

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

**Product Name:** HSDPA USB Modem

**Brand Name:** ZTE

**Model Name:** MF626

**FCC ID:** Q78-ZTEMF626

**Report No.:** EH/2008/60006

**Issue Date:** Jun. 24, 2008

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

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

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

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## VERIFICATION OF COMPLIANCE

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

**Product Name:** HSDPA USB Modem

**Brand Name:** ZTE

**FCC ID:** Q78-ZTEMF626

**Model No.:** MF626

**Model Difference:** N/A

**File Number:** EH/2008/60006

**Date of test:** Jun. 17, 2008 ~Jun. 23, 2008

**Date of EUT Received:** Jun. 16, 2008

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-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.

<b>Test By:</b>		<b>Date</b>	Jun. 24, 2008
	_____ <i>Jim Chang / Supervisor</i>		_____
<b>Prepared By:</b>		<b>Date</b>	Jun. 24, 2008
	_____ <i>Gigi Yeh / Clerk</i>		_____
<b>Approved By:</b>		<b>Date</b>	Jun. 24, 2008
	_____ <i>Vincent Su / Manager</i>		_____

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## Version

Version No.	Date
00	Jun. 24, 2008

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## 1. GENERAL PRODUCT INFORMATION

### General:

Product Name:	HSDPA USB Modem	
Brand Name:	ZTE	
Model Name:	MF626	
Model Difference:	N/A	
Simple Hands-Free (SHF):	N/A	
Data Cable (USB):	N/A	
Power Supply	5Vdc form USB Port.	
	Battery:	N/A
	Adapter:	N/A

### GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power	GSM/GPRS 850	824 MHz– 849MHz	33 dBm
	EDGE 850	824 MHz– 849MHz	27 dBm
	GSM/GPRS 1900	1850MHz – 1910MHz	30 dBm
	EDGE 1900	1850MHz – 1910MHz	26 dBm
	WCDMA/HSDPA Band II	1850MHz – 1910MHz	24 dBm
	WCDMA/HSDPA Band V	824 MHz– 849MHz	24 dBm
Type of Emission	GSM: 300KGXW EDGE: 300KG7W HSDPA: 4M20F9W		
IMEI	004401780171993		
Hardware Version	N/A		
Software Version	N/A		
Antenna Designation	Type Antenna, 0dB		

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

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

This submittal(s) (test report) is intended for **FCC ID: Q78-ZTEMF626** 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 document 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.

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

### 1.3. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

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

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

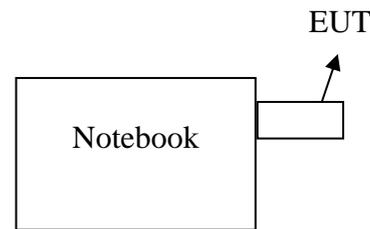
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## 2.4. Configuration of Tested System

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



### Remote Side

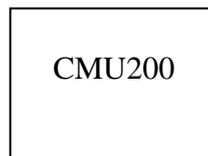


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	Notebook	IBM	T40	99HCYF4	N/A	Shielded
2.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a) §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 lie down position (H) for both GSM of 850 and 1900MHz bands and WCDMA/HSDPA Band II and V were reported.

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## 5. RF POWER OUTPUT MEASUREMENT

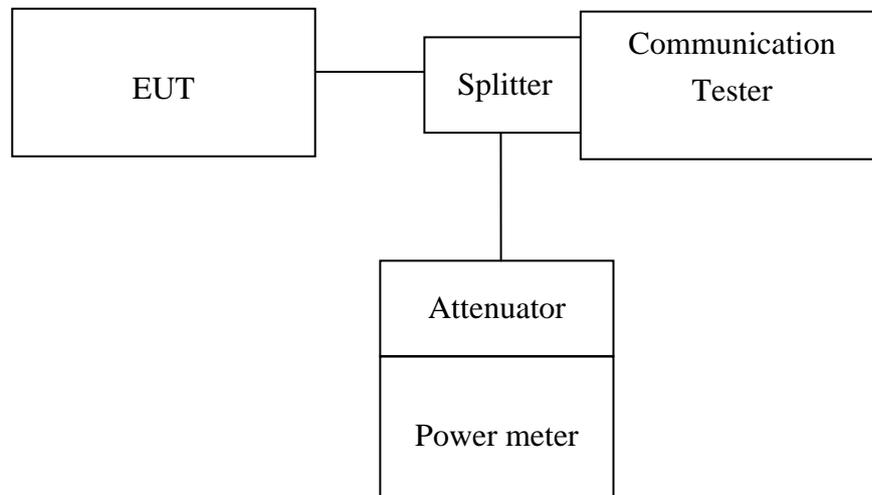
### 5.1. Standard Applicable

According to FCC §2.1046.

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

FCC 24.232(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. The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA/HSDPA) was used for EUT and Base station setting.

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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	11/09/2007	11/08/2008
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	10/14/2007	10/13/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2007	09/22/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
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	31.9	0.50	32.40
	836.60	190	32.3	0.50	32.80
	848.80	251	32.6	0.50	33.10

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	28.1	0.00	28.10
	1880.00	661	28.5	0.00	28.50
	1909.80	810	28.3	0.00	28.30

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 850	824.20	128	26.4	0.00	26.40
	836.60	190	26.9	0.00	26.90
	848.80	251	26.3	0.00	26.30

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 1900	1850.20	512	25.8	0.00	25.8
	1880.00	661	25.7	0.00	25.7
	1909.80	810	25.9	0.00	25.9

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EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
HSDPA BAND V	826.40	4132	23.01	0.00	23.01
	836.00	4180	22.87	0.00	22.87
	846.60	4233	23.12	0.00	23.12

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
HSDPA BAND II	1852.40	9262	22.02	0.00	22.02
	1880.00	9400	21.20	0.00	21.20
	1907.60	9538	21.34	0.00	21.34

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## 6. ERP, EIRP MEASUREMENT

### 6.1. Standard Applicable

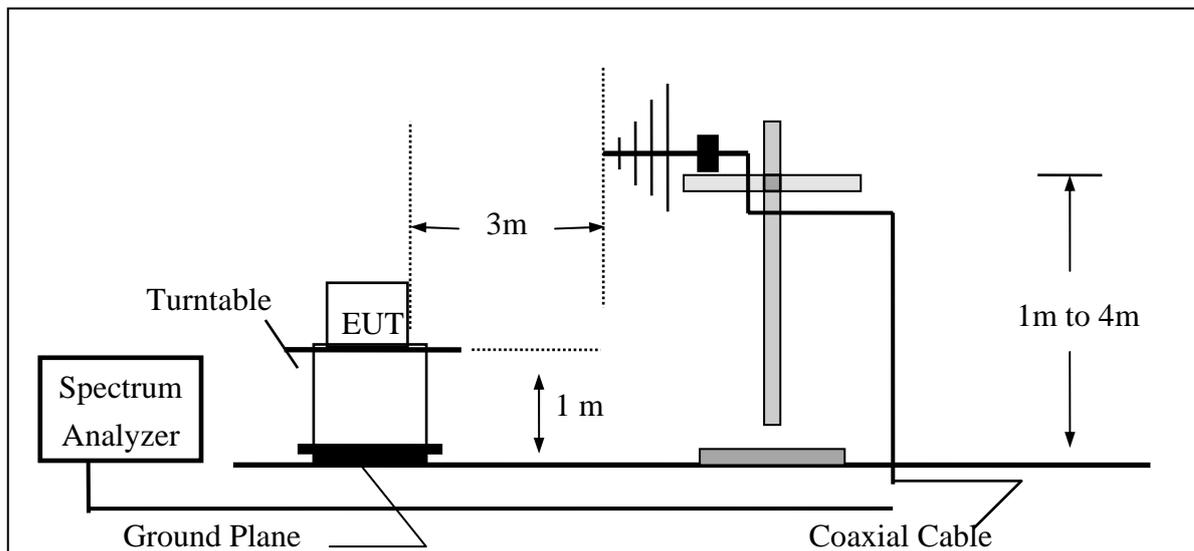
According to FCC §2.1046

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

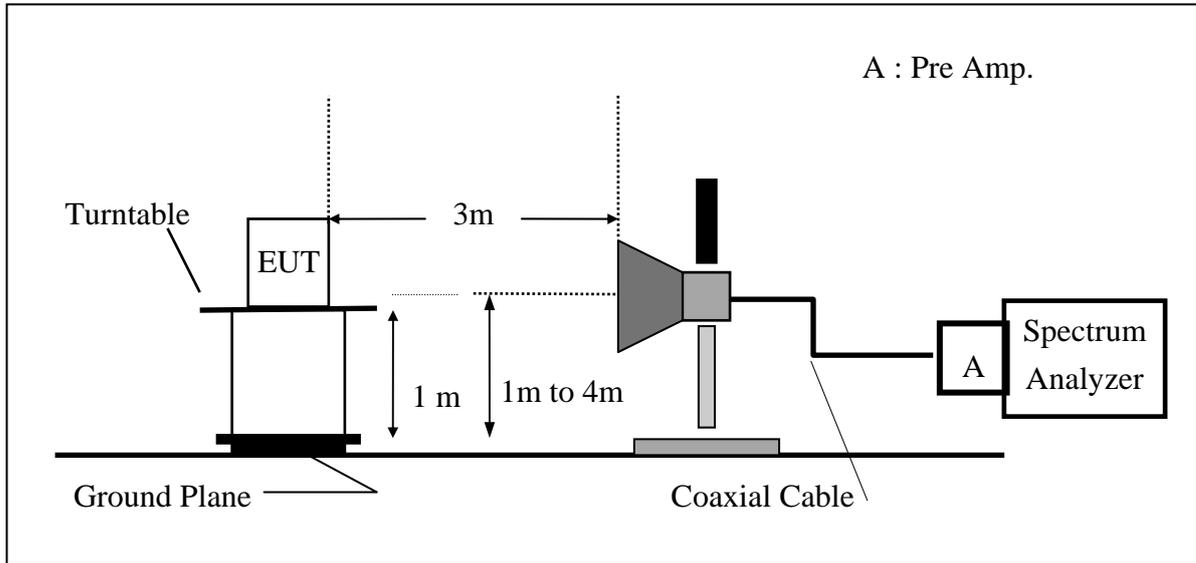


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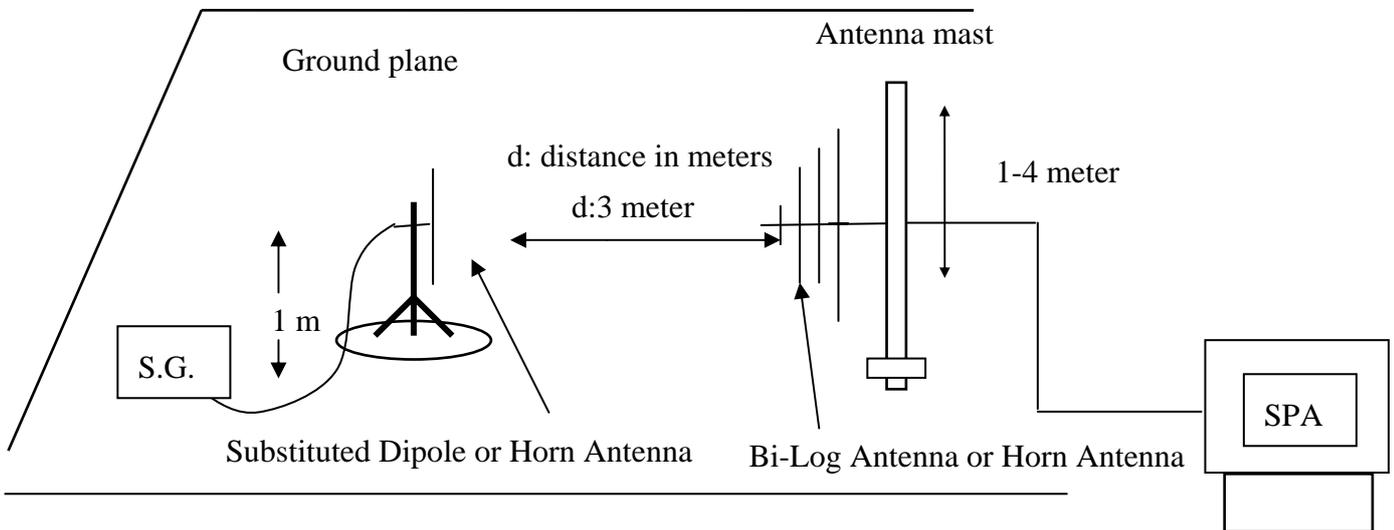
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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### 6.3. Measurement Procedure

