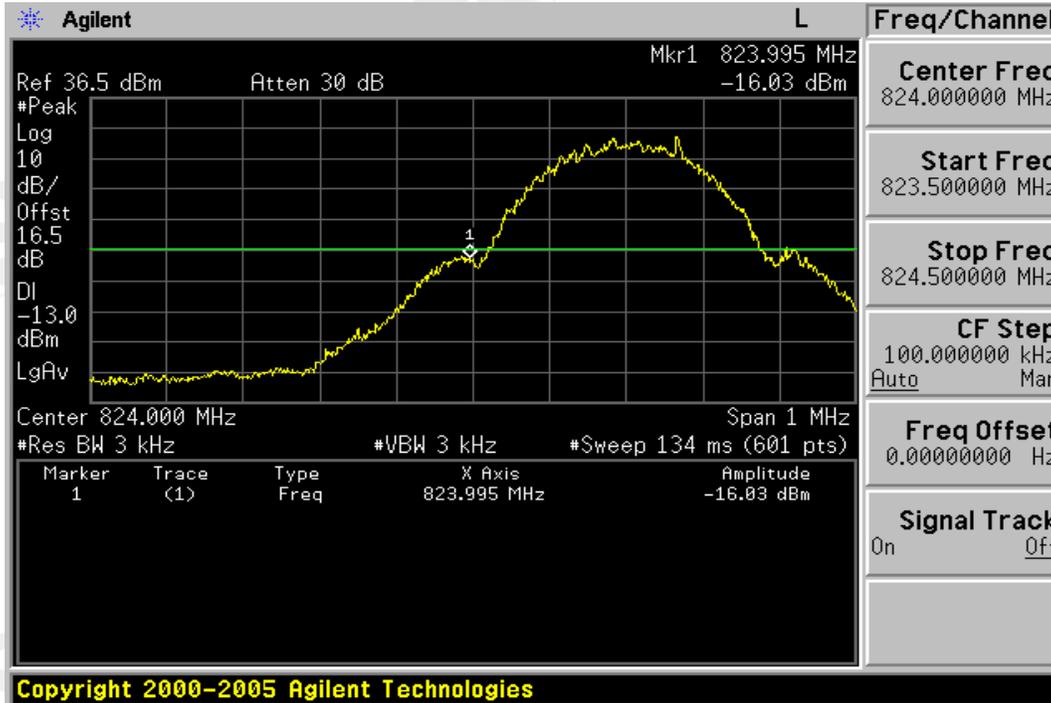
**Figure 8-3: Out of Band emission at antenna terminals–GSM Channel Highest**



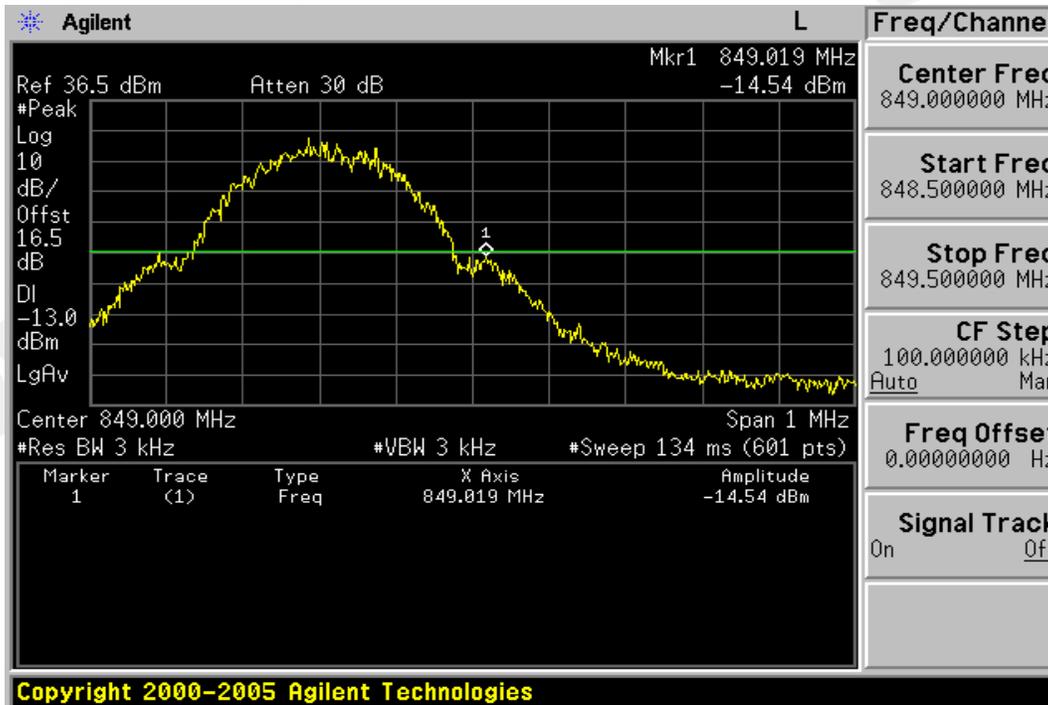
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**Figure 8-4: Band edge emission at antenna terminals – GSM Channel Lowest**



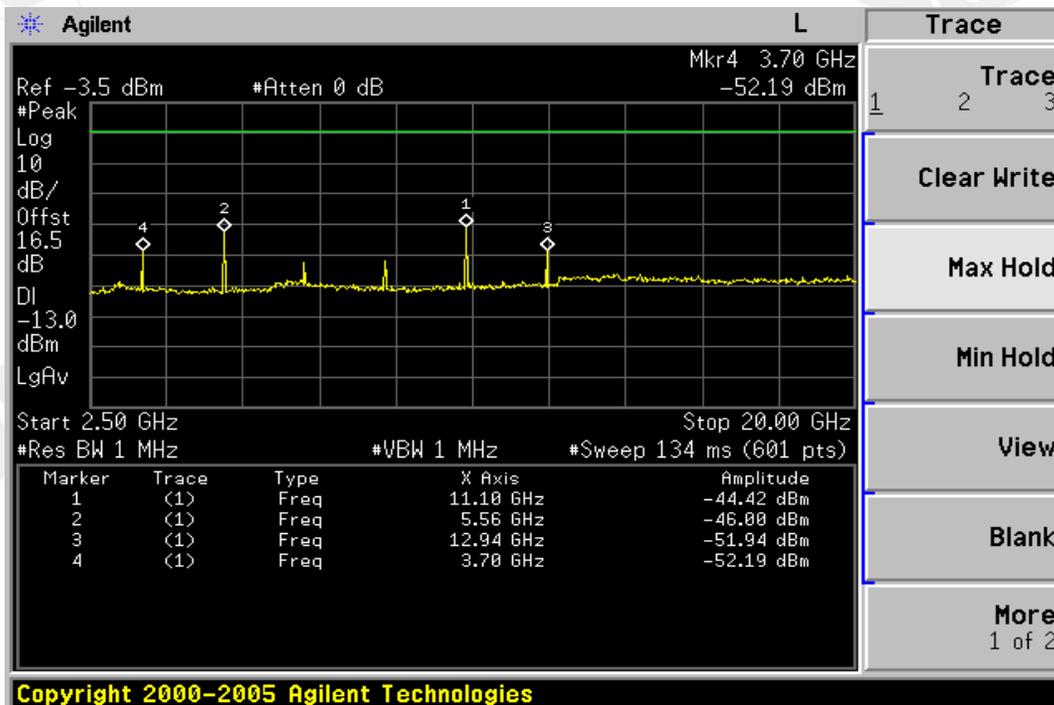
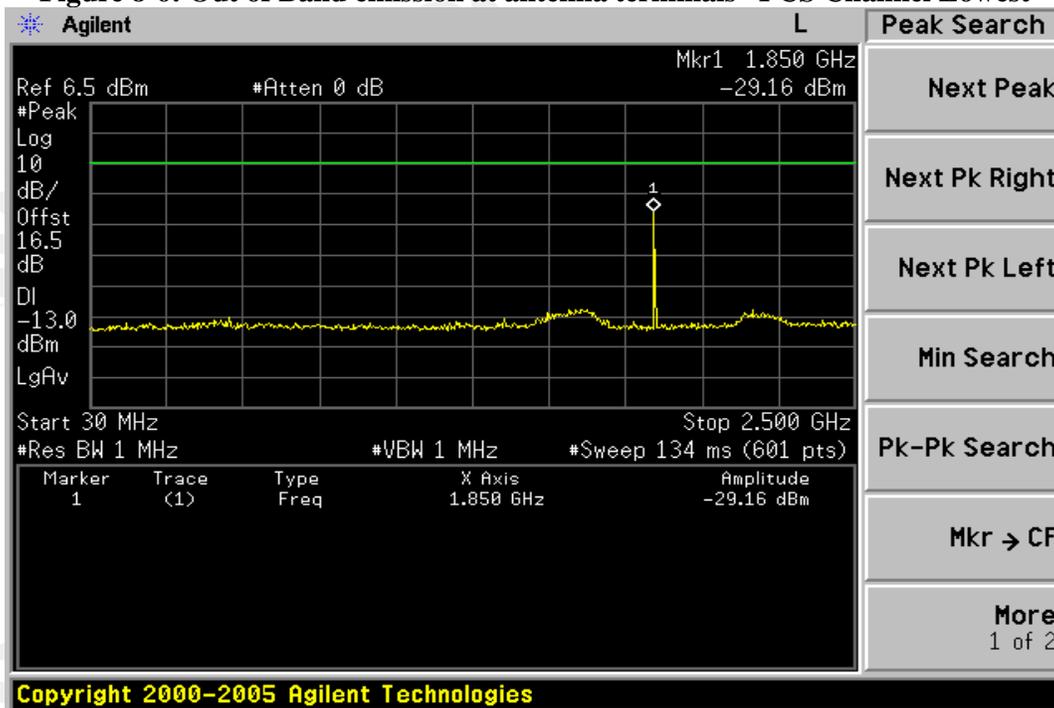
**Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest**



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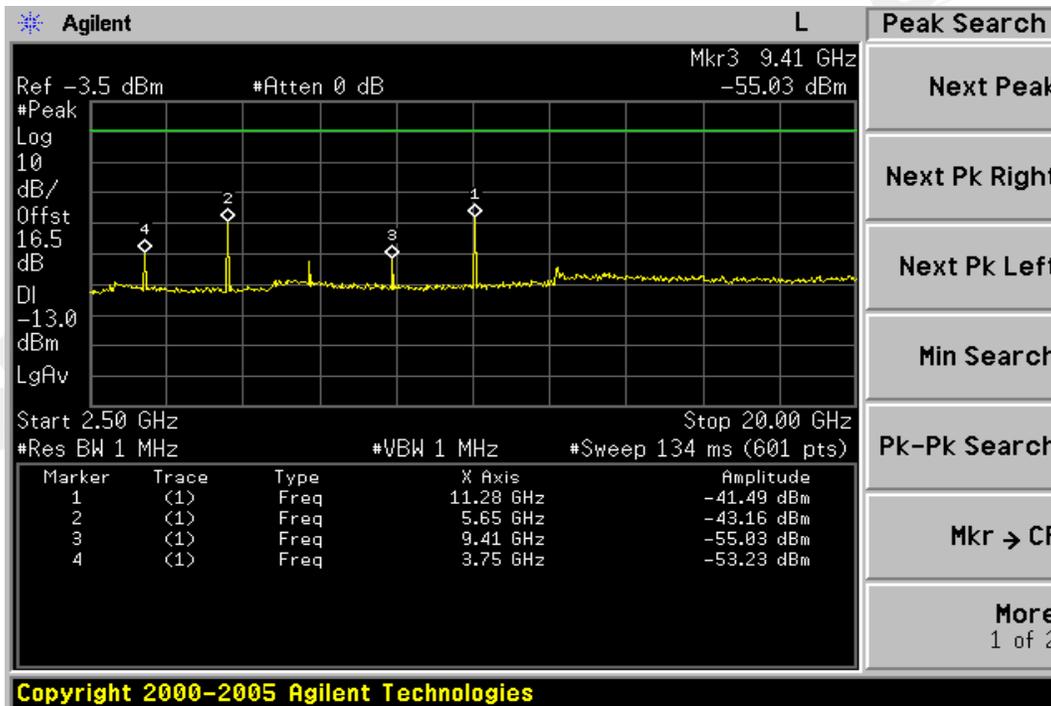
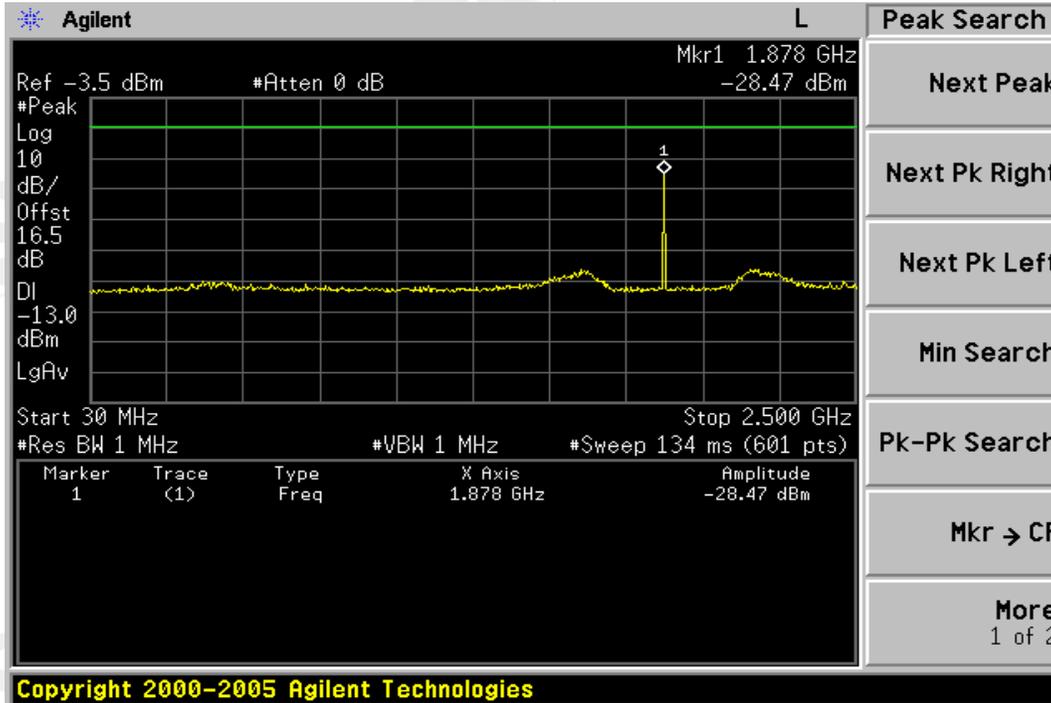
Figure 8-6: Out of Band emission at antenna terminals- PCS Channel Lowest



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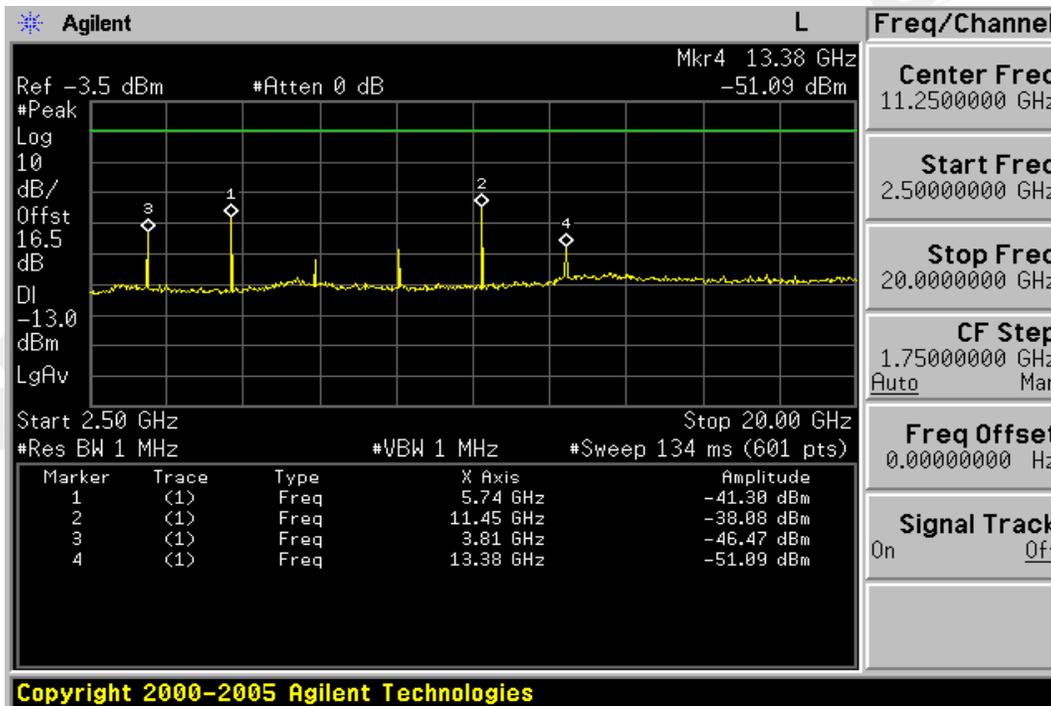
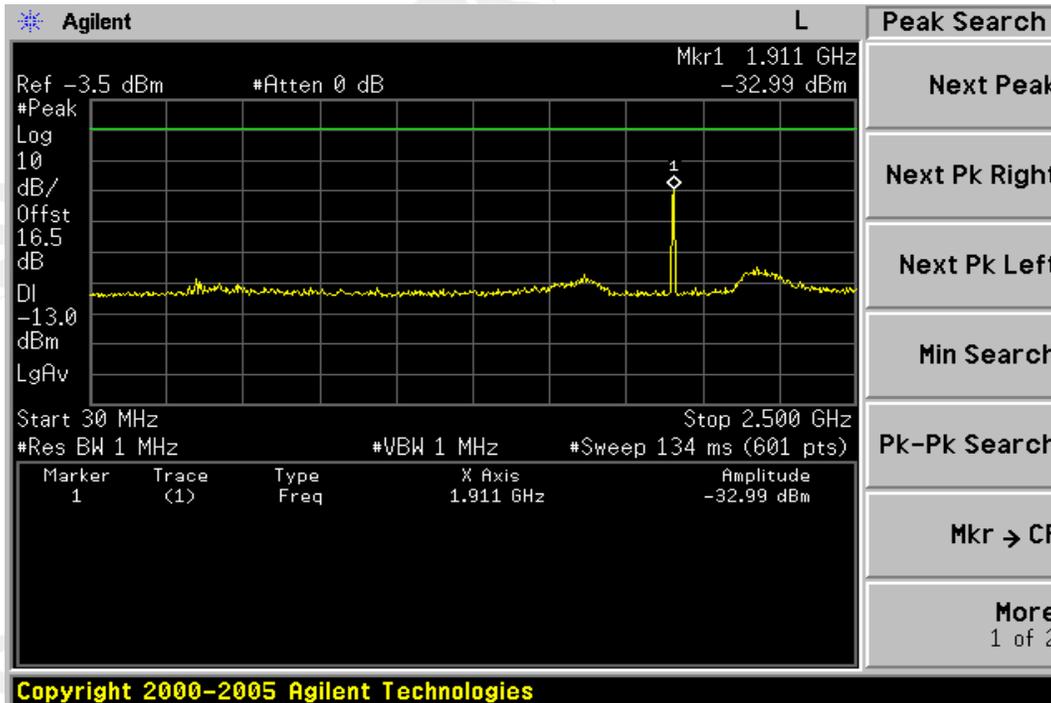
Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid



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



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

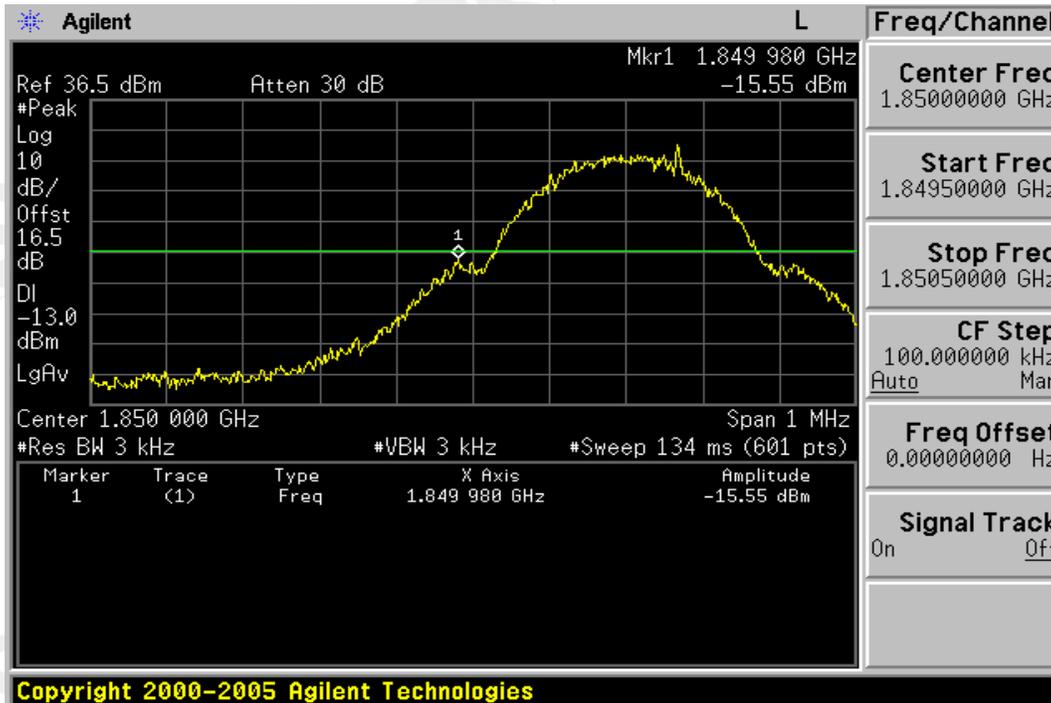
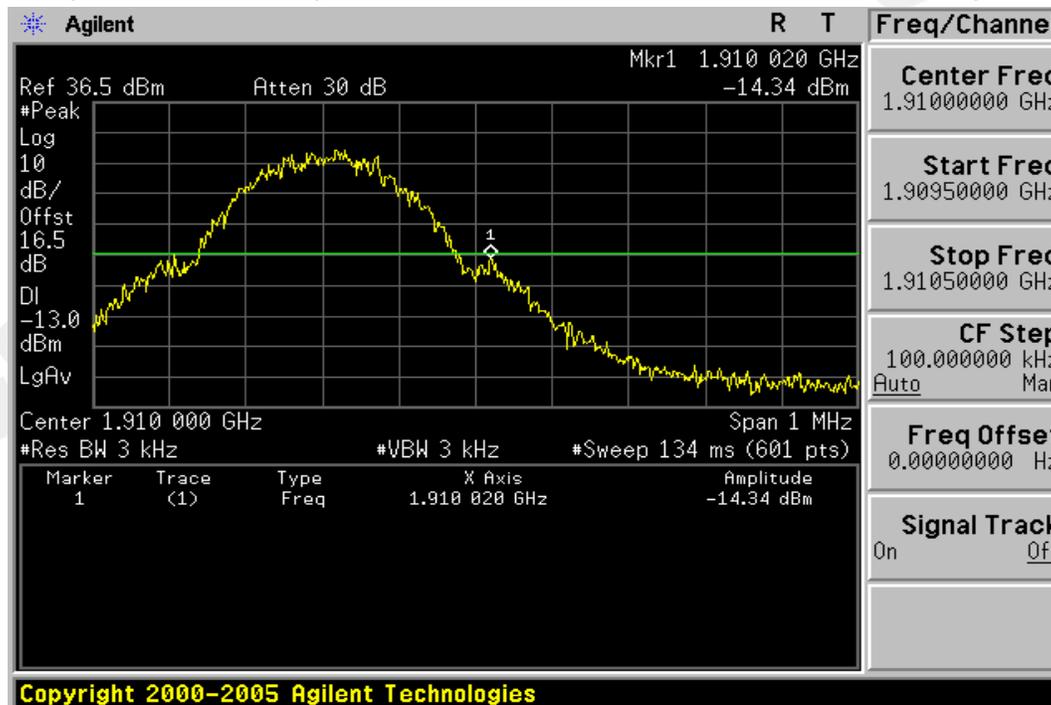


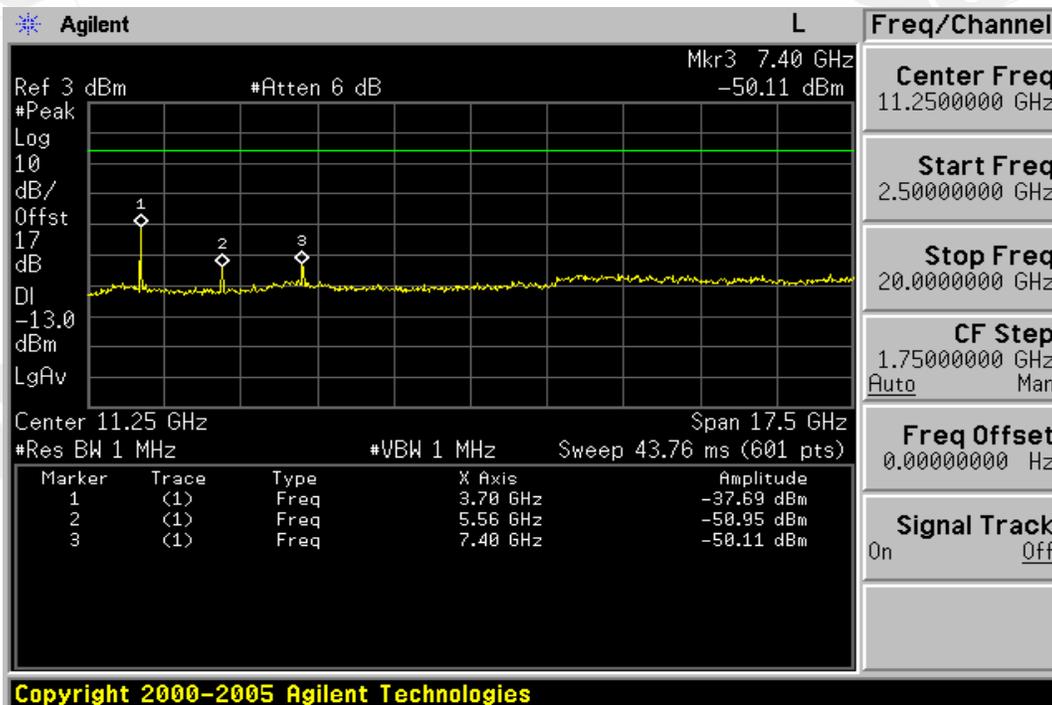
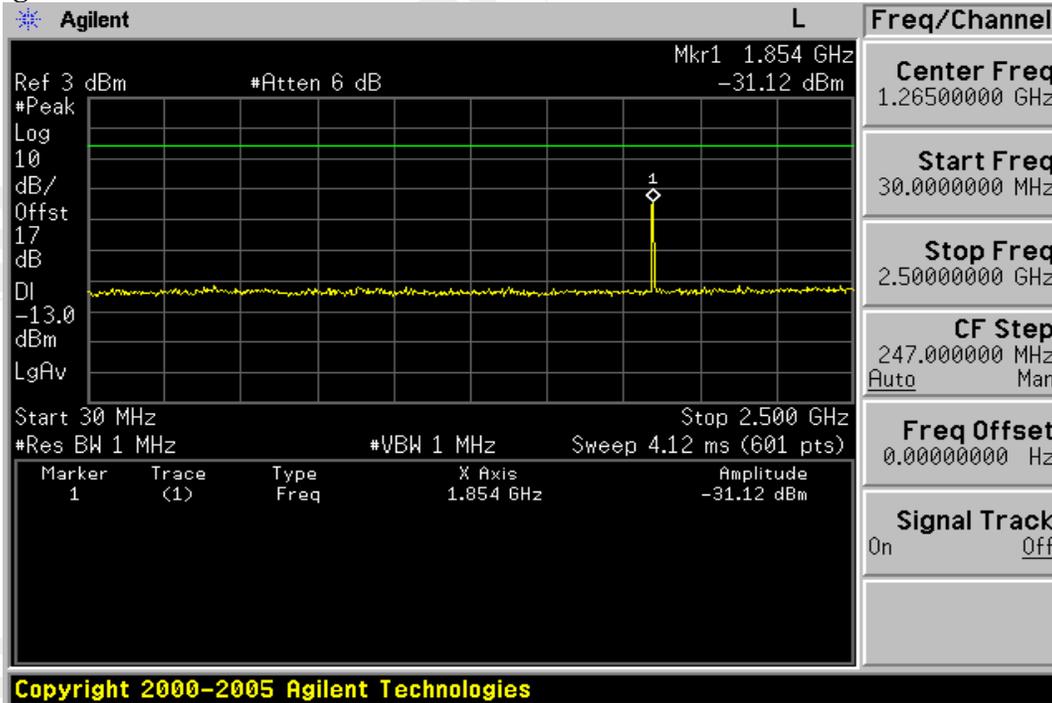
Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



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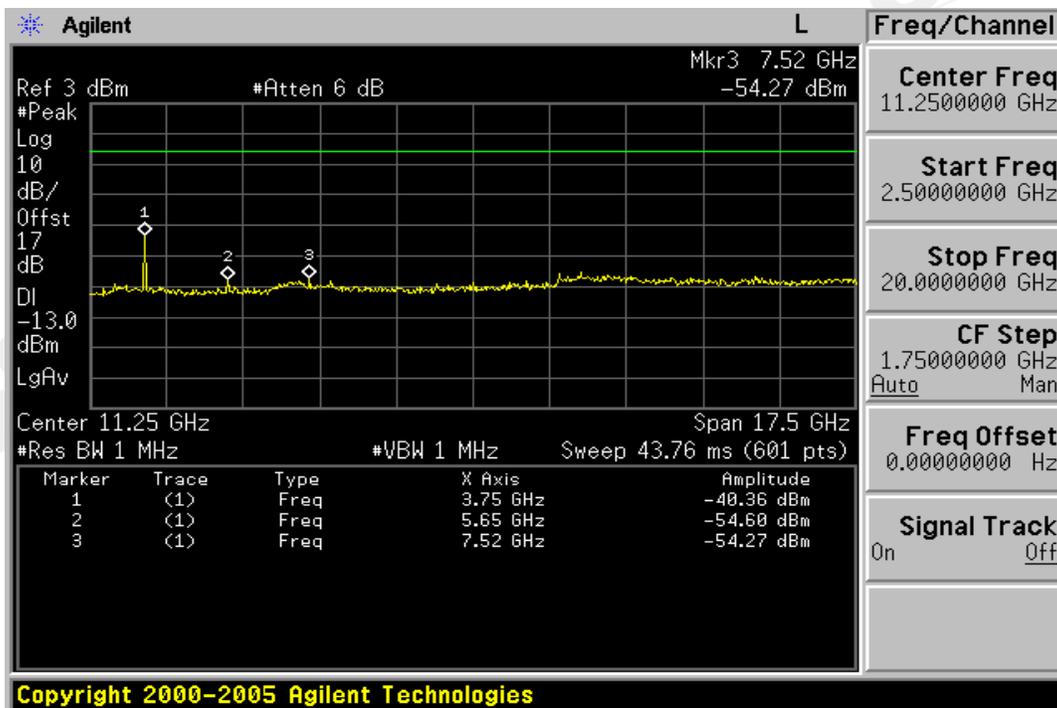
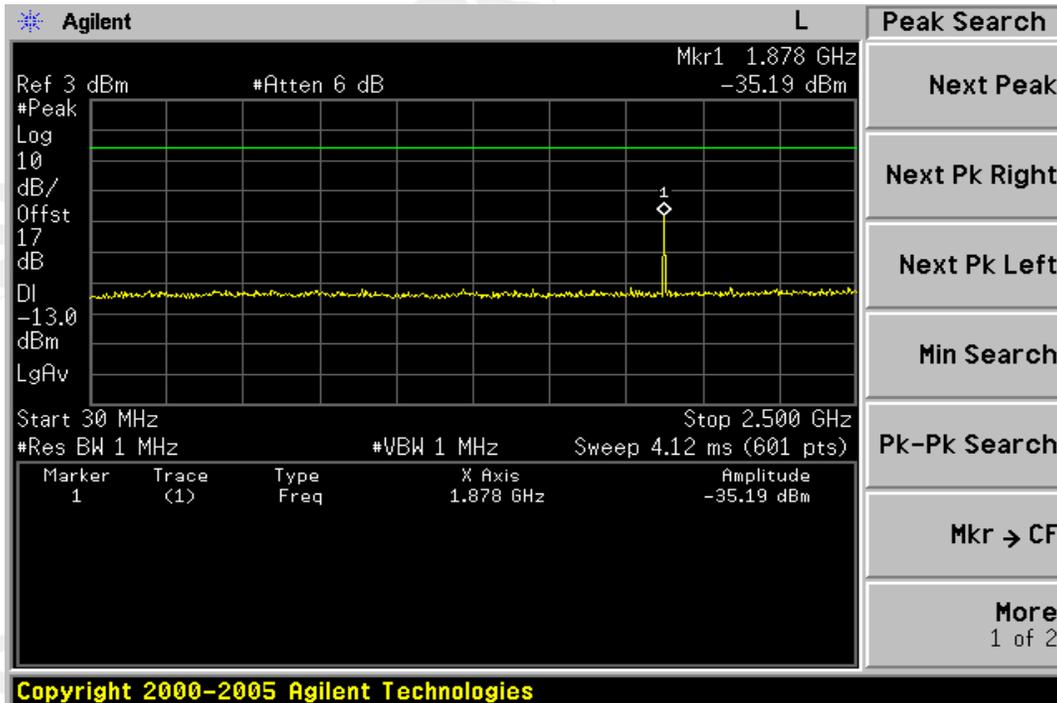
Figure 8-11: Out of Band emission at antenna terminals–WCDMA II Channel Lowest