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

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

ERP in frequency band 824.2 –848.8MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

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

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

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

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

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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	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
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	123.74	36.42	-7.87	3.64	24.90	38.45
				H	126.66	39.00	-7.87	3.64	27.49	38.45
	836.60	190	H	V	125.04	38.01	-7.88	3.70	26.44	38.45
				H	127.87	40.53	-7.88	3.70	28.96	38.45
	848.80	251	H	V	126.03	39.29	-7.88	3.75	27.66	38.45
				H	128.64	41.62	-7.88	3.75	29.99	38.45

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	126.85	19.89	9.90	5.41	24.38	33.00
				H	129.65	22.76	9.90	5.41	27.25	33.00
	1880.00	661	H	V	125.89	18.94	9.99	5.46	23.47	33.00
				H	128.39	21.52	9.99	5.46	26.05	33.00
	1909.80	810	H	V	124.58	17.64	10.08	5.51	22.21	33.00
				H	127.12	20.27	10.08	5.51	24.83	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
Below 1GHz was RBW=100 KHz, VBW=300KHz,  
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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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 (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	115.75	28.43	-7.87	3.64	16.91	38.45
				H	121.17	33.51	-7.87	3.64	22.00	38.45
	836.60	190	H	V	115.96	28.93	-7.88	3.70	17.36	38.45
				H	120.91	33.57	-7.88	3.70	22.00	38.45
	848.80	251	H	V	117.09	30.35	-7.88	3.75	18.72	38.45
				H	122.62	35.60	-7.88	3.75	23.97	38.45

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	124.00	17.04	9.90	5.41	21.53	33.00
				H	124.04	17.15	9.90	5.41	21.64	33.00
	1880.00	661	H	V	113.67	6.72	9.99	5.46	11.25	33.00
				H	123.01	16.14	9.99	5.46	20.67	33.00
	1909.80	810	H	V	112.53	5.59	10.08	5.51	10.16	33.00
				H	123.48	16.63	10.08	5.51	21.19	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
Below 1GHz was RBW=100 KHz, VBW=300KHz,  
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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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 (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSDPA Band II	1852.40	9262	H	V	118.07	11.11	9.90	5.41	15.61	33.00
				H	126.35	19.46	9.90	5.41	23.96	33.00
	1880.00	9400	H	V	117.44	10.49	9.99	5.46	15.02	33.00
				H	125.41	18.54	9.99	5.46	23.07	33.00
	1907.60	9538	H	V	117.68	10.74	10.07	5.51	15.31	33.00
				H	126.09	19.23	10.07	5.51	23.80	33.00

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)
HSDPA Band V	826.40	4132	H	V	116.98	29.71	-7.88	3.65	18.18	38.45
				H	121.30	33.70	-7.88	3.65	22.17	38.45
	836.00	4180	H	V	110.16	23.12	-7.88	3.69	11.55	38.45
				H	116.63	29.28	-7.88	3.69	17.71	38.45
	846.60	4233	H	V	112.14	25.35	-7.88	3.74	13.73	38.45
				H	117.35	30.27	-7.88	3.74	18.65	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
Below 1GHz was RBW=100 KHz, VBW=300KHz,  
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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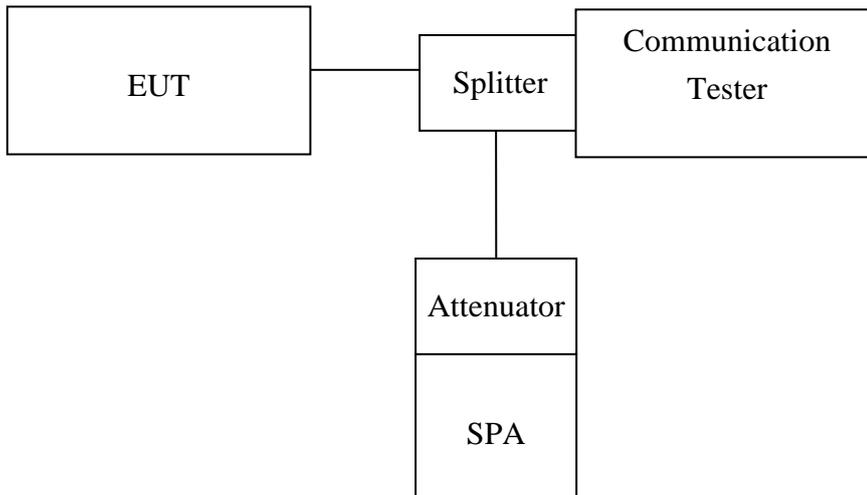
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## 7. 99% OCCUPIED BANDWIDTH MEASUREMENT

### 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	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
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	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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**7.5. Measurement Result:**

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2408
	836.60	190	0.2423
	848.80	251	0.2490

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2482
	1880.00	661	0.4340
	1909.80	810	0.2445

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2446
	836.60	190	0.2450
	848.80	251	0.2461

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2396
	1880.00	661	0.2381
	1909.80	810	0.2412

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA BAND II	1852.40	9262	0.4175
	1880.00	9400	0.4146
	1907.60	9538	0.4166

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA BAND V	826.40	4132	0.4146
	836.00	4180	0.4165
	846.60	4233	0.4186

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Figure 7-1: GSM Channel Low

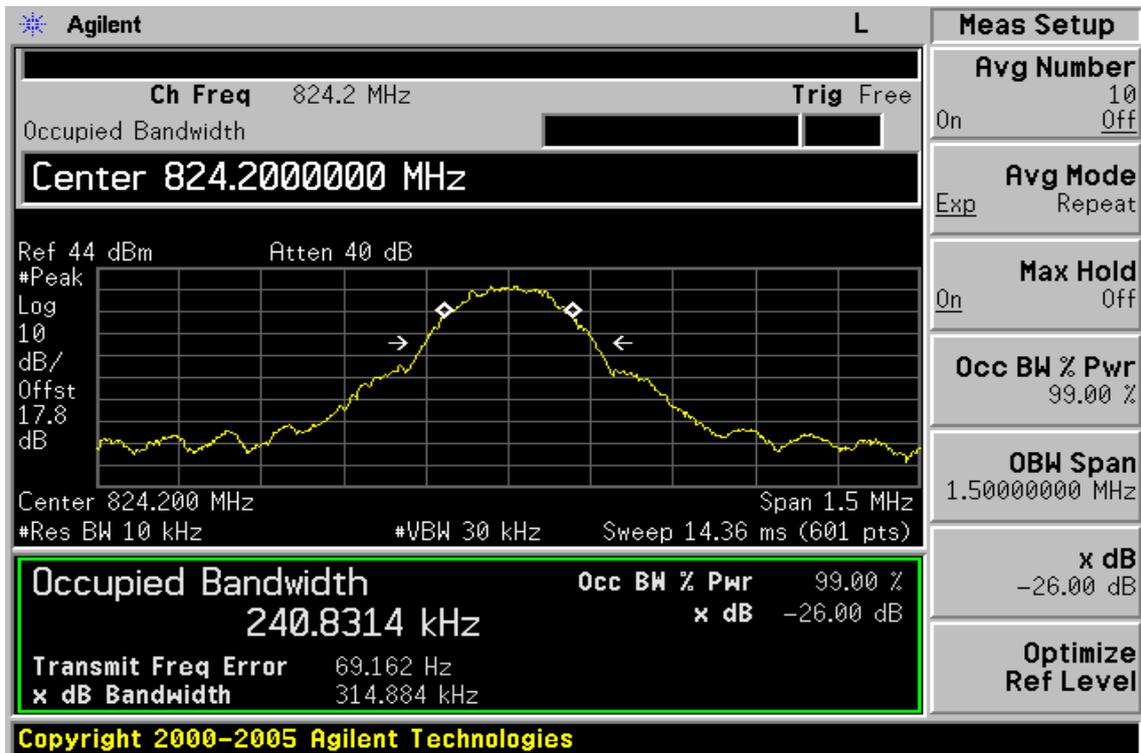
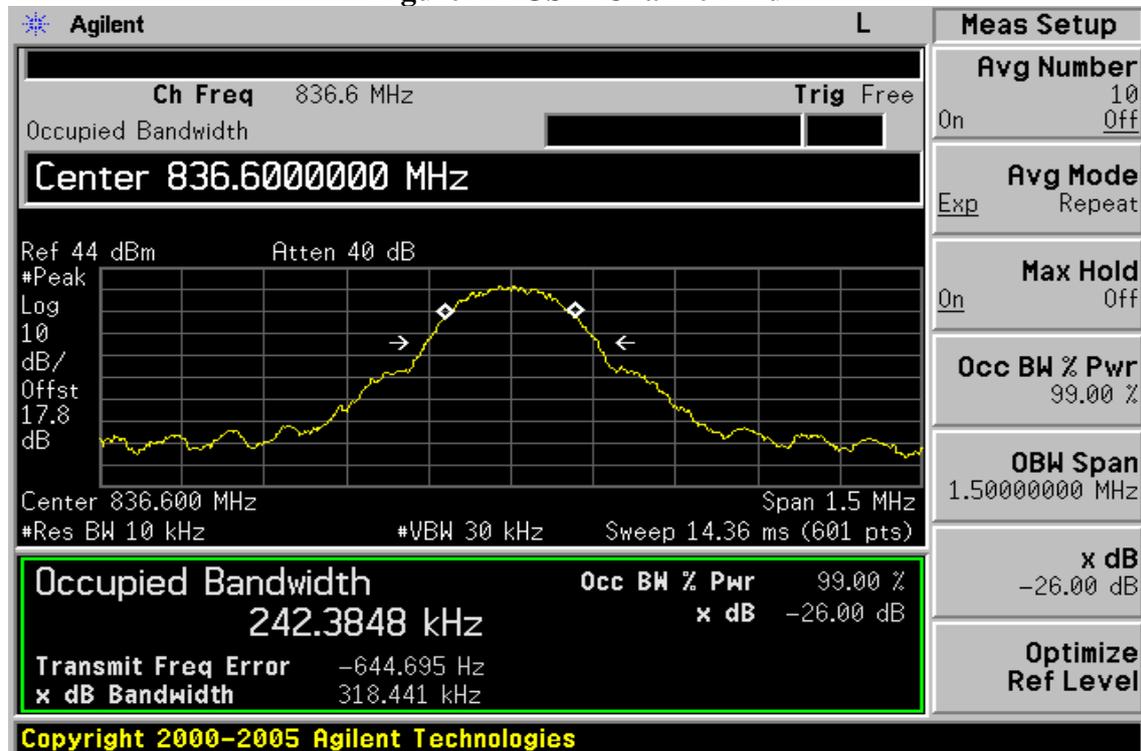


Figure 7-2 GSM Channel Mid



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Figure 7-3: GSM Channel High

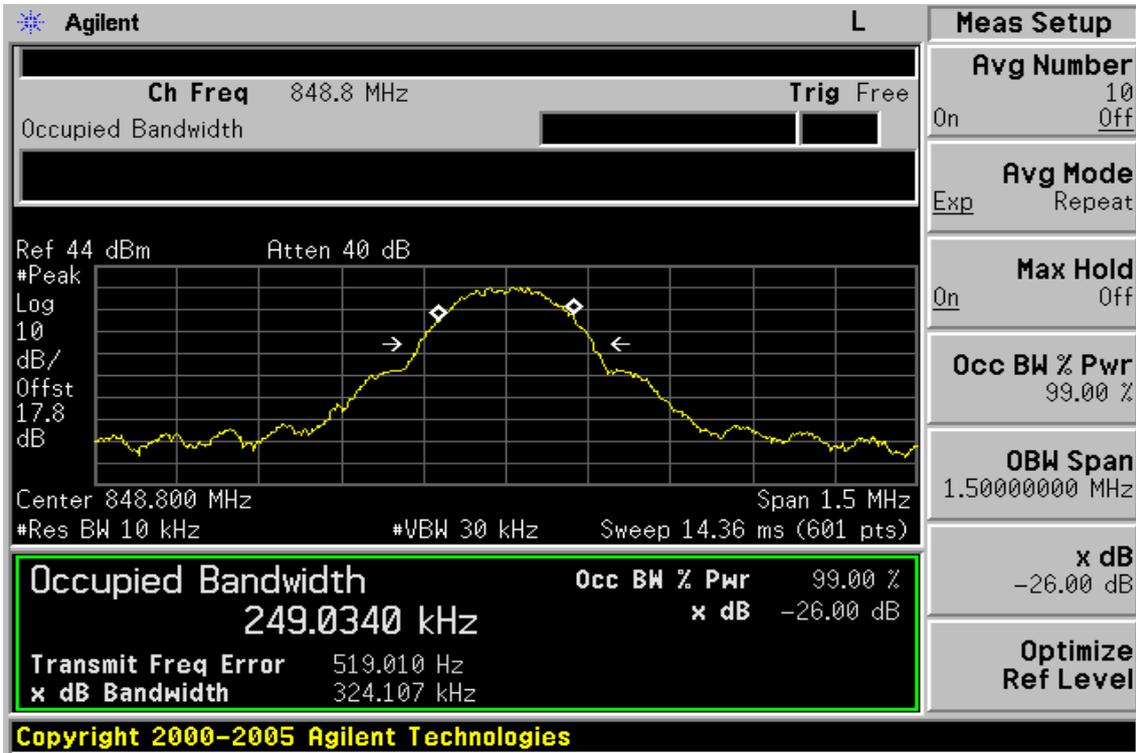
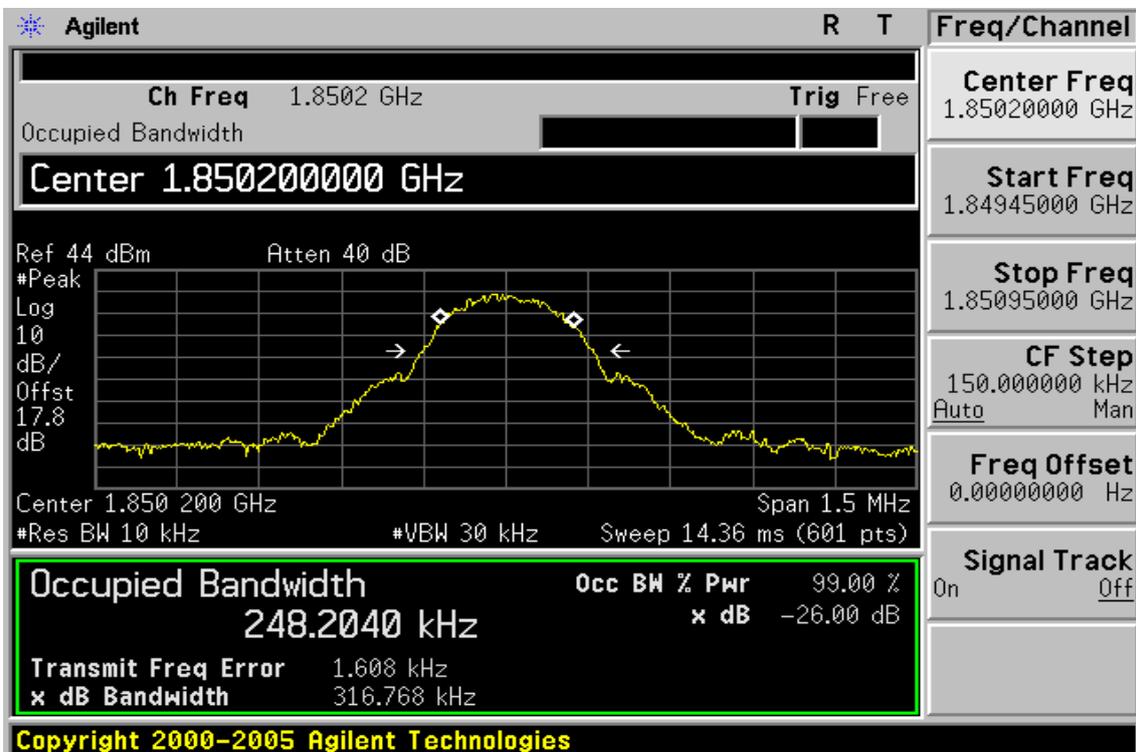


Figure 7-4: PCS Channel Low



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Figure 7-5 PCS Channel Mid

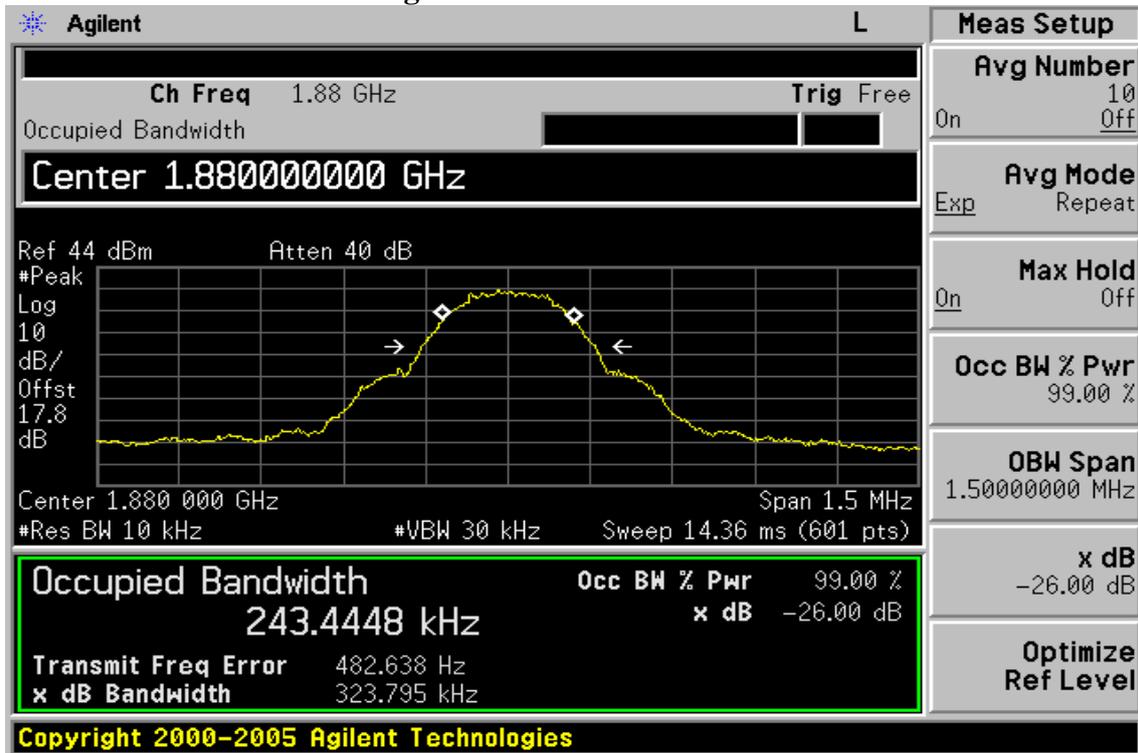
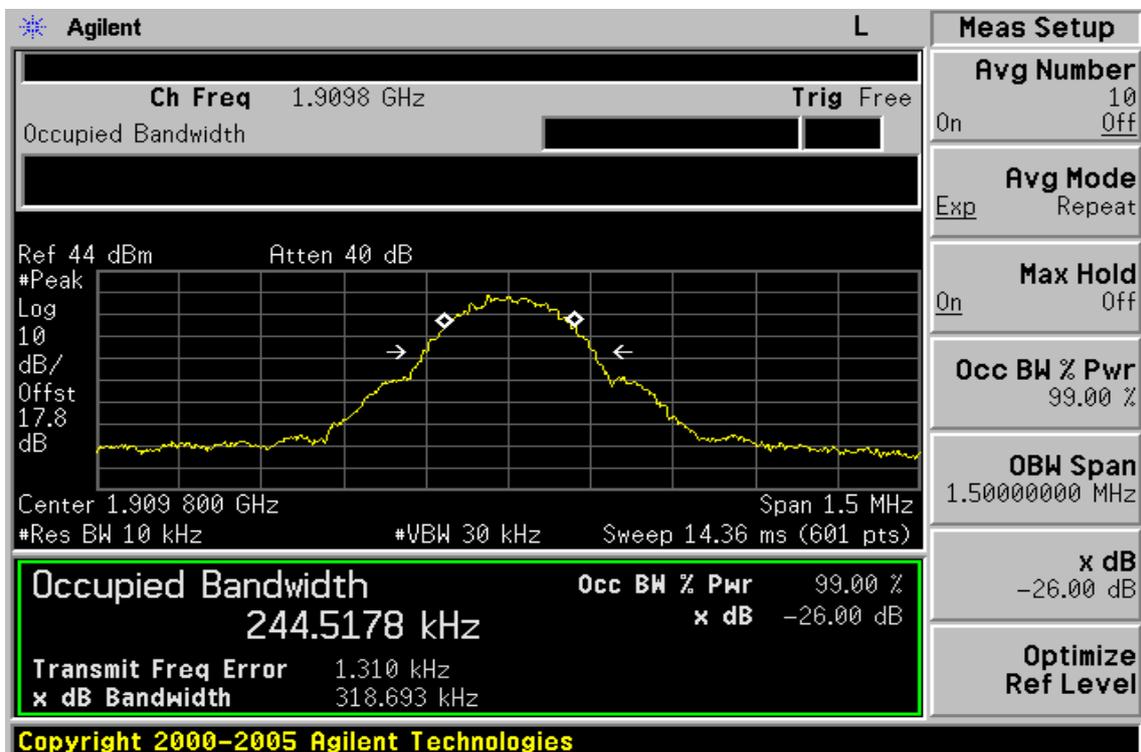


Figure 7-6: PCS Channel High



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Figure 7-7: EDGE 850 Channel Low

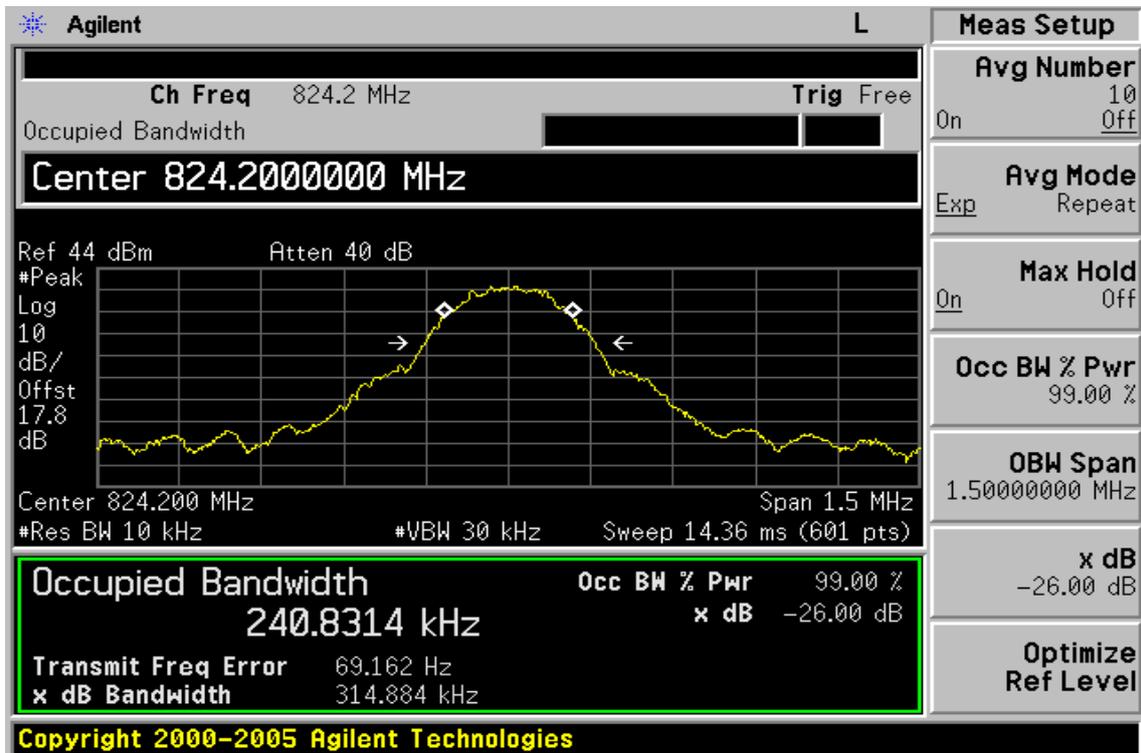
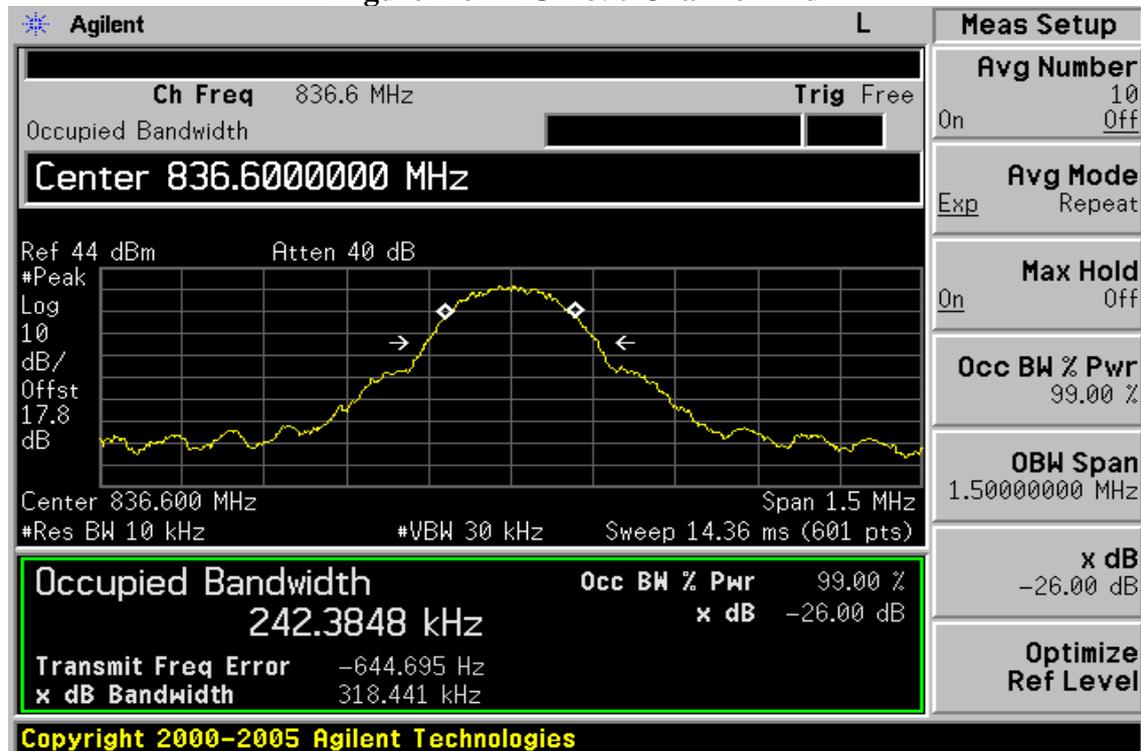