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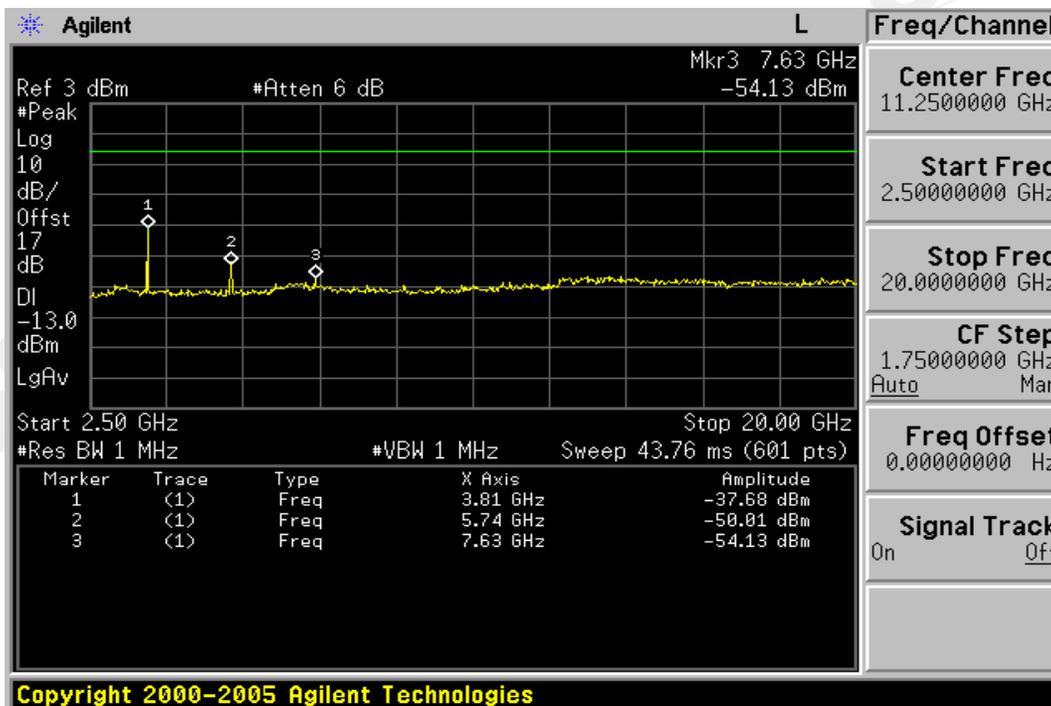
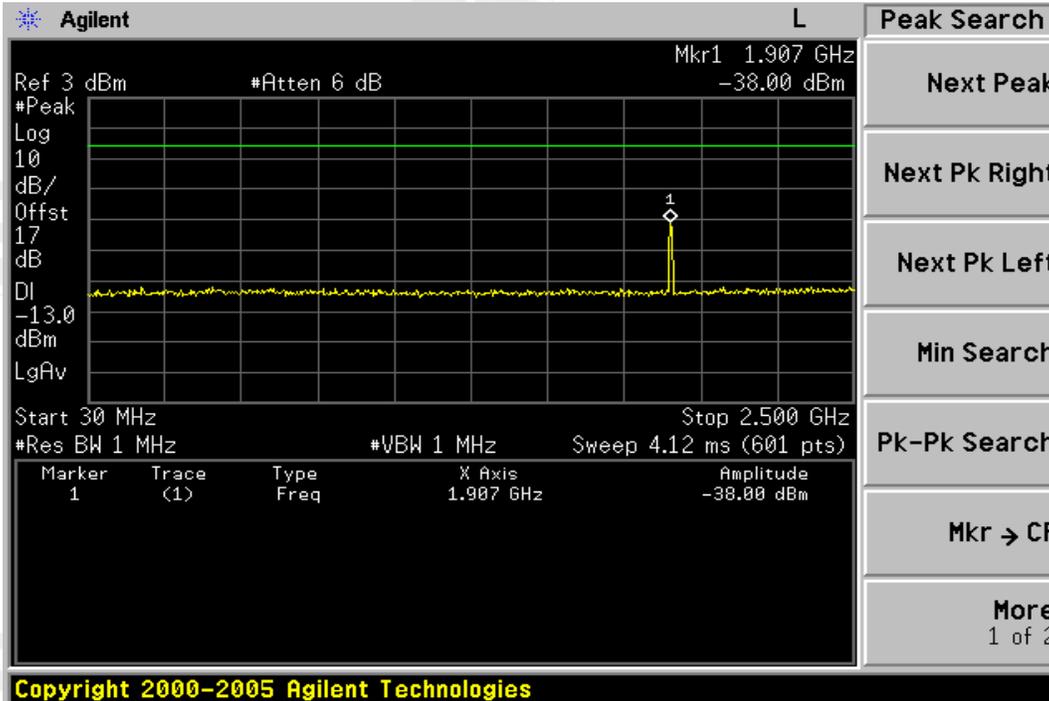
Figure 8-12: Out of Band emission at antenna terminals –WCDMA II Channel Mid



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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

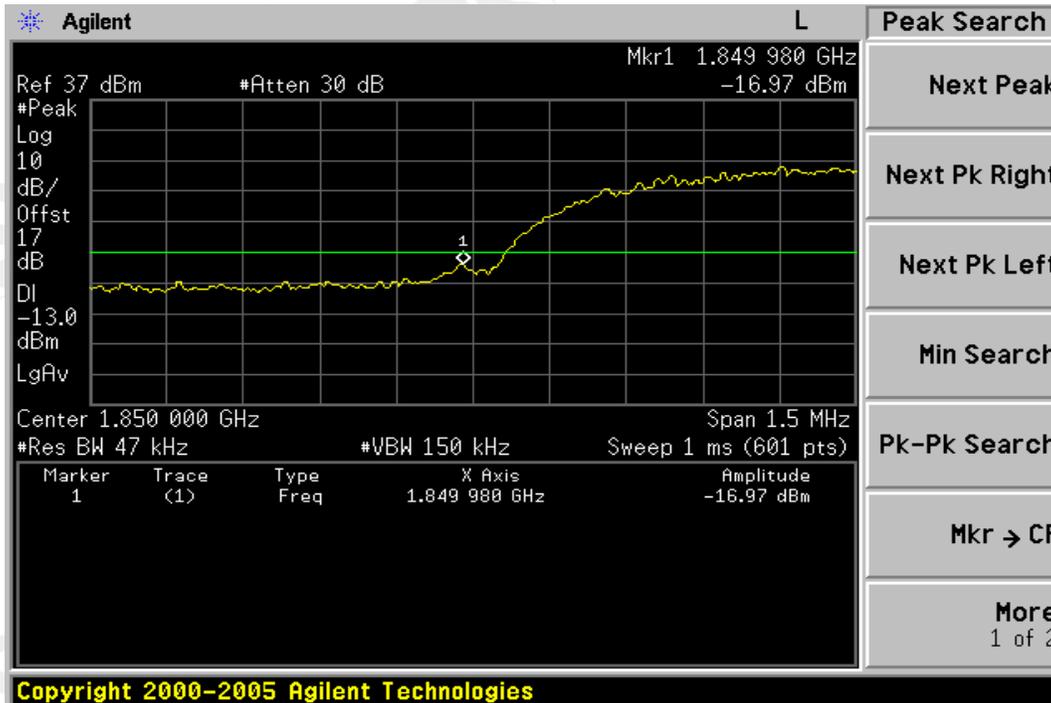
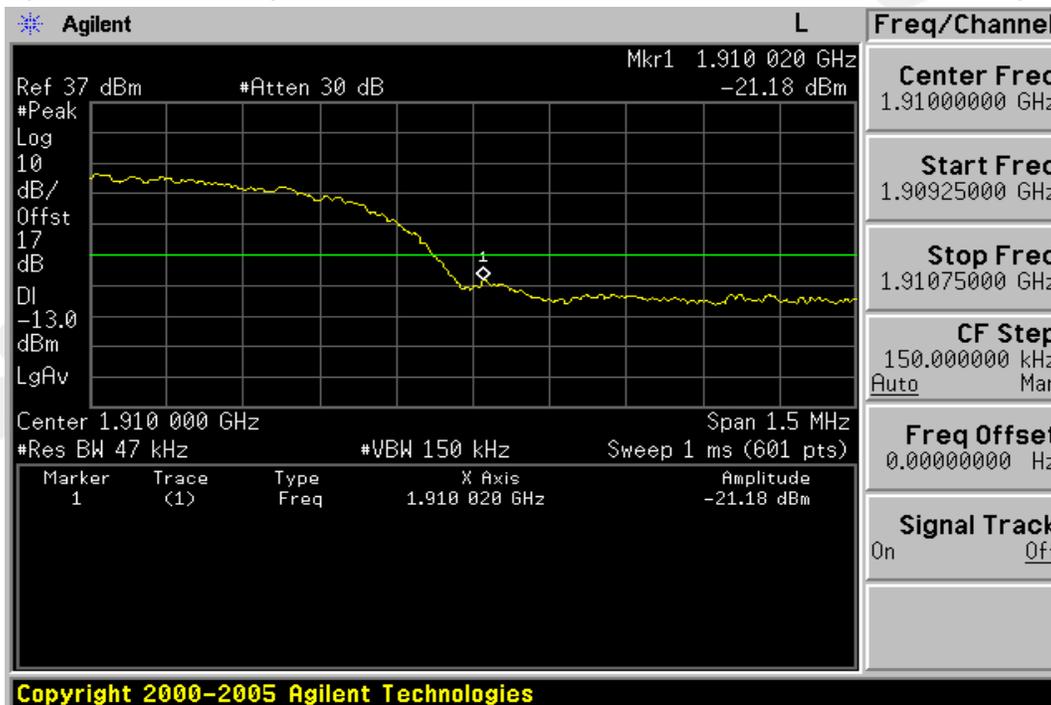


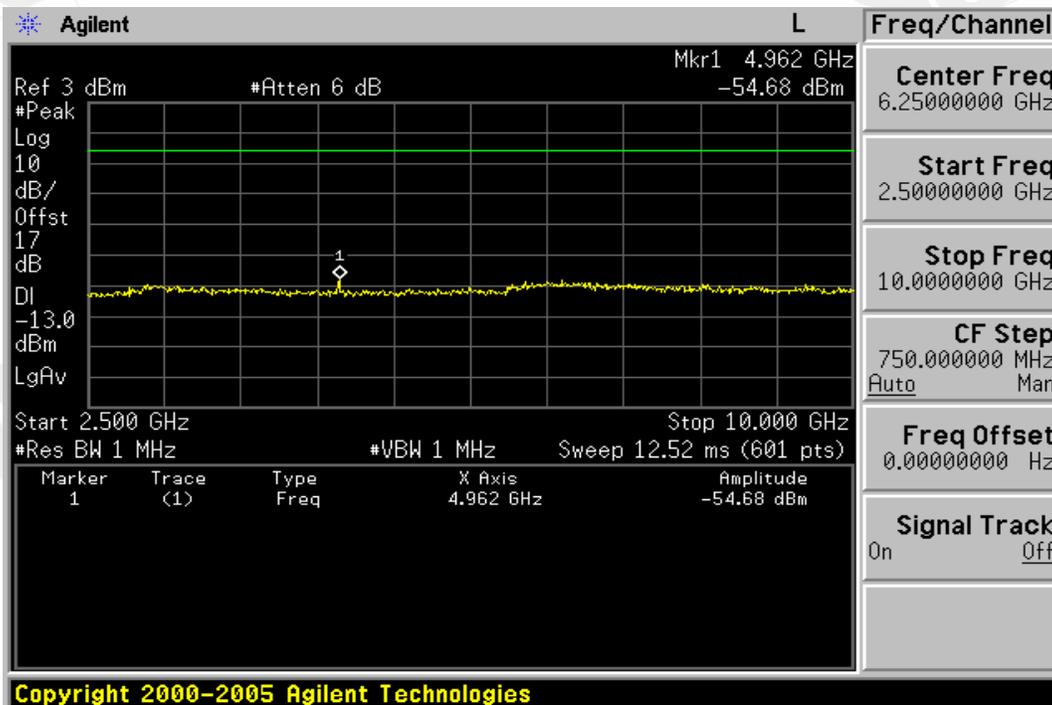
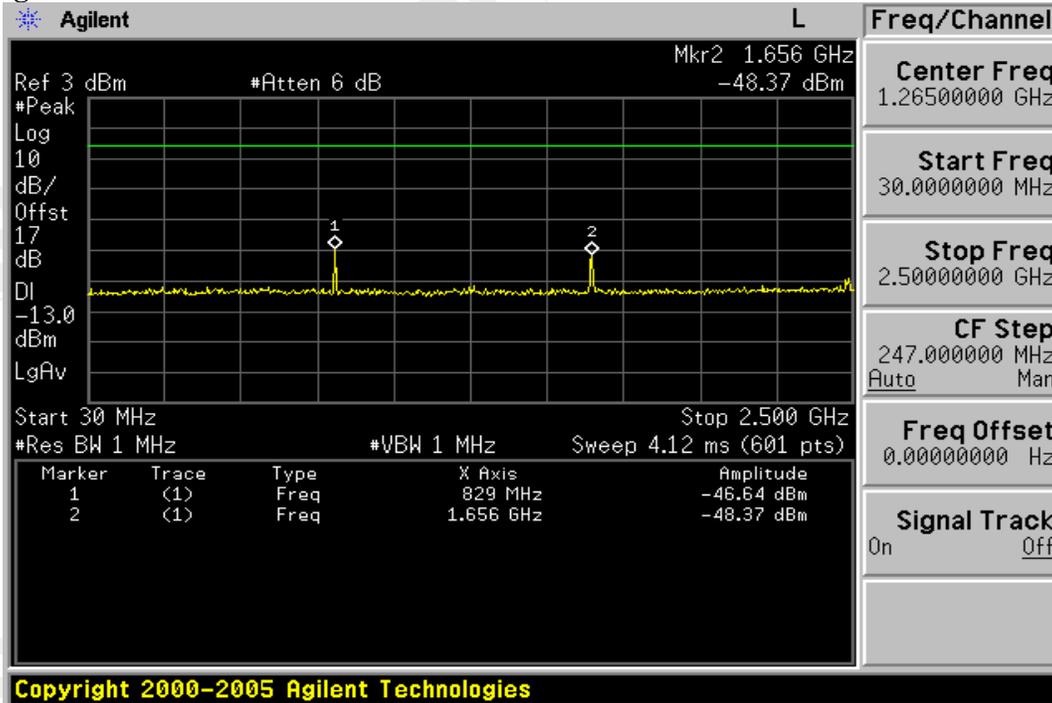
Figure 8-15: Band edge emission at antenna terminals –WCDMA II Channel Highest