Figure 7-8 EDGE 850 Channel Mid



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Figure 7-9: EDGE 850 Channel High

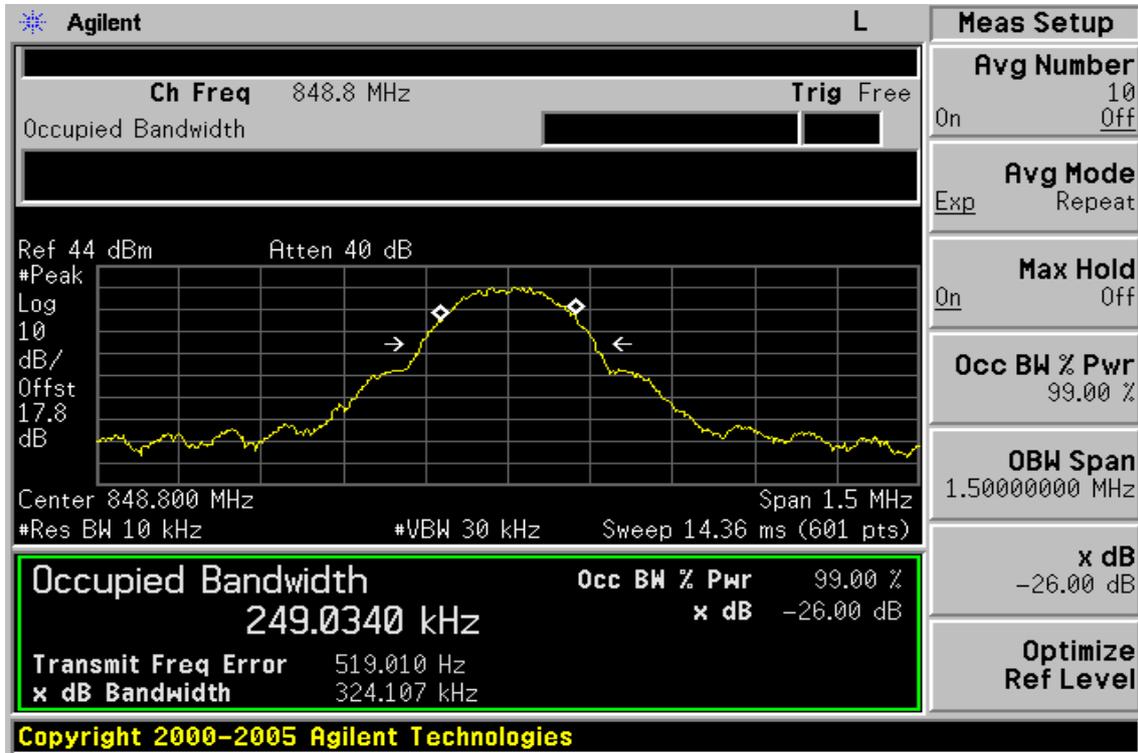
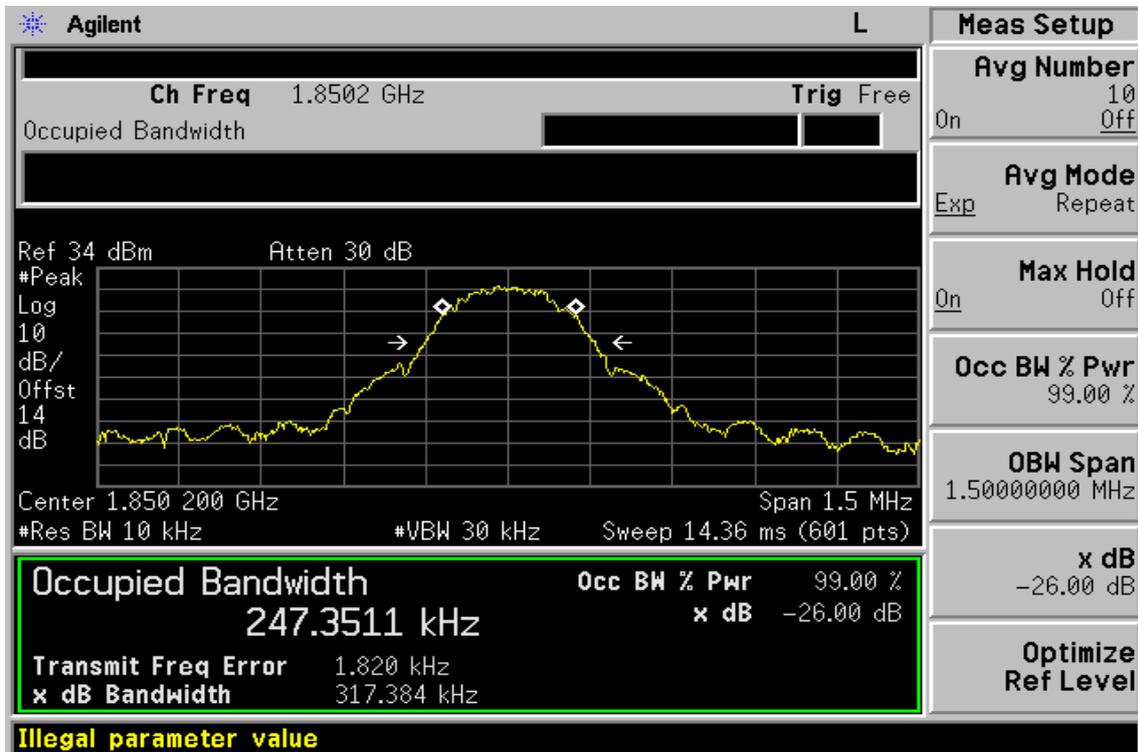


Figure 7-10: EDGE 1900 Channel Low



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Figure 7-11 EDGE 1900 Channel Mid

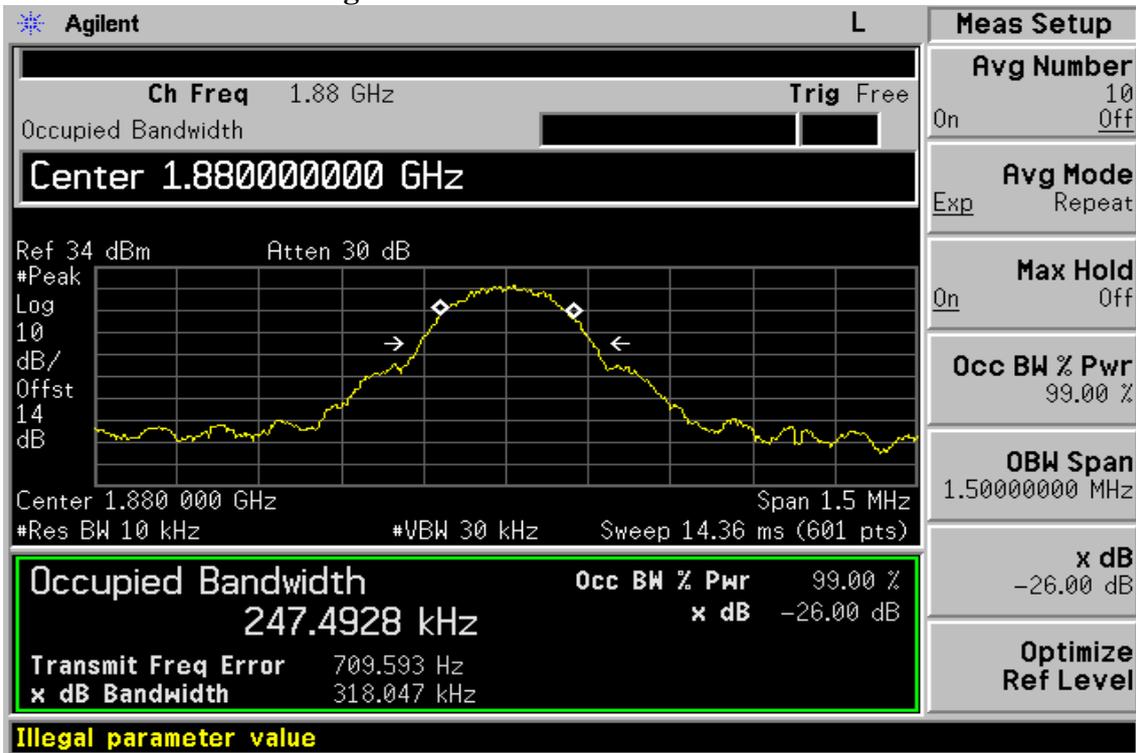
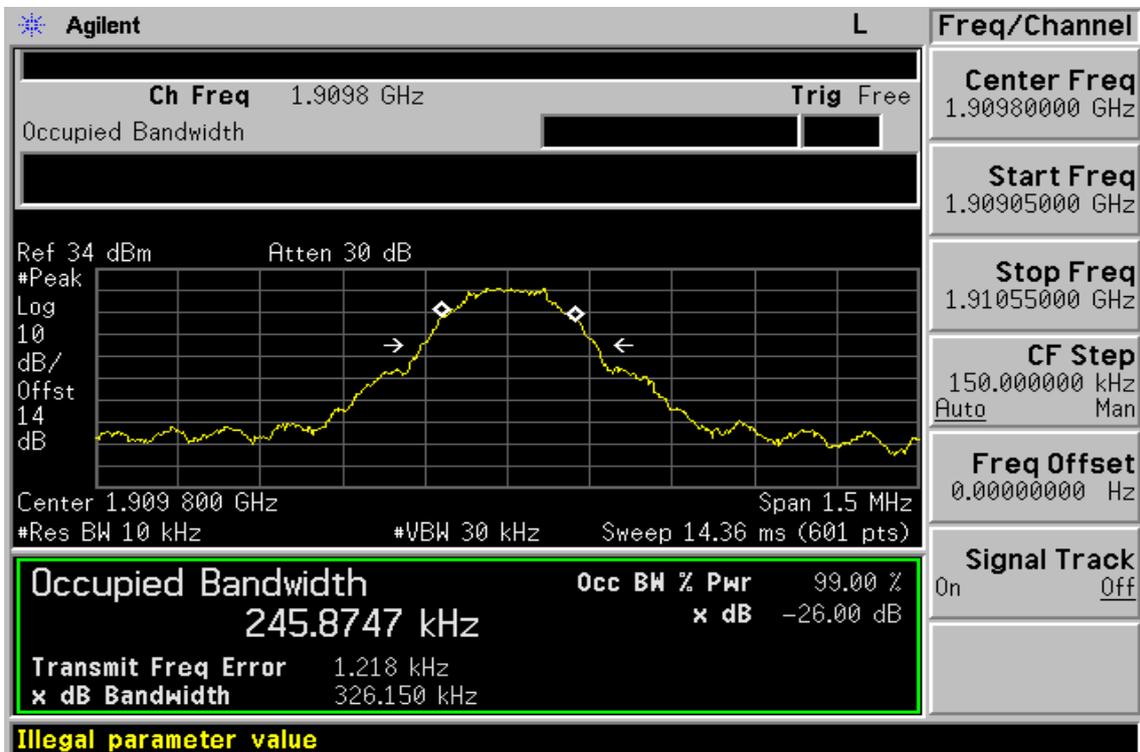


Figure 7-12: EDGE 1900 Channel High



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Figure 7-13: HSDPA BAND II Channel Low

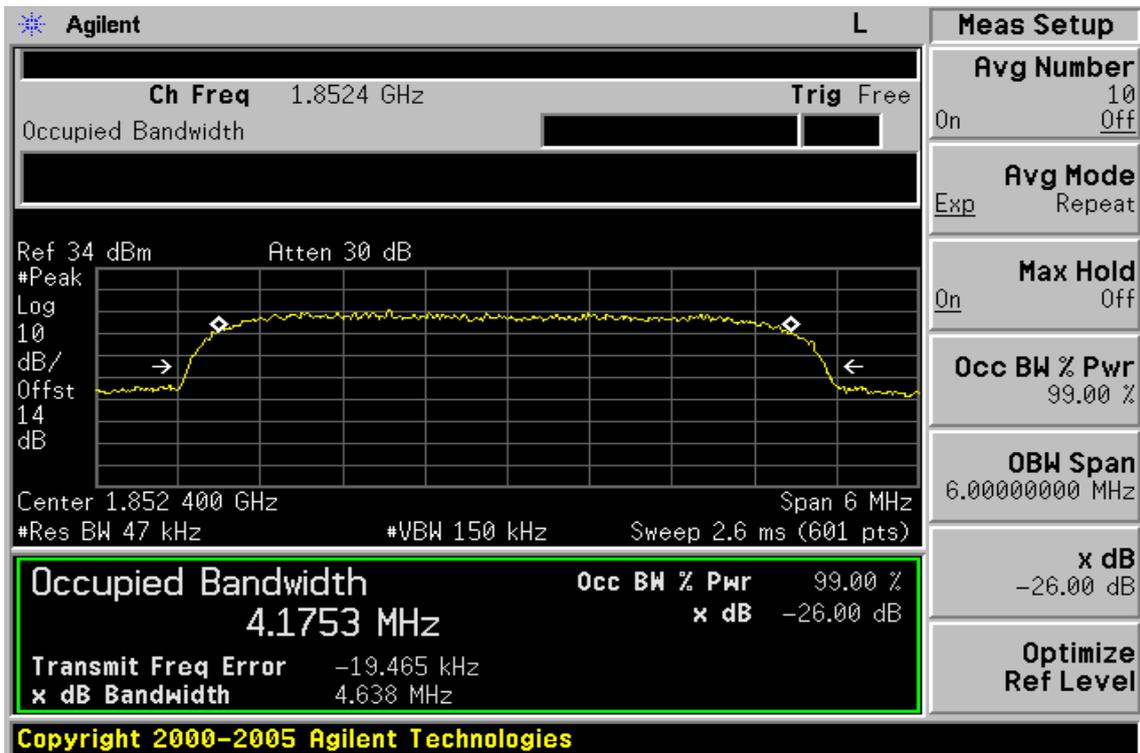
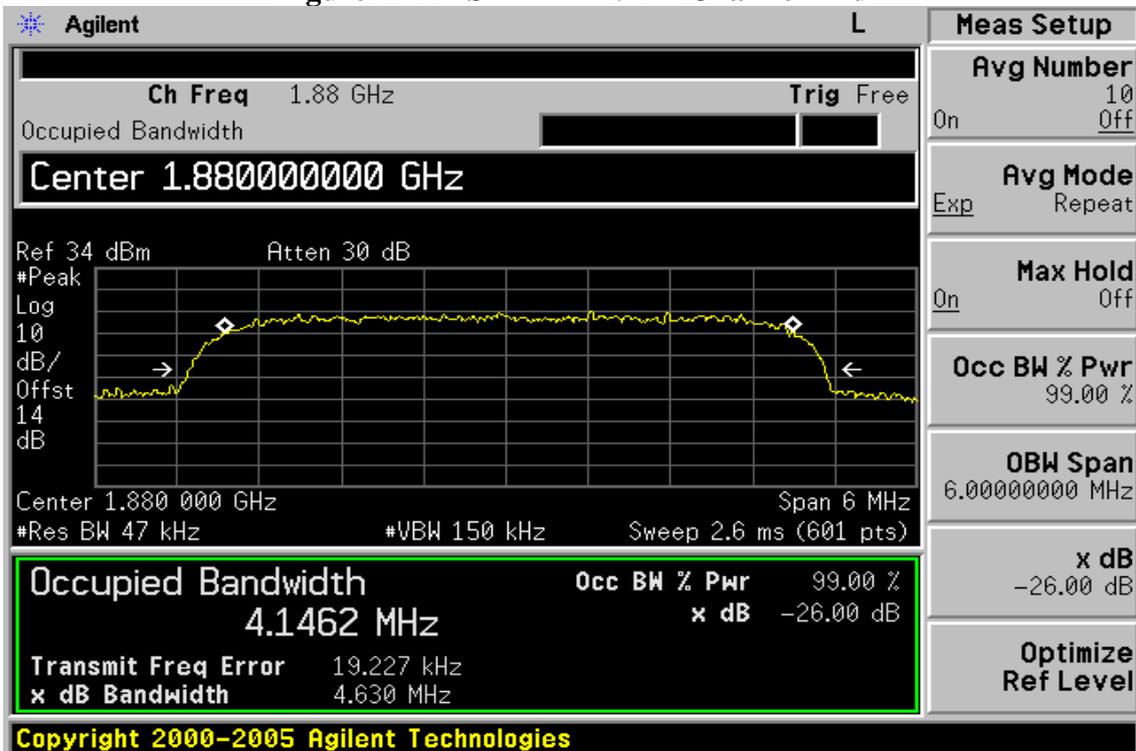


Figure 7-14 HSDPA BAND II Channel Mid



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Figure 7-15: HSDPA BAND II Channel High

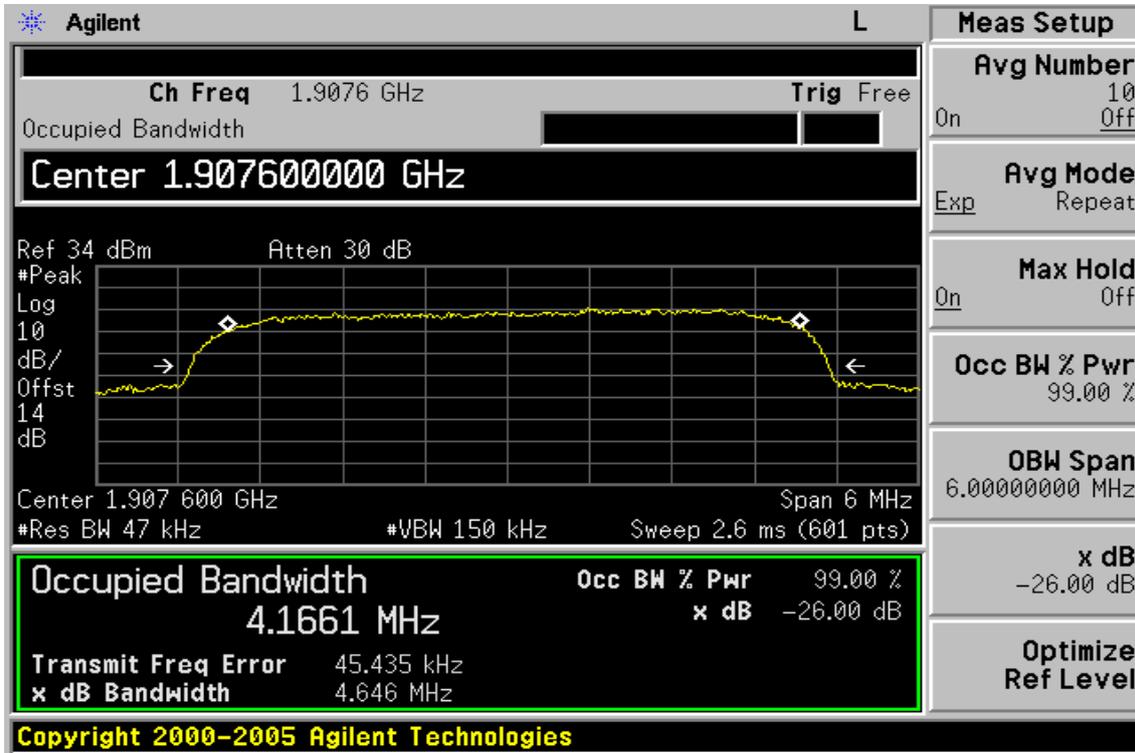
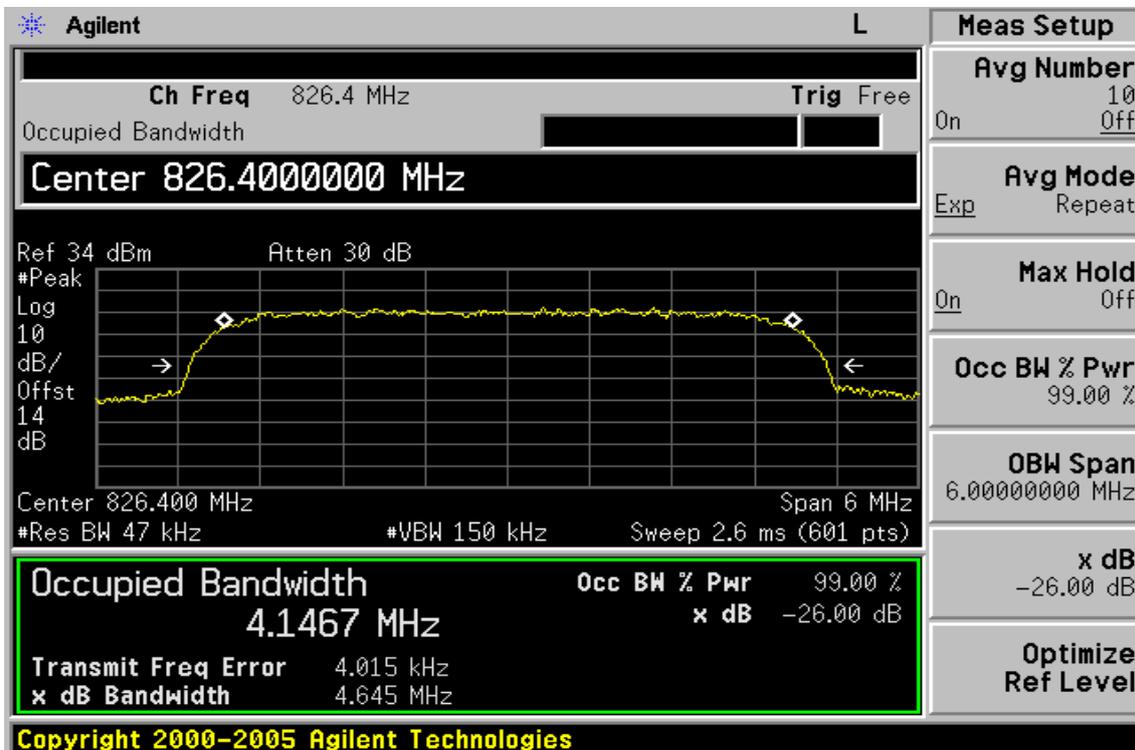


Figure 7-16: HSDPA BAND V Channel Low



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Figure 7-17 HSDPA BAND V Channel Mid