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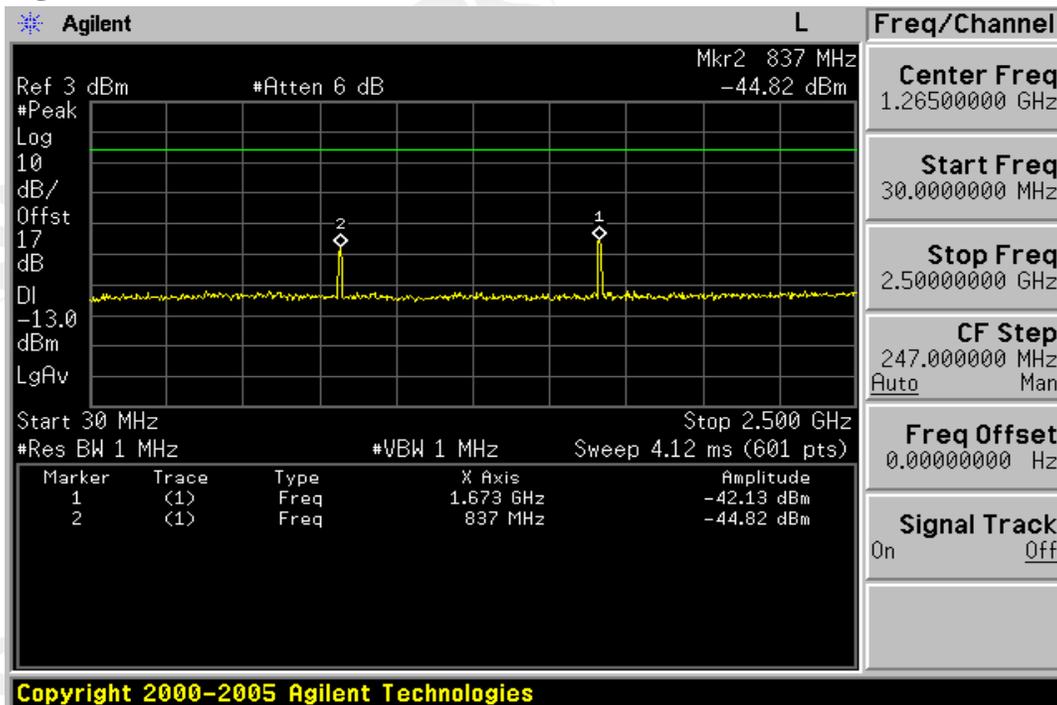
Figure 8-16: Out of Band emission at antenna terminals–WCDMA V Channel Lowest



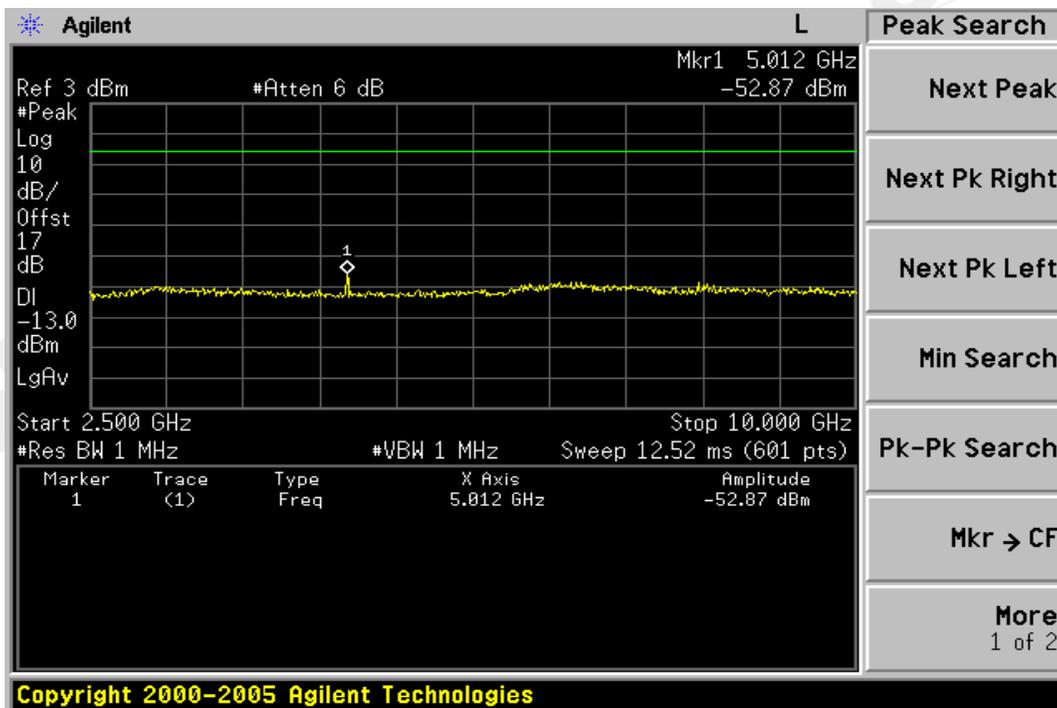
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Figure 8-17: Out of Band emission at antenna terminals –WCDMA V Channel Mid



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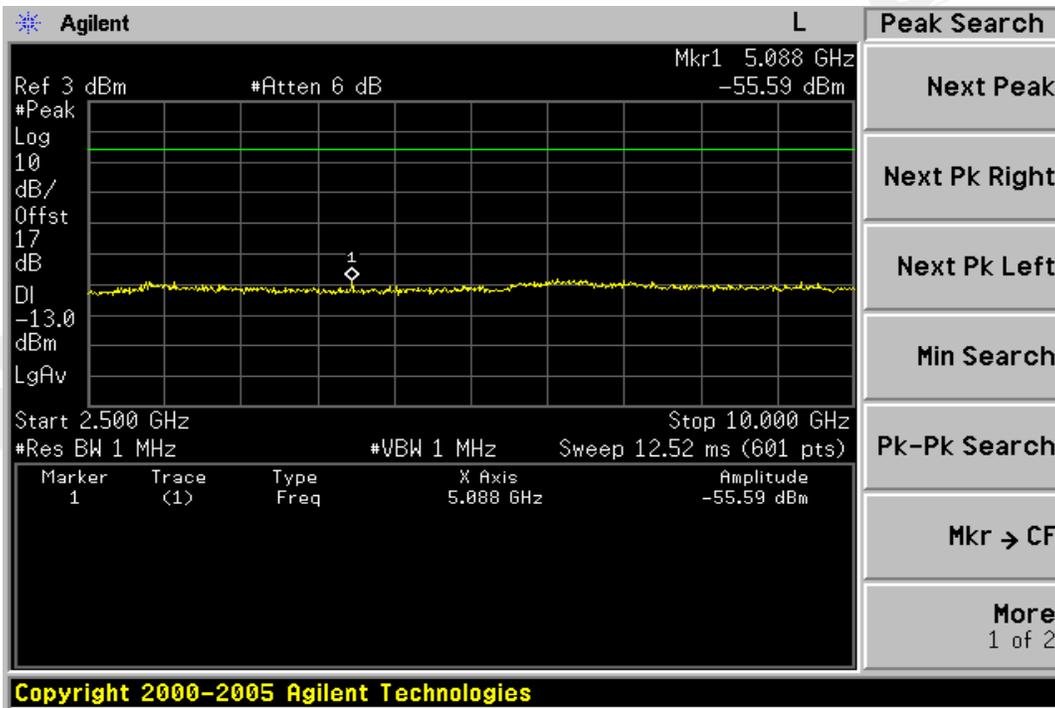
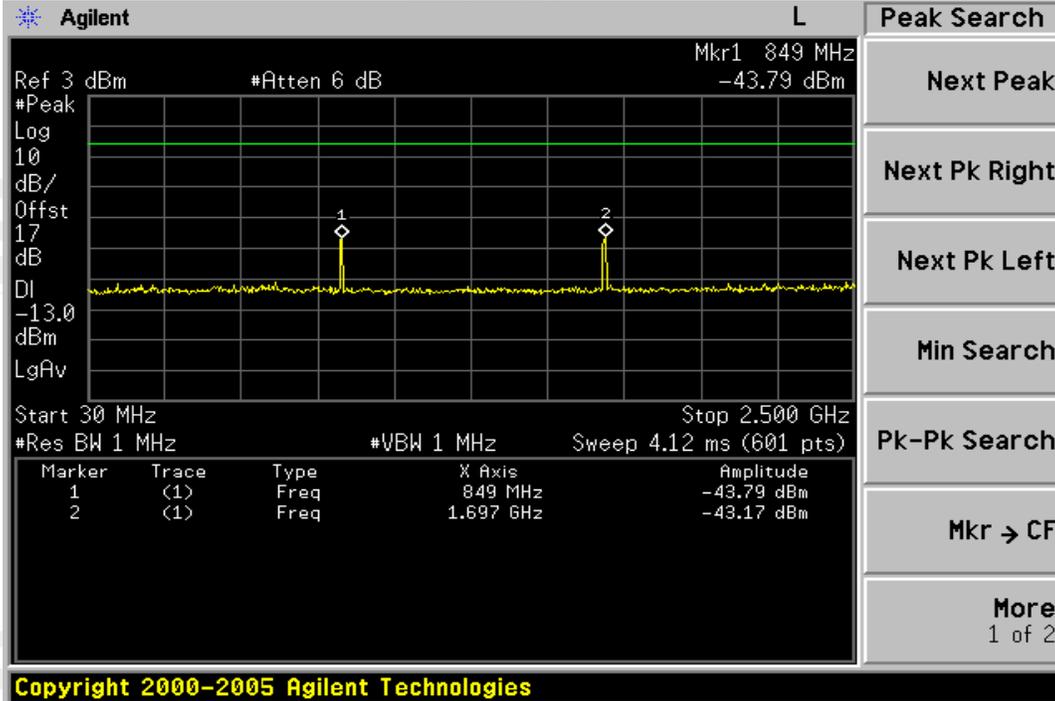


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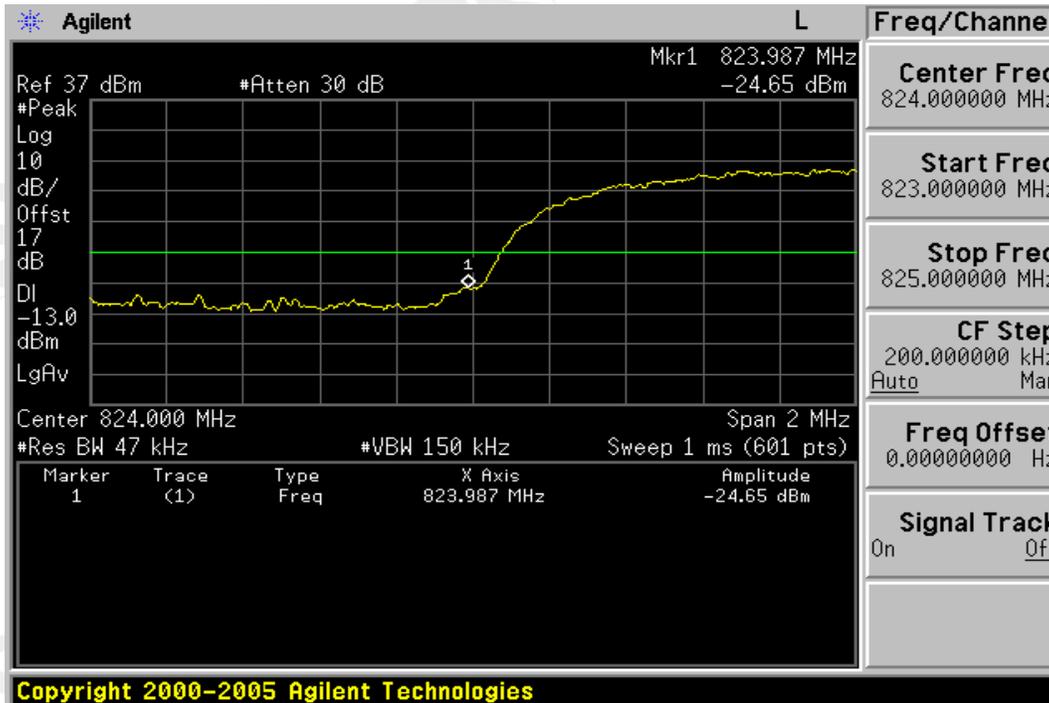
**Figure 8-18: Out of Band emission at antenna terminals–WCDMA V Channel Highest**



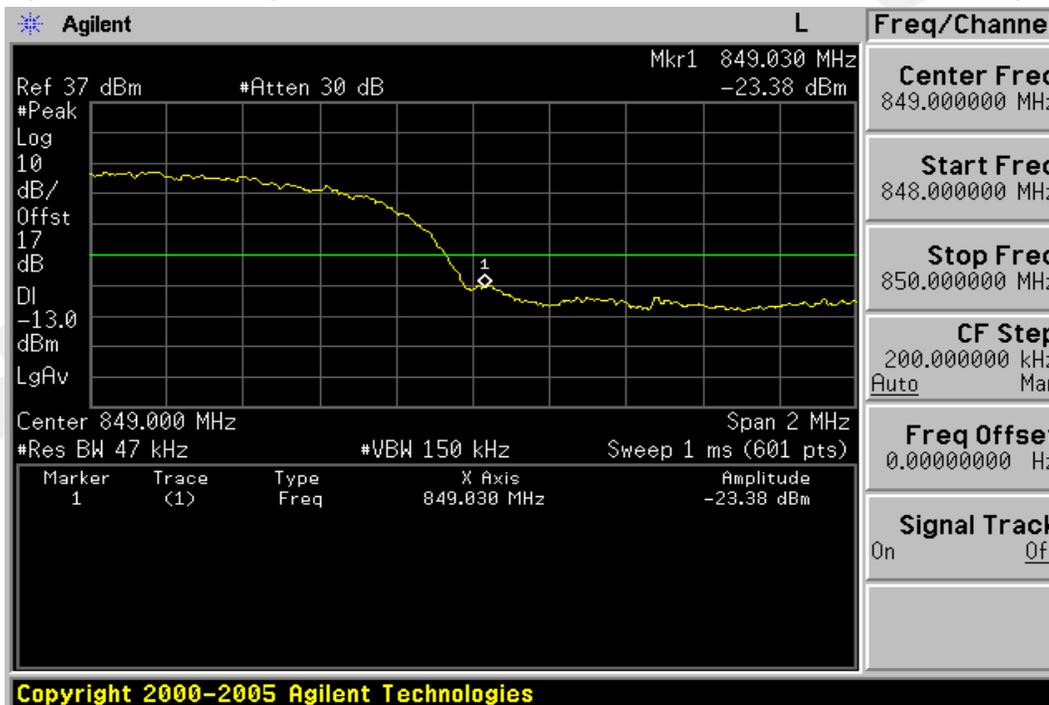
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**Figure 8-19: Bad edge emission at antenna terminals –WCDMA V Channel Lowest**