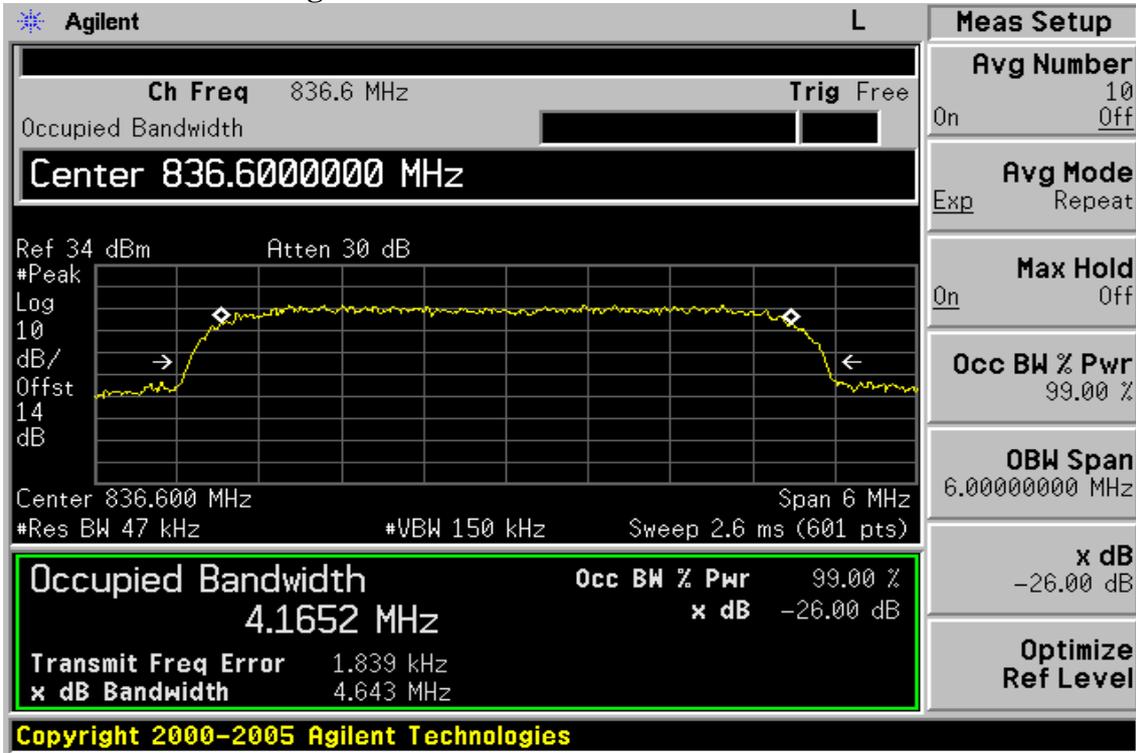
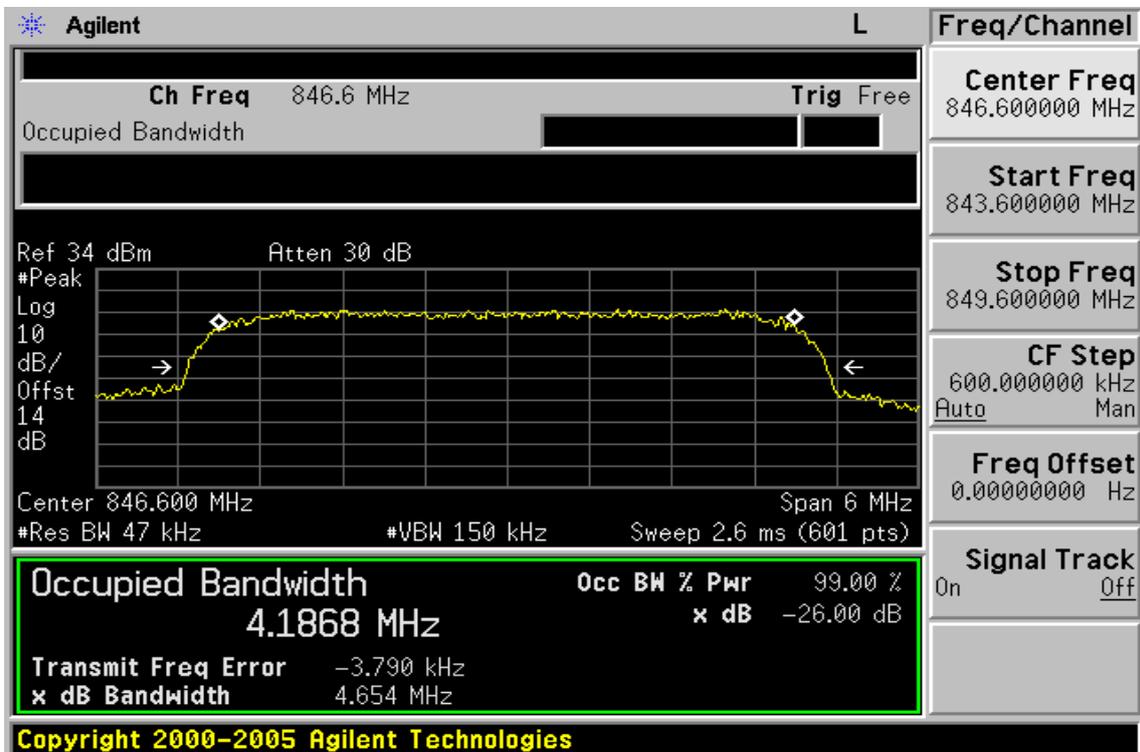


Figure 7-18: HSDPA BAND V Channel High



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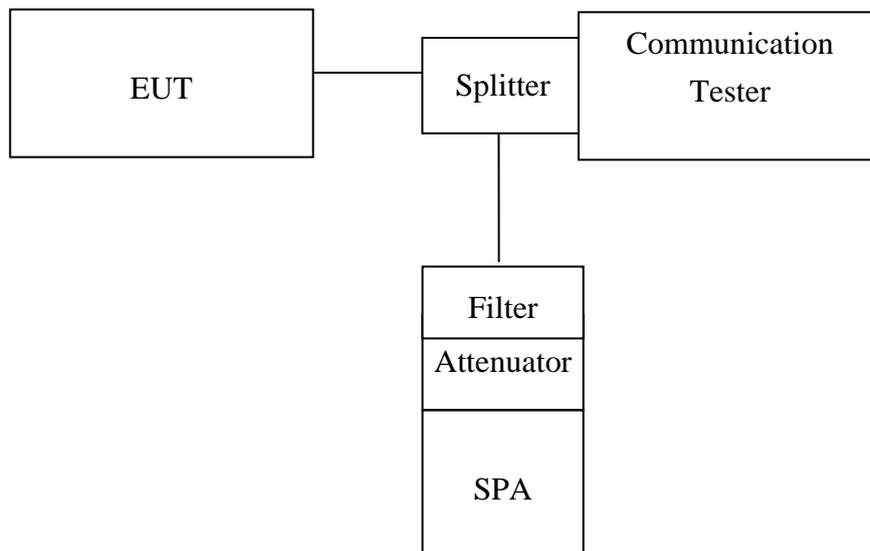
## 8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 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	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
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	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

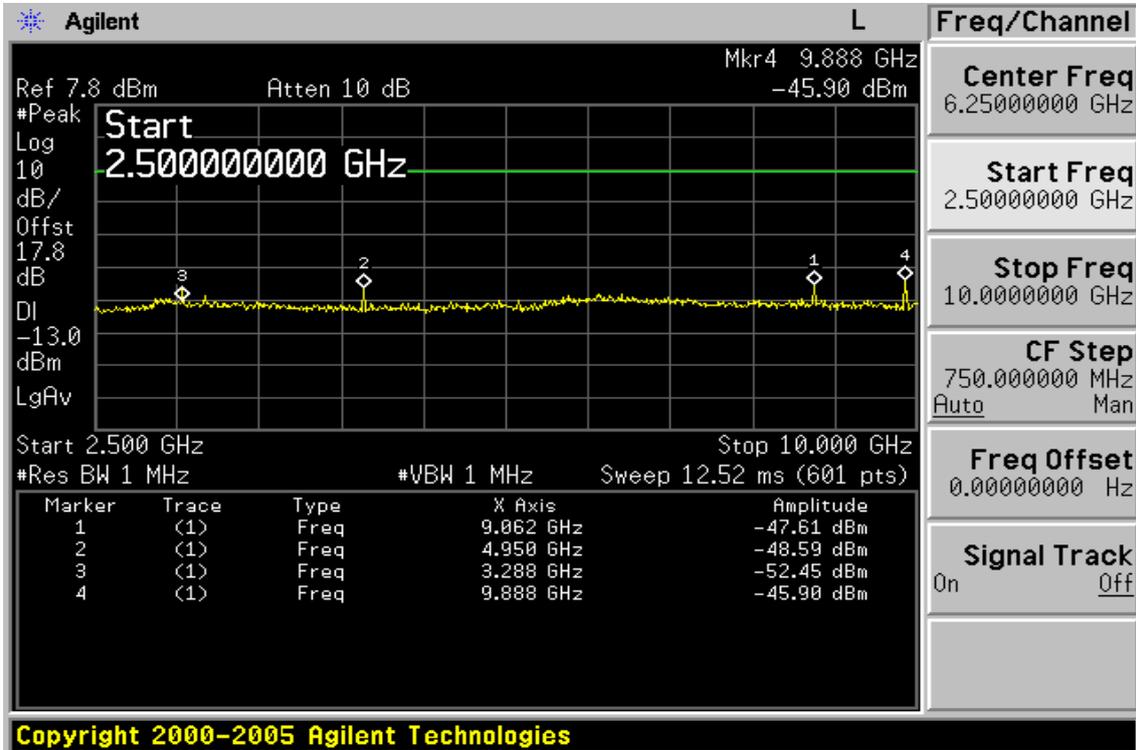
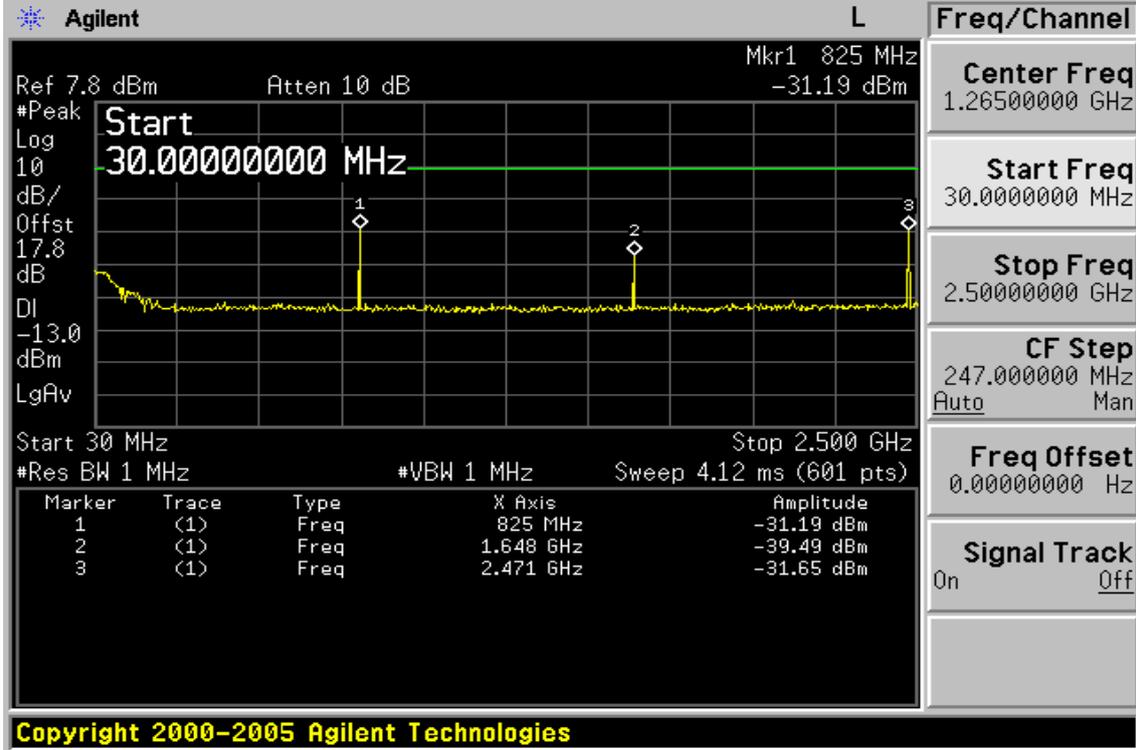
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8.5. Measurement Result

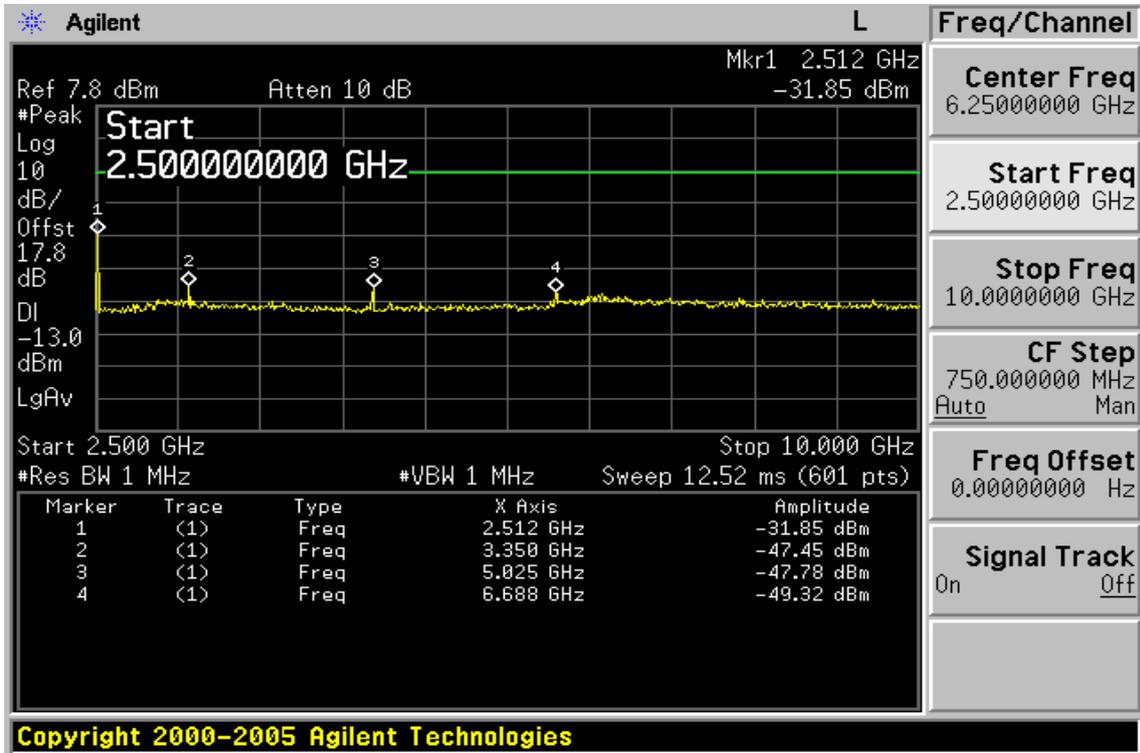
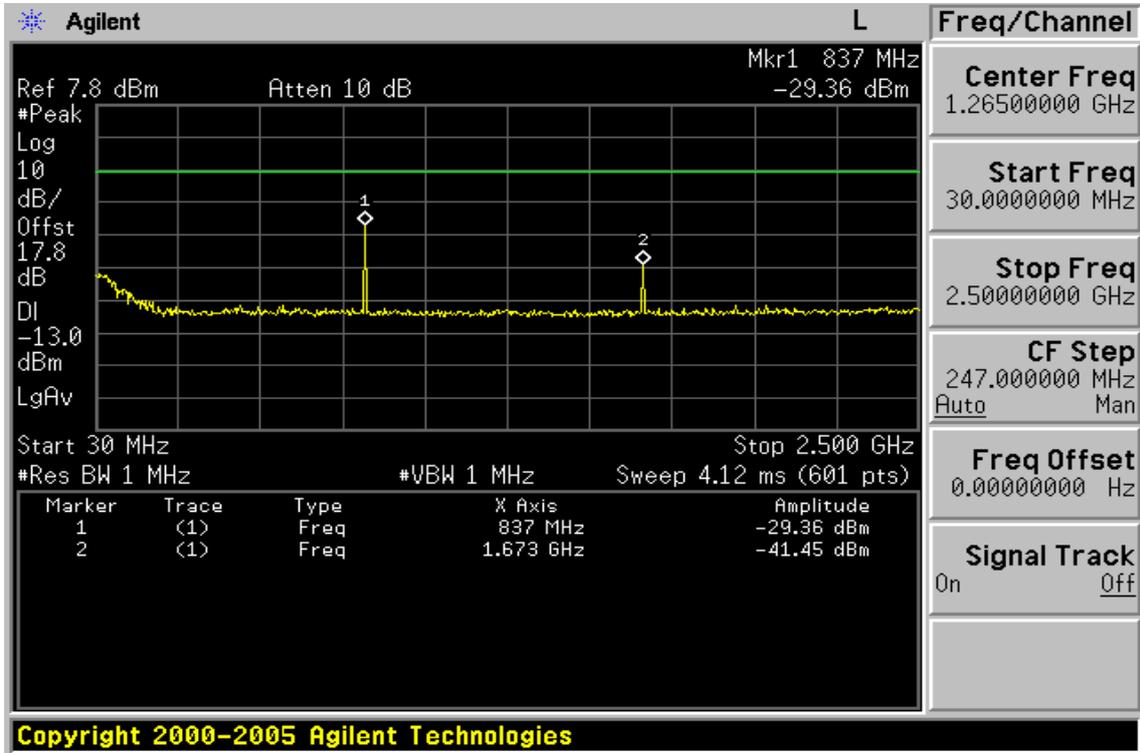
Figure 8-1: Out of Band emission at antenna terminals– GSM Channel Lowest



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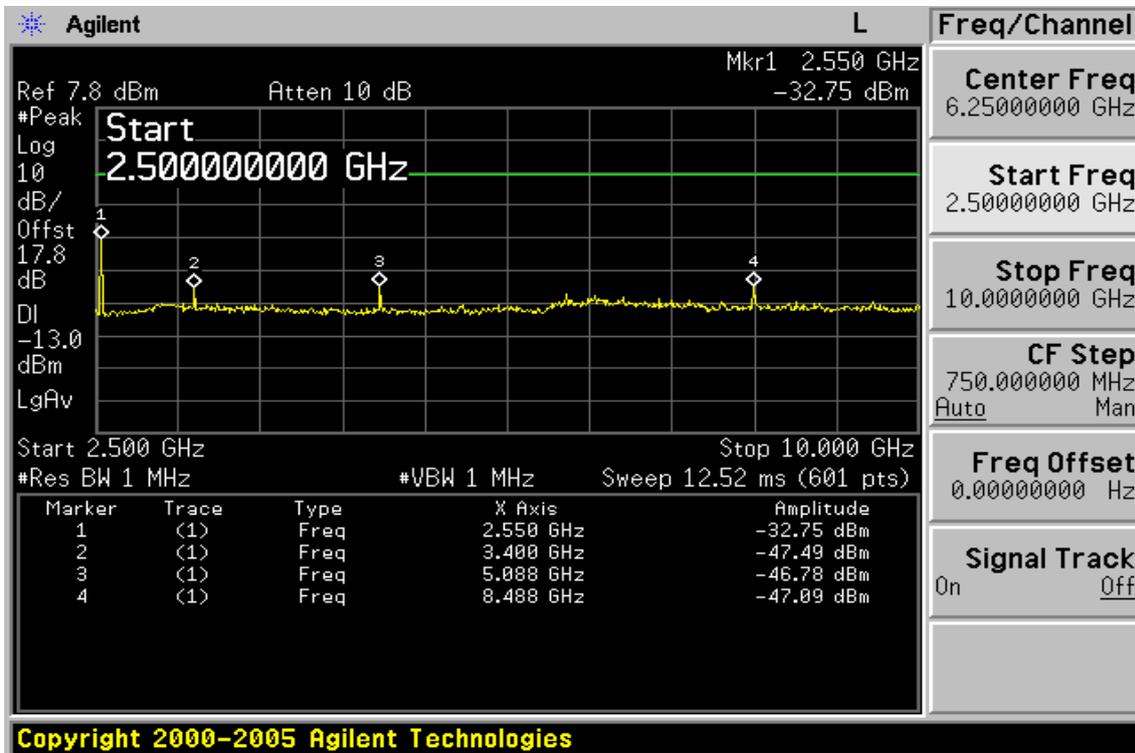
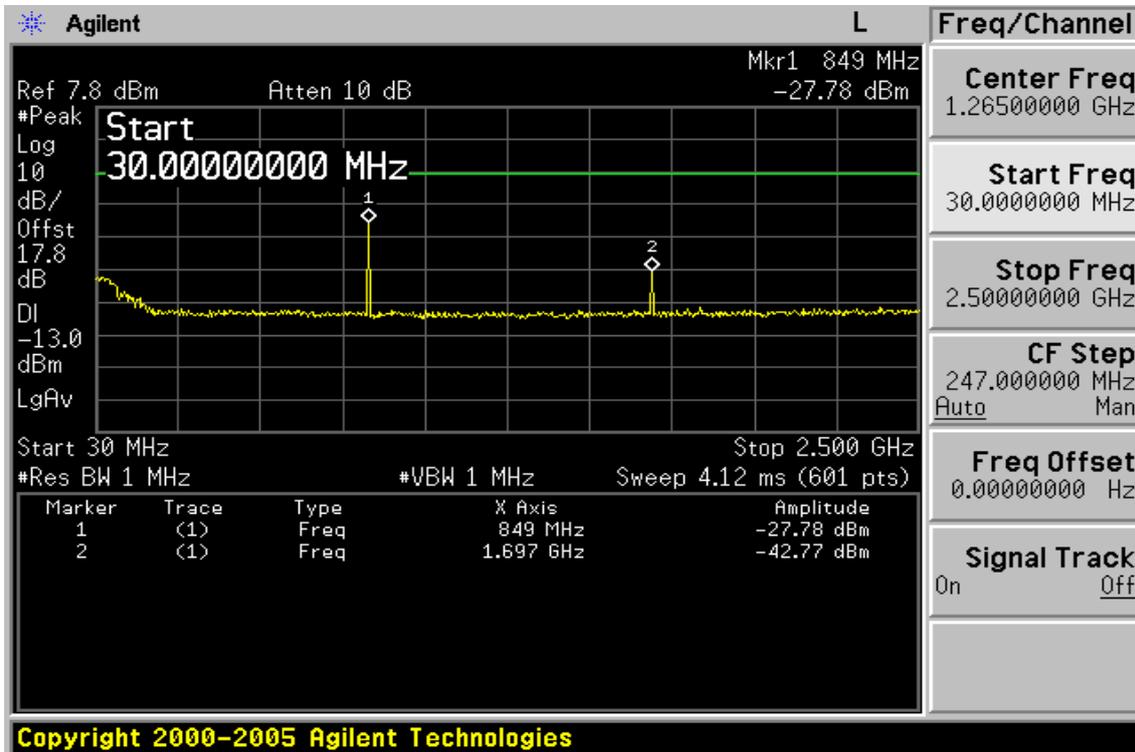
Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid



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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