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



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## 9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

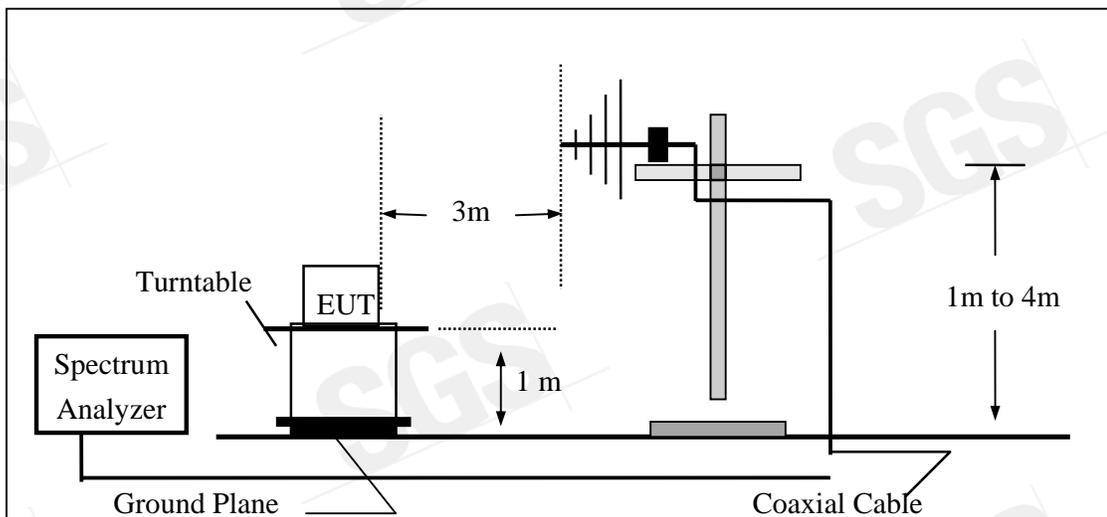
### 9.1. Standard Applicable

According to FCC §2.1053,

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

### 9.2. EUT Setup (Block Diagram of Configuration)

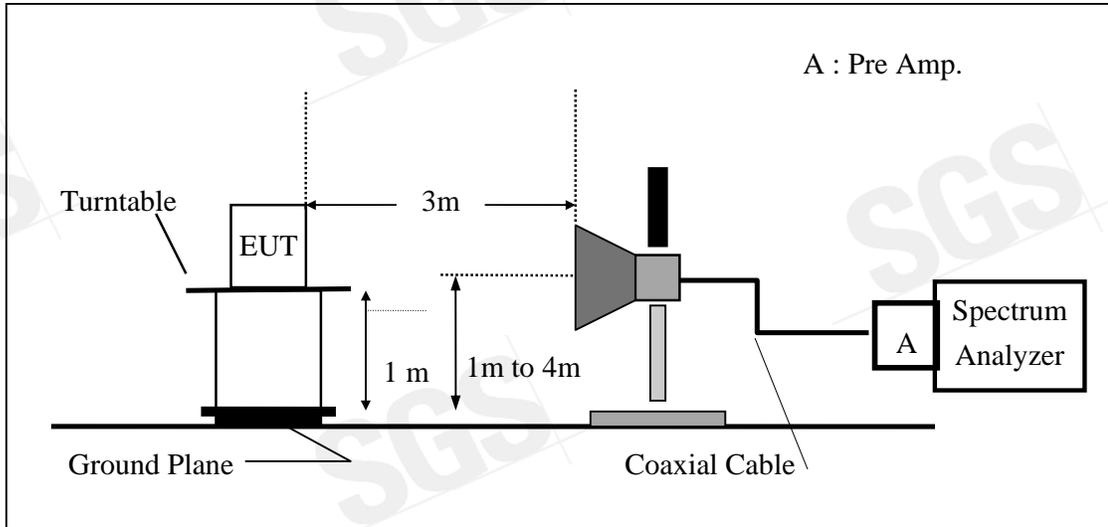
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



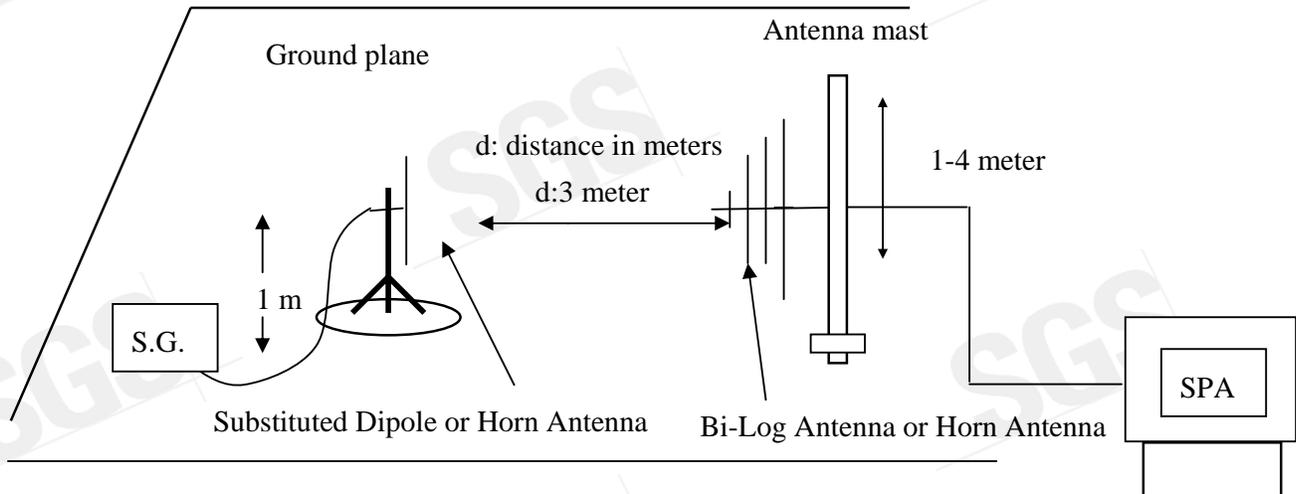
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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### 9.3. Measurement Procedure

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

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

When 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.

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

EIRP was measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

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

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

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**9.4. Measurement Equipment Used:**

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2008	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2008	06/10/2009
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2008	06/10/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

**9.5. Measurement Result**

Refer to attach tabular data sheets.

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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

Operation Mode	: TX CH Low E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 824.20 MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	44.80	V	-62.78	-0.58	0.91	-64.26	-13.00	-51.26
92.08	39.09	V	-65.16	-7.75	1.17	-74.09	-13.00	-61.09
153.19	32.52	V	-65.38	-7.80	1.47	-74.65	-13.00	-61.65
252.13	32.25	V	-68.40	-7.89	1.99	-78.28	-13.00	-65.28
426.73	36.10	V	-59.19	-7.68	2.49	-69.36	-13.00	-56.36
824.00	67.07	V	-20.26	-7.87	3.64	-31.78	-13.00	-18.78
1648.40	53.18	V	-53.86	9.29	5.06	-49.63	-13.00	-36.63
2472.60	71.97	V	-32.09	10.08	6.30	-28.32	-13.00	-15.32
3296.80	44.54	V	-58.04	12.17	7.26	-53.13	-13.00	-40.13
4121.00	40.85	V	-58.93	12.61	8.33	-54.64	-13.00	-41.64
4945.20	---	V		12.65	9.19		-13.00	
5769.40	---	V		13.55	9.80		-13.00	
6593.60	---	V		12.05	10.61		-13.00	
7417.80	---	V		11.49	11.28		-13.00	
8242.00	---	V		11.48	12.26		-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: GSM 850 Mode**

Operation Mode	: TX CH Low E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 824.20 MHz	Test By:	Jim
Temperature	: 25	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)
51.34	42.93	H	-64.72	-0.58	0.91	-66.21	-13.00	-53.21
75.59	39.09	H	-73.27	-1.85	1.05	-76.17	-13.00	-63.17
153.19	31.06	H	-67.73	-7.80	1.47	-77.00	-13.00	-64.00
276.38	31.73	H	-68.49	-7.91	1.99	-78.38	-13.00	-65.38
426.73	35.00	H	-60.84	-7.68	2.49	-71.01	-13.00	-58.01
824.00	78.47	H	-9.19	-7.87	3.64	-20.71	-13.00	-7.71
1648.40	54.82	H	-52.19	9.29	5.06	-47.96	-13.00	-34.96
2472.60	74.74	H	-29.32	10.08	6.30	-25.54	-13.00	-12.54
3296.80	42.65	H	-59.71	12.17	7.26	-54.80	-13.00	-41.80
4121.00	41.86	H	-57.79	12.61	8.33	-53.50	-13.00	-40.50
4945.20	---	H		12.65	9.19		-13.00	
5769.40	---	H		13.55	9.80		-13.00	
6593.60	---	H		12.05	10.61		-13.00	
7417.80	---	H		11.49	11.28		-13.00	
8242.00	---	H		11.48	12.26		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 836.60 MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	43.60	V	-63.98	-0.58	0.91	-65.46	-13.00	-52.46
92.08	39.27	V	-64.98	-7.75	1.17	-73.91	-13.00	-60.91
104.69	37.88	V	-65.25	-7.76	1.24	-74.25	-13.00	-61.25
286.08	33.44	V	-66.45	-7.91	1.99	-76.35	-13.00	-63.35
426.73	35.02	V	-60.27	-7.68	2.49	-70.44	-13.00	-57.44
1673.20	55.65	V	-51.38	9.36	5.10	-47.12	-13.00	-34.12
2509.80	74.80	V	-29.08	10.09	6.35	-25.34	-13.00	-12.34
3346.40	47.18	V	-55.38	12.28	7.29	-50.40	-13.00	-37.40
4183.00	44.01	V	-55.55	12.62	8.40	-51.33	-13.00	-38.33
5019.60	---	V		12.67	9.26		-13.00	
5856.20	---	V		13.68	9.85		-13.00	
6692.80	---	V		11.95	10.74		-13.00	
7529.40	---	V		11.45	11.35		-13.00	
8366.00	---	V		11.59	12.43		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

Operation Mode : TX CH Mid E2 Mode  
 Fundamental Frequency : 836.60 MHz  
 Temperature : 25  
 Humidity : 65%

Test Date: Jul. 04, 2008  
 Test By: Jim  
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	43.57	H	-64.08	-0.58	0.91	-65.57	-13.00	-52.57
75.59	39.30	H	-73.06	-1.85	1.05	-75.96	-13.00	-62.96
106.63	35.62	H	-66.97	-7.77	1.25	-75.98	-13.00	-62.98
426.73	35.90	H	-59.94	-7.68	2.49	-70.11	-13.00	-57.11
523.73	36.25	H	-56.87	-7.74	2.73	-67.34	-13.00	-54.34
1673.20	57.06	H	-49.94	9.36	5.10	-45.67	-13.00	-32.67
2509.80	71.63	H	-32.24	10.09	6.35	-28.50	-13.00	-15.50
3346.40	38.18	H	-64.14	12.28	7.29	-59.16	-13.00	-46.16
4183.00	43.15	H	-56.27	12.62	8.40	-52.04	-13.00	-39.04
5019.60	---	H		12.67	9.26		-13.00	
5856.20	---	H		13.68	9.85		-13.00	
6692.80	---	H		11.95	10.74		-13.00	
7529.40	---	H		11.45	11.35		-13.00	
8366.00	---	H		11.59	12.43		-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: GSM 850 Mode**

Operation Mode	: TX CH High E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 848.80 MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	45.08	V	-62.50	-0.58	0.91	-63.98	-13.00	-50.98
62.98	39.87	V	-71.58	-0.64	0.96	-73.19	-13.00	-60.19
92.08	39.10	V	-65.15	-7.75	1.17	-74.08	-13.00	-61.08
153.19	33.06	V	-64.84	-7.80	1.47	-74.11	-13.00	-61.11
426.73	34.44	V	-60.85	-7.68	2.49	-71.02	-13.00	-58.02
850.00	71.32	V	-15.39	-7.88	3.75	-27.02	-13.00	-14.02
1697.60	63.35	V	-43.67	9.44	5.14	-39.38	-13.00	-26.38
2546.40	79.20	V	-24.59	10.20	6.40	-20.79	-13.00	-7.79
3395.20	51.96	V	-50.58	12.38	7.33	-45.53	-13.00	-32.53
4244.00	47.05	V	-52.30	12.63	8.46	-48.13	-13.00	-35.13
5088.00	---	V		12.74	9.31		-13.00	
5092.80	---	V		12.74	9.32		-13.00	
5941.60	---	V		13.81	9.89		-13.00	
6790.40	---	V		11.86	10.87		-13.00	
7639.20	---	V		11.40	11.48		-13.00	
8488.00	---	V		11.70	12.59		-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: GSM 850 Mode**

Operation Mode	: TX CH High E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 848.80 MHz	Test By:	Jim
Temperature	: 25	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)
51.34	43.08	H	-64.57	-0.58	0.91	-66.06	-13.00	-53.06
75.59	38.72	H	-73.64	-1.85	1.05	-76.54	-13.00	-63.54
106.63	34.99	H	-67.60	-7.77	1.25	-76.61	-13.00	-63.61
225.94	32.43	H	-68.90	-7.87	1.78	-78.55	-13.00	-65.55
426.73	34.58	H	-61.26	-7.68	2.49	-71.43	-13.00	-58.43
850.00	81.69	H	-5.30	-7.88	3.75	-16.93	-13.00	-3.93
1697.60	63.18	H	-43.80	9.44	5.14	-39.51	-13.00	-26.51
2546.40	75.38	H	-28.40	10.20	6.40	-24.60	-13.00	-11.60
3395.20	40.71	H	-61.57	12.38	7.33	-56.52	-13.00	-43.52
4244.00	40.45	H	-58.74	12.63	8.46	-54.57	-13.00	-41.57
5088.00	---	H		12.74	9.31		-13.00	
5092.80	---	H		12.74	9.32		-13.00	
5941.60	---	H		13.81	9.89		-13.00	
6790.40	---	H		11.86	10.87		-13.00	
7639.20	---	H		11.40	11.48		-13.00	
8488.00	---	H		11.70	12.59		-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 H Mode  
 Fundamental Frequency : 1850.20MHz  
 Temperature : 25  
 Humidity : 65%

Test Date: Jul. 04, 2008  
 Test By: Jim  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant. Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	38.58	V	-64.55	-7.76	1.24	-73.55	-13.00	-60.55
153.19	31.85	V	-66.05	-7.80	1.47	-75.32	-13.00	-62.32
284.14	32.06	V	-67.88	-7.91	1.99	-77.77	-13.00	-64.77
376.29	32.06	V	-64.89	-7.65	2.44	-74.99	-13.00	-61.99
497.54	31.65	V	-62.96	-7.72	2.72	-73.40	-13.00	-60.40
1850.00	68.62	V	-38.34	9.90	5.41	-33.85	-13.00	-20.85
3700.40	47.00	V	-54.58	12.61	7.73	-49.70	-13.00	-36.70
5550.60	45.69	V	-49.52	13.23	9.68	-45.98	-13.00	-32.98
7400.80	---	V		11.50	11.28		-13.00	
9251.00	---	V		11.92	13.10		-13.00	
11101.20	---	V		11.66	14.33		-13.00	
12951.40	---	V		13.63	15.98		-13.00	
14801.60	---	V		12.76	17.27		-13.00	
16651.80	---	V		15.92	19.04		-13.00	
18502.00	---	V		18.75	21.21		-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 H Mode  
 Fundamental Frequency : 1850.20MHz  
 Temperature : 25  
 Humidity : 65%

Test Date: Jul. 04, 2008  
 Test By: Jim  
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant. Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
104.69	39.87	H	-62.90	-7.76	1.24	-71.90	-13.00	-58.90
143.49	31.40	H	-67.78	-7.79	1.43	-77.01	-13.00	-64.01
247.28	31.64	H	-69.31	-7.89	1.96	-79.16	-13.00	-66.16
381.14	32.05	H	-64.60	-7.65	2.44	-74.69	-13.00	-61.69
458.74	31.35	H	-63.79	-7.70	2.59	-74.08	-13.00	-61.08
1850.00	74.86	H	-32.03	9.90	5.41	-27.54	-13.00	-14.54
3700.40	58.82	H	-42.54	12.61	7.73	-37.66	-13.00	-24.66
5550.60	40.02	H	-55.11	13.23	9.68	-51.56	-13.00	-38.56
7400.80	---	H		11.50	11.28		-13.00	
9251.00	---	H		11.92	13.10		-13.00	
11101.20	---	H		11.66	14.33		-13.00	
12951.40	---	H		13.63	15.98		-13.00	
14801.60	---	H		12.76	17.27		-13.00	
16651.80	---	H		15.92	19.04		-13.00	
18502.00	---	H		18.75	21.21		-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 H Mode  
 Fundamental Frequency : 1880MHz  
 Temperature : 25  
 Humidity : 65%

Test Date: Jul. 04, 2008  
 Test By: Jim  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
62.98	39.81	V	-71.64	-0.64	0.96	-73.25	-13.00	-60.25
104.69	38.02	V	-65.11	-7.76	1.24	-74.11	-13.00	-61.11
153.19	32.32	V	-65.58	-7.80	1.47	-74.85	-13.00	-61.85
218.18	31.86	V	-69.73	-7.86	1.72	-79.31	-13.00	-66.31
407.33	31.64	V	-64.21	-7.67	2.43	-74.31	-13.00	-61.31
3760.00	44.66	V	-56.64	12.60	7.82	-51.86	-13.00	-38.86
5640.00	43.22	V	-51.74	13.36	9.73	-48.11	-13.00	-35.11
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-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 H Mode  
 Fundamental Frequency : 1880MHz  
 Temperature : 25  
 Humidity : 65%

Test Date: Jul. 04, 2008  
 Test By: Jim  
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	39.83	H	-67.82	-0.58	0.91	-69.31	-13.00	-56.31
104.69	39.64	H	-63.13	-7.76	1.24	-72.13	-13.00	-59.13
153.19	30.84	H	-67.95	-7.80	1.47	-77.22	-13.00	-64.22
318.09	32.58	H	-66.15	-7.82	2.16	-76.13	-13.00	-63.13
492.69	31.09	H	-63.02	-7.72	2.70	-73.44	-13.00	-60.44
3760.00	59.55	H	-41.56	12.60	7.82	-36.77	-13.00	-23.77
5640.00	43.95	H	-50.94	13.36	9.73	-47.31	-13.00	-34.31
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-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 High H Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 1909.8 MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
62.98	39.10	V	-72.35	-0.64	0.96	-73.96	-13.00	-60.96
104.69	37.17	V	-65.96	-7.76	1.24	-74.96	-13.00	-61.96
162.89	32.32	V	-66.45	-7.81	1.49	-75.75	-13.00	-62.75
218.18	32.19	V	-69.40	-7.86	1.72	-78.98	-13.00	-65.98
458.74	32.47	V	-62.15	-7.70	2.59	-72.44	-13.00	-59.44
1910.00	62.14	V	-44.80	10.08	5.51	-40.23	-13.00	-27.23
3981.60	43.33	V	-56.95	12.60	8.17	-52.53	-13.00	-39.53
5972.40	40.20	V	-53.82	13.86	9.91	-49.87	-13.00	-36.87
7963.20	---	V		11.27	11.88		-13.00	
9954.00	---	V		12.08	13.43		-13.00	
11944.80	---	V		13.08	15.21		-13.00	
13935.60	---	V		11.82	16.86		-13.00	
15926.40	---	V		17.08	18.33		-13.00	
17917.20	---	V		9.63	20.12		-13.00	
19908.00	---	V		18.88	20.85		-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 High H Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 1909.8 MHz	Test By:	Jim
Temperature	: 25	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)
51.34	39.92	H	-67.73	-0.58	0.91	-69.22	-13.00	-56.22
104.69	39.19	H	-63.58	-7.76	1.24	-72.58	-13.00	-59.58
158.04	39.69	H	-59.41	-7.81	1.48	-68.70	-13.00	-55.70
245.34	31.86	H	-69.12	-7.89	1.95	-78.96	-13.00	-65.96
415.09	31.54	H	-64.52	-7.67	2.46	-74.65	-13.00	-61.65
1910.00	72.86	H	-33.99	10.08	5.51	-29.43	-13.00	-16.43
3981.60	47.59	H	-52.59	12.60	8.17	-48.16	-13.00	-35.16
5972.40	45.12	H	-48.89	13.86	9.91	-44.94	-13.00	-31.94
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	
17917.20	---	H		9.63	20.12		-13.00	
19908.00	---	H		18.88	20.85		-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 E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 826.4 MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
65.89	32.59	V	-79.00	-0.83	1.12	-80.95	-13.00	-67.95
252.13	35.35	V	-64.47	-7.89	2.00	-74.36	-13.00	-61.36
327.79	32.91	V	-65.00	-7.76	2.28	-75.04	-13.00	-62.04
426.73	35.36	V	-59.30	-7.68	2.59	-69.57	-13.00	-56.57
654.68	34.05	V	-54.92	-7.81	3.17	-65.91	-13.00	-52.91
825.00	62.32	V	-24.06	-7.88	3.63	-35.56	-13.00	-22.56
1652.80	35.63	V	-68.95	9.30	5.23	-64.88	-13.00	-51.88
2479.20	---	V		10.07	6.54		-13.00	
3305.60	---	V		12.19	7.73		-13.00	
4132.00	---	V		12.62	8.87		-13.00	
4958.40	---	V		12.65	9.75		-13.00	
5784.80	---	V		13.58	10.55		-13.00	
6611.20	---	V		12.03	11.31		-13.00	
7437.60	---	V		11.48	12.12		-13.00	
8264.00	---	V		11.50	12.73		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: WCDMA V Mode**

Operation Mode	: TX CH Low E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 826.4 MHz	Test By:	Jim
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
65.89	33.70	H	-78.15	-0.83	1.12	-80.10	-13.00	-67.10
252.13	35.28	H	-63.87	-7.89	2.00	-73.76	-13.00	-60.76
327.79	32.98	H	-64.42	-7.76	2.28	-74.46	-13.00	-61.46
426.73	35.59	H	-59.48	-7.68	2.59	-69.75	-13.00	-56.75
654.68	33.93	H	-55.59	-7.81	3.17	-66.58	-13.00	-53.58
825.00	67.01	H	-19.26	-7.88	3.63	-30.76	-13.00	-17.76
1652.80	35.77	H	-68.63	9.30	5.23	-64.56	-13.00	-51.56
3305.60	---	H		12.19	7.73		-13.00	
4132.00	---	H		12.62	8.87		-13.00	
4958.40	---	H		12.65	9.75		-13.00	
5784.80	---	H		13.58	10.55		-13.00	
6611.20	---	H		12.03	11.31		-13.00	
7437.60	---	H		11.48	12.12		-13.00	
8264.00	---	H		11.50	12.73		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: WCDMA V Mode**

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 836.60 MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBUV)	Ant. Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
62.98	42.60	V	-68.85	-0.64	1.10	-70.59	-13.00	-57.59
150.28	39.96	V	-57.36	-7.80	1.59	-66.75	-13.00	-53.75
252.13	45.35	V	-54.47	-7.89	2.00	-64.36	-13.00	-51.36
327.79	39.55	V	-58.36	-7.76	2.28	-68.40	-13.00	-55.40
426.73	45.75	V	-48.91	-7.68	2.59	-59.18	-13.00	-46.18
1672.00	35.29	V	-69.27	9.36	5.27	-65.18	-13.00	-52.18
2508.00	---	V		10.08	6.58		-13.00	
3344.00	---	V		12.27	7.79		-13.00	
4180.00	---	V		12.62	8.93		-13.00	
5016.00	---	V		12.67	9.81		-13.00	
5852.00	---	V		13.68	10.62		-13.00	
6688.00	---	V		11.96	11.39		-13.00	
7524.00	---	V		11.45	12.20		-13.00	
8360.00	---	V		11.58	12.81		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: WCDMA V Mode**

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 836.60 MHz	Test By:	Jim
Temperature	: 25	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)
62.98	37.54	H	-73.99	-0.64	1.10	-75.73	-13.00	-62.73
225.94	41.53	H	-58.86	-7.87	1.86	-68.58	-13.00	-55.58
252.13	38.10	H	-61.05	-7.89	2.00	-70.94	-13.00	-57.94
426.73	34.13	H	-60.94	-7.68	2.59	-71.21	-13.00	-58.21
654.68	35.85	H	-53.67	-7.81	3.17	-64.66	-13.00	-51.66
1672.00	35.85	H	-68.53	9.36	5.27	-64.43	-13.00	-51.43
2508.00	---	H		10.08	6.58		-13.00	
3344.00	---	H		12.27	7.79		-13.00	
4180.00	---	H		12.62	8.93		-13.00	
5016.00	---	H		12.67	9.81		-13.00	
5852.00	---	H		13.68	10.62		-13.00	
6688.00	---	H		11.96	11.39		-13.00	
7524.00	---	H		11.45	12.20		-13.00	
8360.00	---	H		11.58	12.81		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: WCDMA V Mode**

Operation Mode	: TX CH High E2 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 846.6 MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
64.92	42.29	V	-69.26	-0.77	1.11	-71.14	-13.00	-58.14
150.28	39.60	V	-57.72	-7.80	1.59	-67.11	-13.00	-54.11
252.13	46.44	V	-53.38	-7.89	2.00	-63.27	-13.00	-50.27
426.73	46.21	V	-48.45	-7.68	2.59	-58.72	-13.00	-45.72
654.68	39.03	V	-49.94	-7.81	3.17	-60.93	-13.00	-47.93
850.00	66.40	V	-19.71	-7.88	3.68	-31.27	-13.00	-18.27
1693.20	35.30	V	-69.24	9.42	5.30	-65.12	-13.00	-52.12
2539.80	---	V		10.18	6.62		-13.00	
3386.40	---	V		12.36	7.85		-13.00	
4233.00	---	V		12.63	8.99		-13.00	
5079.60	---	V		12.73	9.87		-13.00	
5926.20	---	V		13.79	10.69		-13.00	
6772.80	---	V		11.87	11.47		-13.00	
7619.40	---	V		11.41	12.26		-13.00	
8466.00	---	V		11.68	12.89		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: WCDMA II Mode**

Operation Mode	: TX CH Low E1 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 1852.4MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	46.05	V	-61.53	-0.58	1.12	-63.23	-13.00	-50.23
62.98	39.81	V	-71.64	-0.64	1.10	-73.38	-13.00	-60.38
92.08	37.35	V	-65.58	-7.75	1.29	-74.62	-13.00	-61.62
153.19	32.70	V	-64.88	-7.80	1.60	-74.28	-13.00	-61.28
465.53	32.18	V	-61.82	-7.71	2.70	-72.22	-13.00	-59.22
1850.00	62.98	V	-41.41	9.90	5.56	-37.07	-13.00	-24.07
3704.80	37.85	V	-60.06	12.61	8.31	-55.77	-13.00	-42.77
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 E1 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 1852.4MHz	Test By:	Jim
Temperature	: 25	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)
51.34	41.13	H	-66.52	-0.58	1.12	-68.22	-13.00	-55.22
75.59	38.56	H	-73.80	-1.85	1.19	-76.84	-13.00	-63.84
104.69	35.80	H	-66.71	-7.76	1.38	-75.85	-13.00	-62.85
153.19	30.77	H	-67.25	-7.80	1.60	-76.65	-13.00	-63.65
468.44	31.41	H	-62.32	-7.71	2.71	-72.74	-13.00	-59.74
1850.00	60.65	H	-43.53	9.90	5.56	-39.19	-13.00	-26.19
3704.80	44.14	H	-53.88	12.61	8.31	-49.59	-13.00	-36.59
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 E1 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 1880MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	46.88	V	-60.70	-0.58	1.12	-62.40	-13.00	-49.40
90.14	38.14	V	-65.04	-7.75	1.27	-74.06	-13.00	-61.06
153.19	32.39	V	-65.19	-7.80	1.60	-74.59	-13.00	-61.59
349.13	31.98	V	-65.66	-7.64	2.36	-75.66	-13.00	-62.66
594.54	32.25	V	-57.64	-7.79	3.02	-68.45	-13.00	-55.45
916.58	32.25	V	-52.46	-7.97	3.82	-64.24	-13.00	-51.24
3760.00	40.99	V	-56.67	12.60	8.39	-52.45	-13.00	-39.45
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 E1 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 1880MHz	Test By:	Jim
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	42.71	H	-64.94	-0.58	1.12	-66.64	-13.00	-53.64
75.59	37.18	H	-75.18	-1.85	1.19	-78.22	-13.00	-65.22
104.69	35.36	H	-67.15	-7.76	1.38	-76.29	-13.00	-63.29
182.29	31.49	H	-68.79	-7.83	1.67	-78.28	-13.00	-65.28
453.89	31.32	H	-62.54	-7.70	2.67	-72.91	-13.00	-59.91
766.23	32.46	H	-61.07	-7.87	3.50	-72.44	-13.00	-59.44
3760.00	44.18	H	-53.59	12.60	8.39	-49.38	-13.00	-36.38
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  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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**Radiated Spurious Emission Measurement Result: WCDMA II Mode**

Operation Mode	: TX CH High E1 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 1907.6 MHz	Test By:	Jim
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	45.88	V	-61.70	-0.58	1.12	-63.40	-13.00	-50.40
90.14	37.50	V	-65.68	-7.75	1.27	-74.70	-13.00	-61.70
104.69	36.23	V	-65.26	-7.76	1.38	-74.40	-13.00	-61.40
412.18	32.13	V	-62.99	-7.67	2.55	-73.20	-13.00	-60.20
638.19	32.33	V	-56.74	-7.81	3.13	-67.68	-13.00	-54.68
1910.00	61.63	V	-42.70	10.08	5.66	-38.28	-13.00	-25.28
3815.20	45.15	V	-52.26	12.60	8.46	-48.12	-13.00	-35.12
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 II Mode**

Operation Mode	: TX CH High E1 Mode	Test Date:	Jul. 04, 2008
Fundamental Frequency	: 1907.6 MHz	Test By:	Jim
Temperature	: 25	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)
51.34	41.23	H	-66.42	-0.58	1.12	-68.12	-13.00	-55.12
75.59	38.04	H	-74.32	-1.85	1.19	-77.36	-13.00	-64.36
104.69	36.05	H	-66.46	-7.76	1.38	-75.60	-13.00	-62.60
313.24	31.65	H	-65.89	-7.85	2.22	-75.95	-13.00	-62.95
518.88	31.65	H	-61.15	-7.74	2.86	-71.74	-13.00	-58.74
1910.00	57.82	H	-46.29	10.08	5.66	-41.87	-13.00	-28.87
3815.20	49.40	H	-48.13	12.60	8.46	-43.99	-13.00	-30.99
5722.80	---	H		13.48	10.49		-13.00	
7630.40	---	H		11.41	12.27		-13.00	
9538.00	---	H		11.95	13.73		-13.00	
11445.60	---	H		12.15	15.42		-13.00	
13353.20	---	H		13.00	16.81		-13.00	
15260.80	---	H		14.91	18.28		-13.00	
17168.40	---	H		14.53	19.50		-13.00	
19076.00	---	H		18.65	20.76		-13.00	

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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## 10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

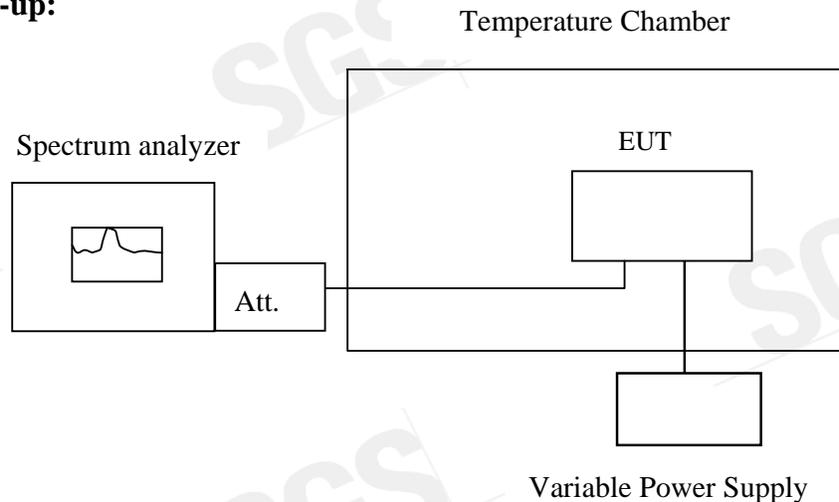
### 10.1. Standard Applicable

According to FCC §2.1055(a)(1)(b).

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

+/-2.5 ppm for 1900MHz band

### 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 re-recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

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**10.4. Measurement Equipment Used:**

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2008	01/04/2009
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2008	07/06/2009
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2008	07/06/2009
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
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	51728	07/05/2008	07/04/2009

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### 10.5. Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4	-30	836.600002	-8.00	2091
4	-20	836.600004	-10.00	2091
4	-10	836.600003	-9.00	2091
4	0	836.599999	-5.00	2091
4	10	836.599998	-4.00	2091
4	20	836.599994	0.00	2091
4	30	836.599995	-1.00	2091
4	40	836.599994	0.00	2091
4	50	836.599997	-3.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4	-30	1879.999943	40.00	4700
4	-20	1879.999995	-12.00	4700
4	-10	1879.999996	-13.00	4700
4	0	1879.999988	-5.00	4700
4	10	1879.999989	-6.00	4700
4	20	1879.999983	0.00	4700
4	30	1879.999943	40.00	4700
4	40	1879.999954	29.00	4700
4	50	1879.999951	32.00	4700

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Reference Frequency: WCDMA V Mid Channel 836.6 MHz @ 25				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4	-30	836.599996	2.00	2091
4	-20	836.599997	1.00	2091
4	-10	836.599995	3.00	2091
4	0	836.599997	1.00	2091
4	10	836.599999	-1.00	2091
4	20	836.599998	0.00	2091
4	30	836.600001	-3.00	2091
4	40	836.600001	-3.00	2091
4	50	836.600002	-4.00	2091

Reference Frequency: WCDMA II Mid Channel 1880 MHz @ 25				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4	-30	1880.000003	-1.00	4700
4	-20	1880.000003	-1.00	4700
4	-10	1880.000004	-2.00	4700
4	0	1879.999999	3.00	4700
4	10	1879.999998	4.00	4700
4	20	1880.000002	0.00	4700
4	30	1880.000002	0.00	4700
4	40	1880.000003	-1.00	4700
4	50	1880.000005	-3.00	4700

**Note: The battery is rated 4V dc.**

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## 11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

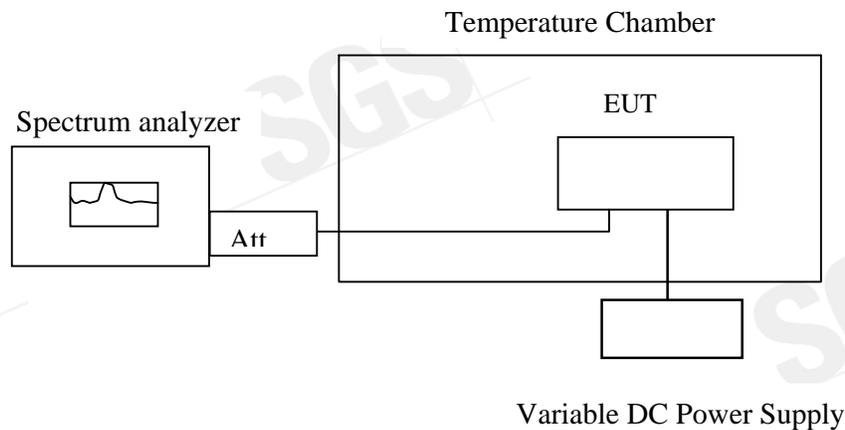
### 11.1. Standard Applicable

According to FCC §2.1055(d)(1)(2)

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

+/- 2.5ppm for 1900MHz band

### 11.2. Test Set-up:



*Note: Measurement setup for testing on Antenna connector*

### 11.3. Measurement Procedure

Set chamber temperature to 25 . 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.

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**11.4. Measurement Equipment Used:**

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2008	01/04/2009
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2008	07/06/2009
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2008	07/06/2009
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
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	51728	07/05/2008	07/04/2009

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### 11.5. Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.00	25.00	836.599994	0.00	2091
4.20	25.00	836.599996	-2.00	2091
3.70	25.00	836.599995	-1.00	2091
3.4 (End Point)	25.00	836.599991	3.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.00	25	1879.999973	0.00	4700
4.20	25	1879.999986	-13.00	4700
3.70	25	1879.999984	-11.00	4700
3.4 (End Point)	25	1879.999979	-6.00	4700

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Reference Frequency: WCDMA V Mid Channel 836.6 MHz @ 25				
Limit: +/- 2.5 ppm =2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.00	25.00	836.599995	0.00	2091
4.20	25.00	836.599997	-2.00	2091
3.70	25.00	836.599996	-1.00	2091
3.4 (End Point)	25.00	836.599995	0.00	2091

Reference Frequency: WCDMA II Mid Channel 1880 MHz @ 25				
Limit: +/- 2.5 ppm =4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.20	25	1879.999996	0.00	4700
4.20	25	1879.999997	-1.00	4700
3.70	25	1879.999999	-3.00	4700
3.4 (End Point)	25	1879.999995	1.00	4700

**Note: The battery is rated 4V dc.**

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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.

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**12.4. Measurement Equipment Used:**

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/02/2007	09/03/2008
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2008	06/08/2009
Transient Limiter	HP	11947A	3107A02062	09/02/2007	09/03/2008
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2007	12/30/2008
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2007	12/23/2008
LISN	FCC	50/250-25-2-01	04034	01/24/2008	01/23/2009
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2007	12/23/2008

**12.5. Measurement Result:**

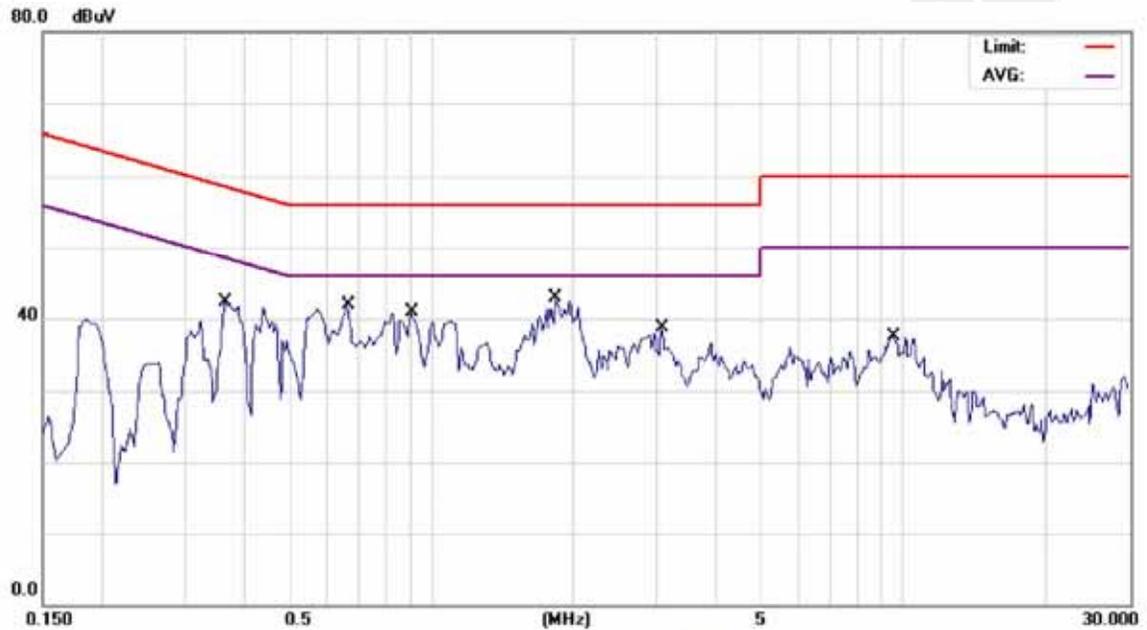
Please refer to next page for detail

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK + AC Adapter		Test Date:	Jul. 04, 2008	
Temperature:	23	Humidity:	59 %	Test By:	Jim

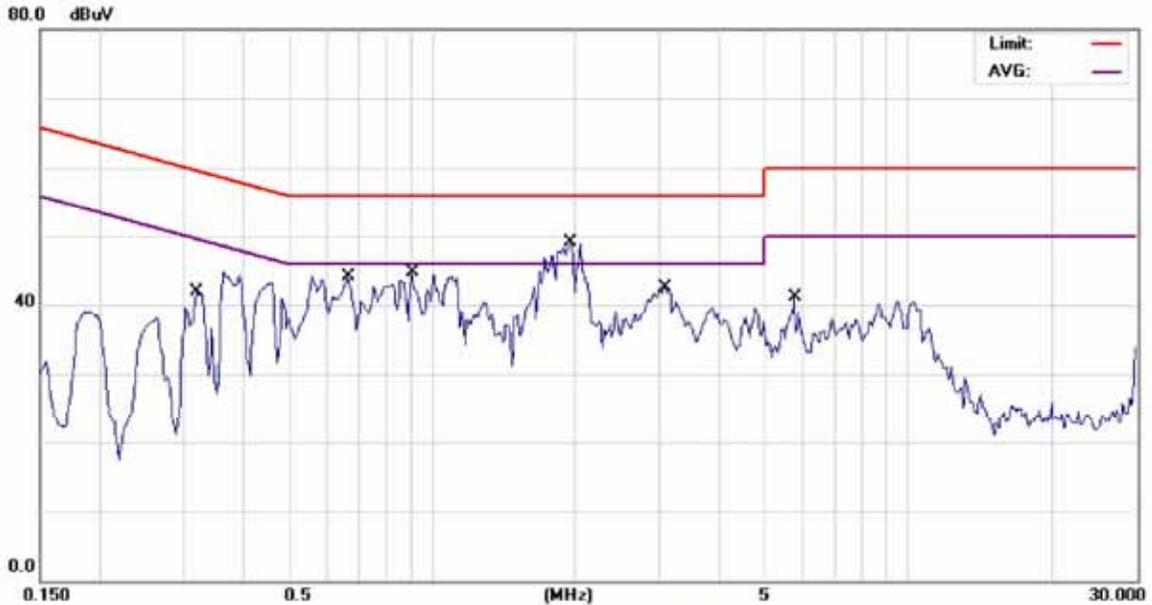


Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	23 °C
Limit:	CISPR22/11 Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60 %
EUT:	WCDMA/GPRS Dual Band Mobile Phone	Distance:		Air Pressure:	hpa
M/N:	F188				
Note:	GSM 850 LINK				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3650	42.29	0.07	42.36	58.61	-16.25	QP	
2		0.6650	41.81	0.02	41.83	56.00	-14.17	QP	
3		0.9050	40.87	0.01	40.88	56.00	-15.12	QP	
4	*	1.8350	42.83	0.01	42.84	56.00	-13.16	QP	
5		3.0800	38.79	0.01	38.80	56.00	-17.20	QP	
6		9.5800	37.43	0.14	37.57	60.00	-22.43	QP	

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Site: SGS CONDUCTED #1  
 Limit: CISPR22/11 Class B Conduction(QP)  
 EUT: WCDMA/GPRS Dual Band Mobile Phone  
 M/N: F188  
 Note: GSM 850 LINK

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

Temperature: 23 °C  
 Humidity: 60 %  
 Air Pressure: hpa

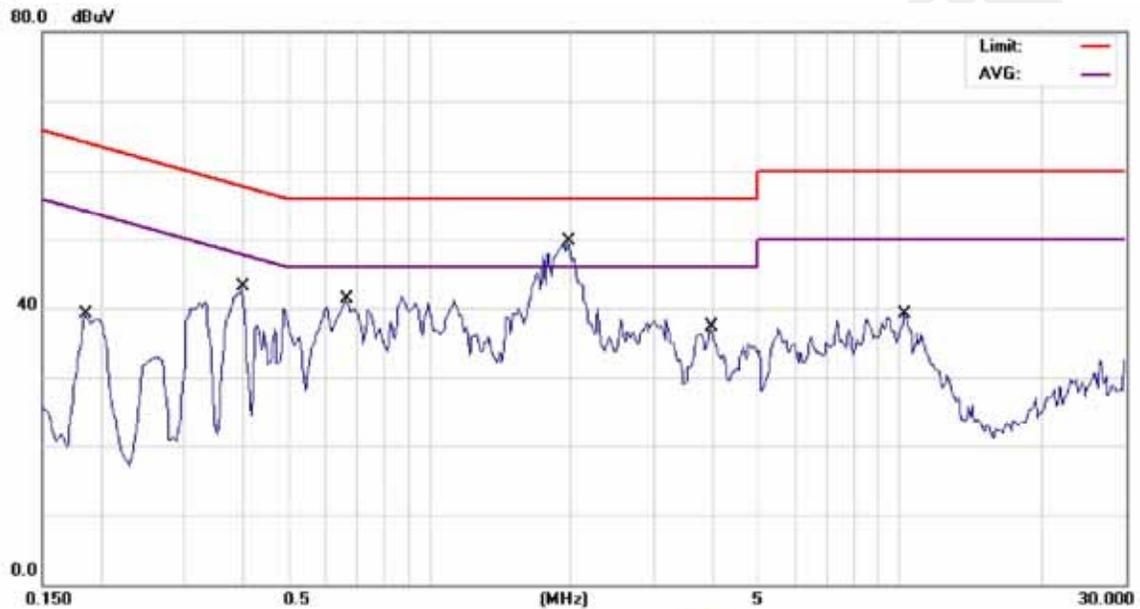
No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3200	41.77	0.08	41.85	59.71	-17.86	QP	
2		0.6650	44.12	0.02	44.14	56.00	-11.86	QP	
3	*	0.9050	44.69	0.01	44.70	56.00	-11.30	QP	
4		1.9550	42.40	0.01	42.41	56.00	-13.59	QP	
5		1.9550	25.30	0.01	25.31	46.00	-20.69	AVG	
6		3.0800	42.53	0.01	42.54	56.00	-13.46	QP	
7		5.7800	40.96	0.06	41.02	60.00	-18.98	QP	

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900LINK + AC Adapter		Test Date:	Jul. 04, 2008	
Temperature:	23	Humidity:	59 %	Test By:	Jim

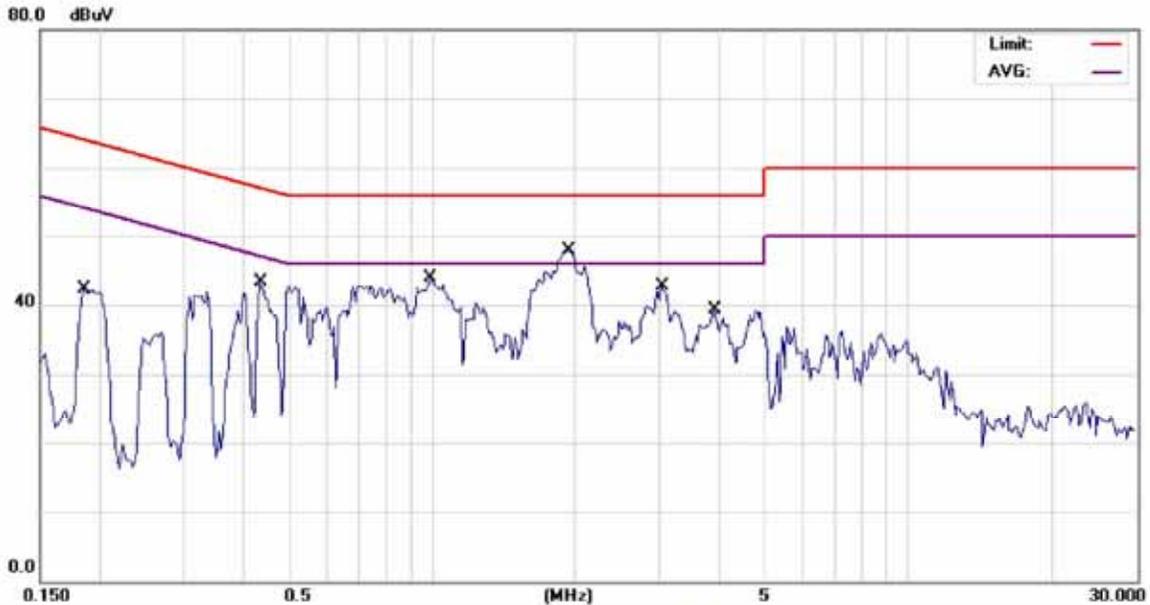


Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	23 °C
Limit:	CISPR22/11 Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60 %
EUT:	WCDMA/GPRS Dual Band Mobile Phone	Distance:		Air Pressure:	hpa
M/N:	F188				
Note:	GSM 1900 LINK				

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over	Detector	Comment
		MHz	dBuV	dB	ment	dBuV	dB		
1		0.1850	38.85	0.22	39.07	64.26	-25.19	QP	
2		0.4000	43.11	0.08	43.19	57.85	-14.66	QP	
3		0.6650	41.21	0.04	41.25	56.00	-14.75	QP	
4	*	1.9700	45.10	0.03	45.13	56.00	-10.87	QP	
5		1.9700	30.40	0.03	30.43	46.00	-15.57	AVG	
6		3.9650	37.21	0.04	37.25	56.00	-18.75	QP	
7		10.2800	38.90	0.19	39.09	60.00	-20.91	QP	

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Site SGS CONDUCTED #1 Phase: **N** Temperature: 23 °C  
 Limit: CISPR22/11 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %  
 EUT: WCDMA/GPRS Dual Band Mobile Phone Distance: Air Pressure: hpa  
 M/N: F188  
 Note: GSM 1900 LINK

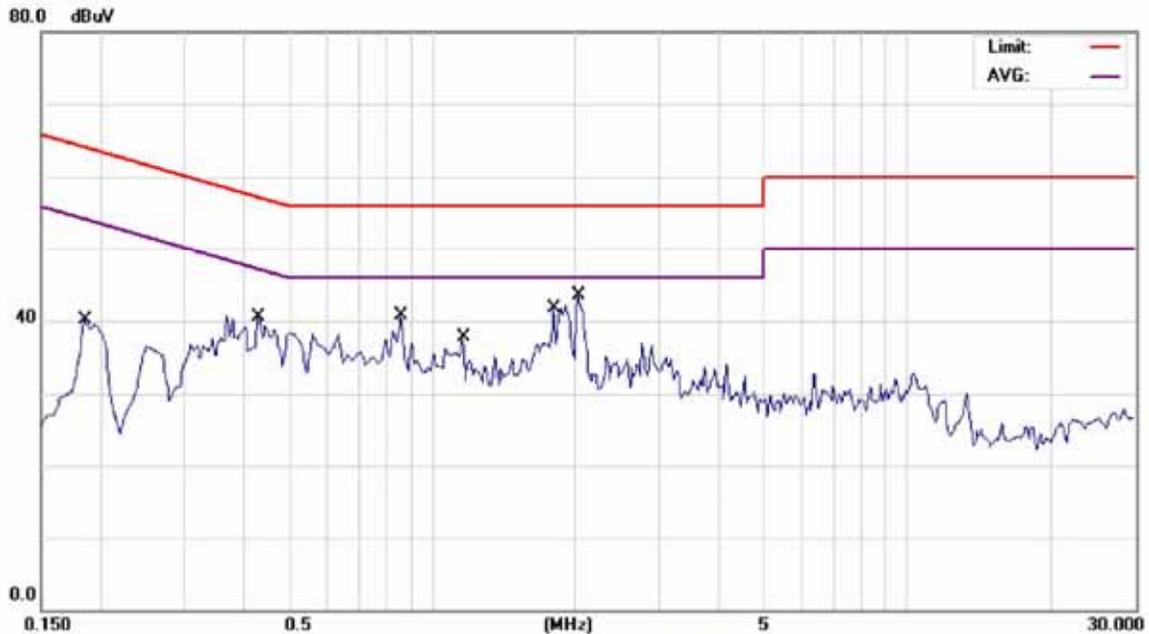
No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1852	42.07	0.22	42.29	64.25	-21.96	QP	
2		0.4352	43.16	0.07	43.23	57.15	-13.92	QP	
3	*	0.9922	43.96	0.03	43.99	56.00	-12.01	QP	
4		1.9297	42.90	0.03	42.93	56.00	-13.07	QP	
5		1.9297	27.80	0.03	27.83	46.00	-18.17	AVG	
6		3.0391	42.62	0.04	42.66	56.00	-13.34	QP	
7		3.9102	39.25	0.04	39.29	56.00	-16.71	QP	

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMA II Link + AC Adapter			Test Date:	Jul. 04, 2008
Temperature:	23	Humidity:	59 %	Test By:	Jim



Site: SGS CONDUCTED #1  
 Limit: CISPR22/11 Class B Conduction(QP)  
 EUT: WCDMA/GPRS Dual Band Mobile Phone  
 M/N: F188  
 Note: WCDMA B2 LINK

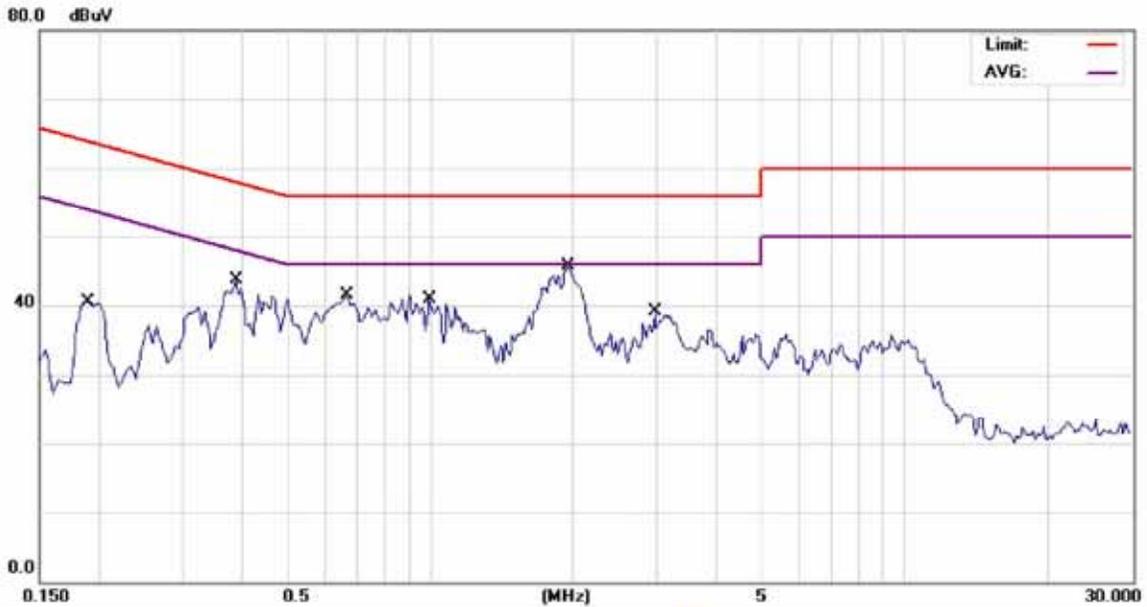
Phase: L1  
 Power: AC 120V/60Hz  
 Distance:

Temperature: 23 °C  
 Humidity: 60 %  
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1850	39.65	0.54	40.19	64.26	-24.07	QP	
2		0.4300	40.46	0.05	40.51	57.25	-16.74	QP	
3		0.8600	40.68	0.02	40.70	56.00	-15.30	QP	
4		1.1600	37.78	0.01	37.79	56.00	-18.21	QP	
5		1.8050	41.79	0.01	41.80	56.00	-14.20	QP	
6	*	2.0300	43.42	0.01	43.43	56.00	-12.57	QP	

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Site SGS CONDUCTED #1  
 Limit: CISPR22/11 Class B Conduction(QP)  
 EUT: WCDMA/GPRS Dual Band Mobile Phone  
 M/N: F188  
 Note: WCDMA B2 LINK

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

Temperature: 23 °C  
 Humidity: 60 %  
 Air Pressure: hpa

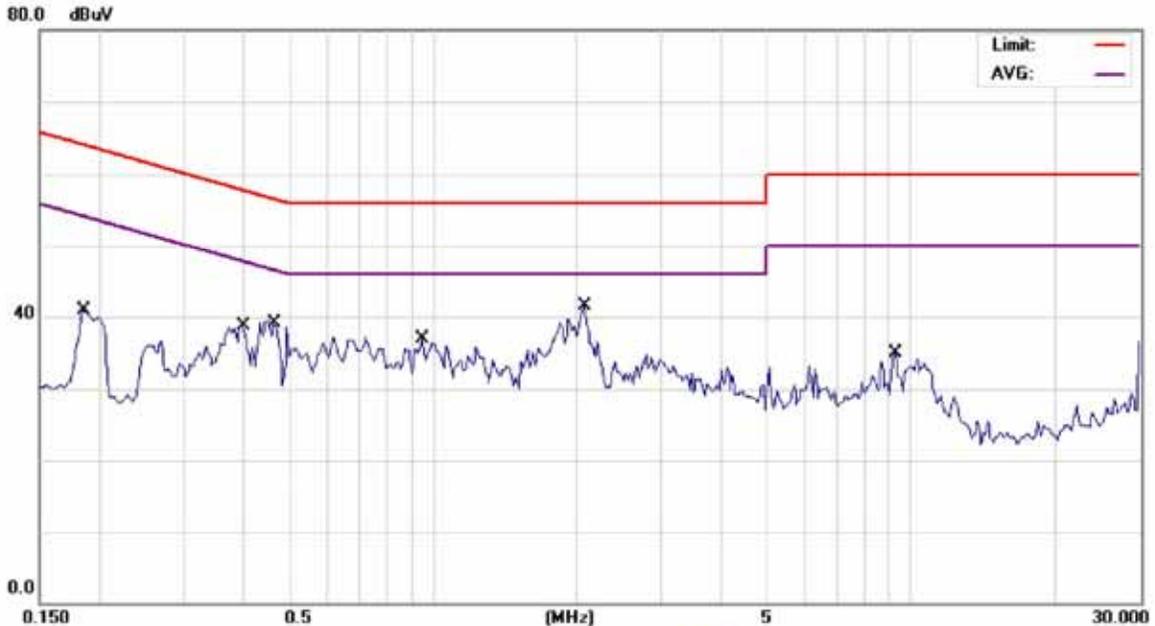
No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1900	40.32	0.17	40.49	64.04	-23.55	QP	
2	*	0.3900	43.59	0.06	43.65	58.06	-14.41	QP	
3		0.6650	41.55	0.02	41.57	56.00	-14.43	QP	
4		0.9950	40.99	0.01	41.00	56.00	-15.00	QP	
5		1.9400	39.80	0.01	39.81	56.00	-16.19	QP	
6		1.9400	28.70	0.01	28.71	46.00	-17.29	AVG	
7		2.9900	39.12	0.01	39.13	56.00	-16.87	QP	

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMA V Link + AC Adapter		Test Date:	Jul. 04, 2008	
Temperature:	23	Humidity:	59 %	Test By:	Jim

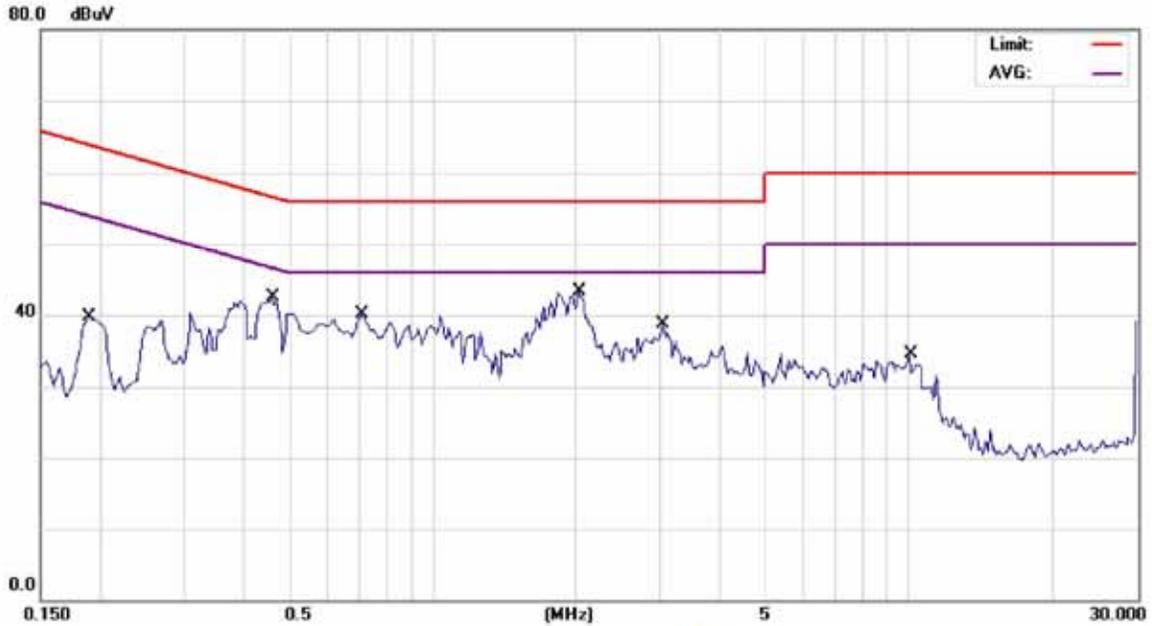


Site SGS CONDUCTED #1 Phase: **L1** Temperature: 23 °C  
 Limit: CISPR22/11 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %  
 EUT: WCDMA/GPRS Dual Band Mobile Phone Distance: Air Pressure: hpa  
 M/N: F188  
 Note: WCDMA B5 LINK

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1850	40.38	0.54	40.92	64.26	-23.34	QP	
2		0.4000	38.66	0.06	38.72	57.85	-19.13	QP	
3		0.4650	38.98	0.04	39.02	56.60	-17.58	QP	
4		0.9500	36.94	0.01	36.95	56.00	-19.05	QP	
5	*	2.0750	41.55	0.01	41.56	56.00	-14.44	QP	
6		9.3000	34.85	0.14	34.99	60.00	-25.01	QP	

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Site: SGS CONDUCTED #1  
 Limit: CISPR22/11 Class B Conduction(QP)  
 EUT: WCDMA/GPRS Dual Band Mobile Phone  
 M/N: F188  
 Note: WCDMA B5 LINK

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

Temperature: 23 °C  
 Humidity: 60 %  
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1900	39.34	0.40	39.74	64.04	-24.30	QP	
2		0.4600	42.46	0.04	42.50	56.69	-14.19	QP	
3		0.7100	40.12	0.02	40.14	56.00	-15.86	QP	
4	*	2.0300	43.32	0.01	43.33	56.00	-12.67	QP	
5		3.0500	38.63	0.01	38.64	56.00	-17.36	QP	
6		10.1200	34.41	0.14	34.55	60.00	-25.45	QP	

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