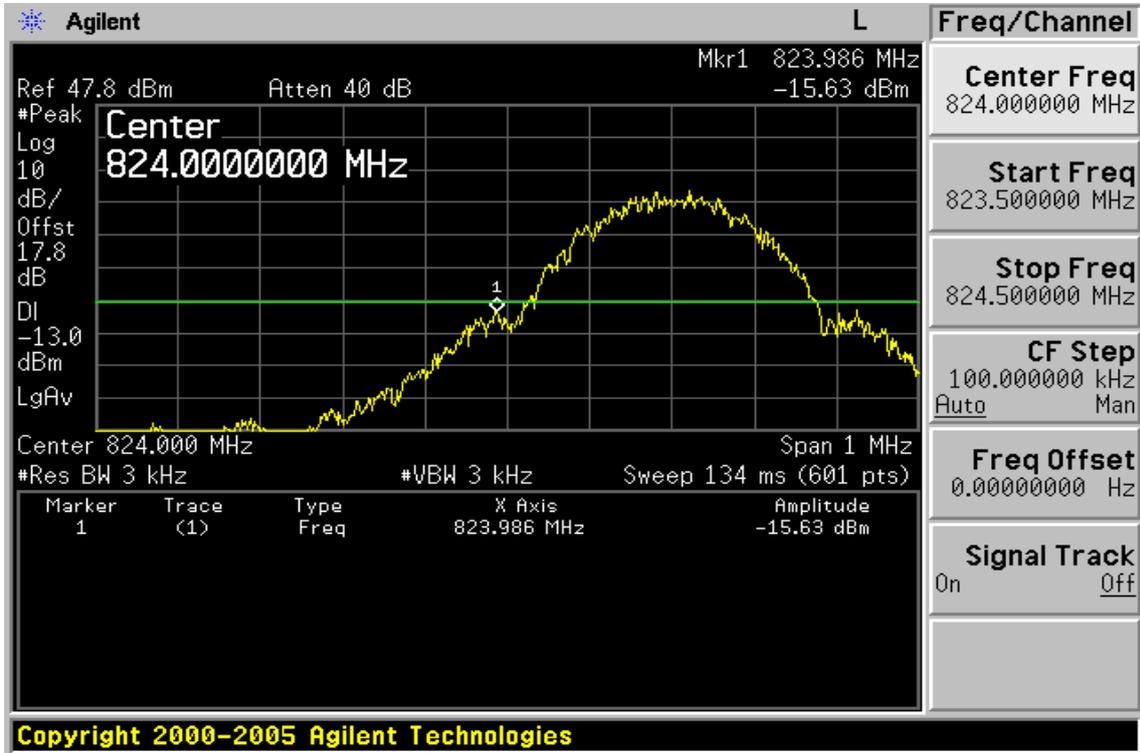
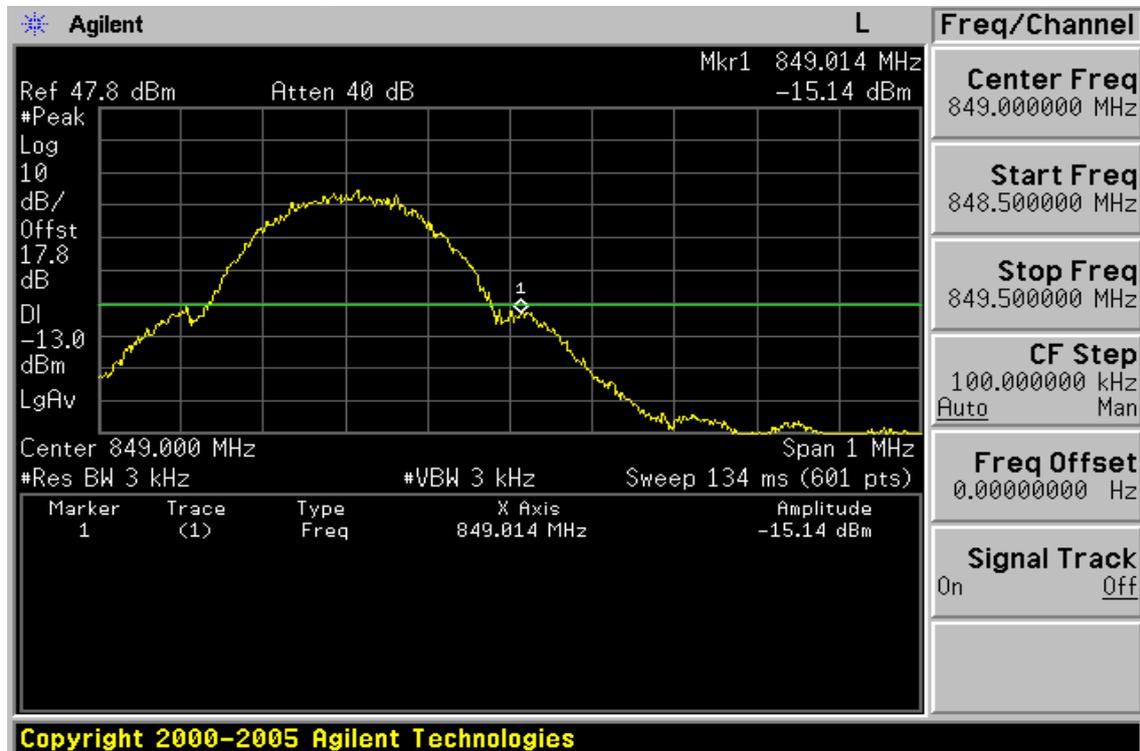


Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest

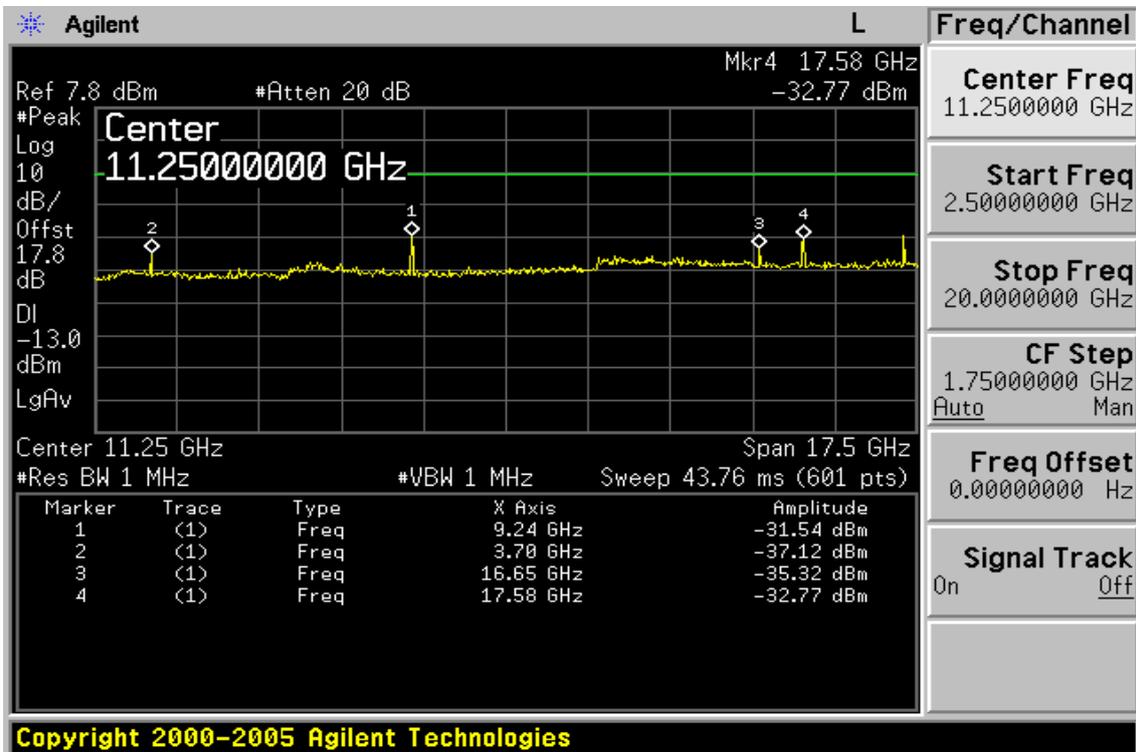
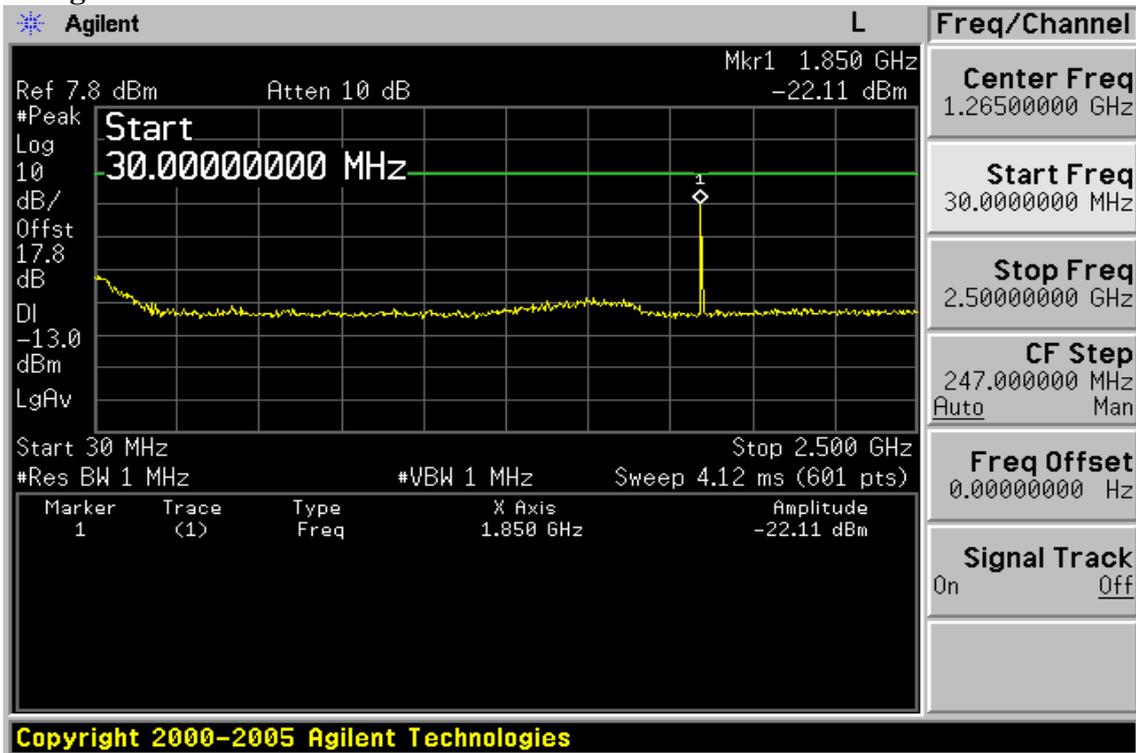


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Figure 8-6: Out of Band emission at antenna terminals– PCS Channel Lowest

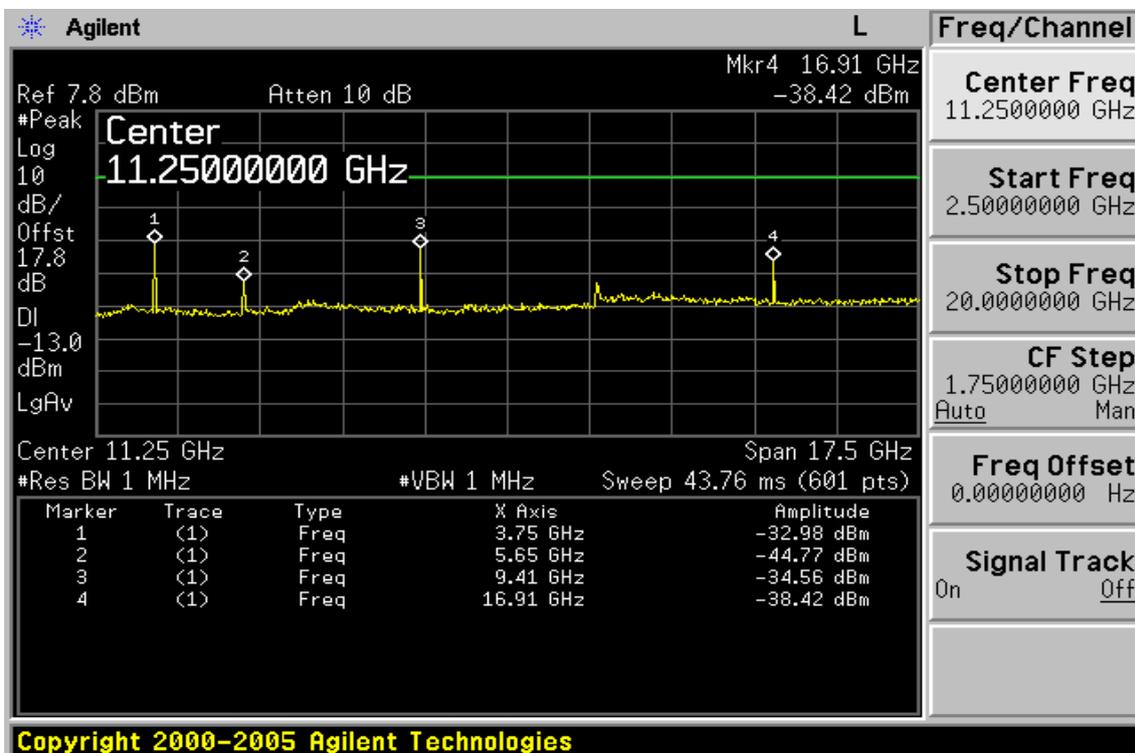
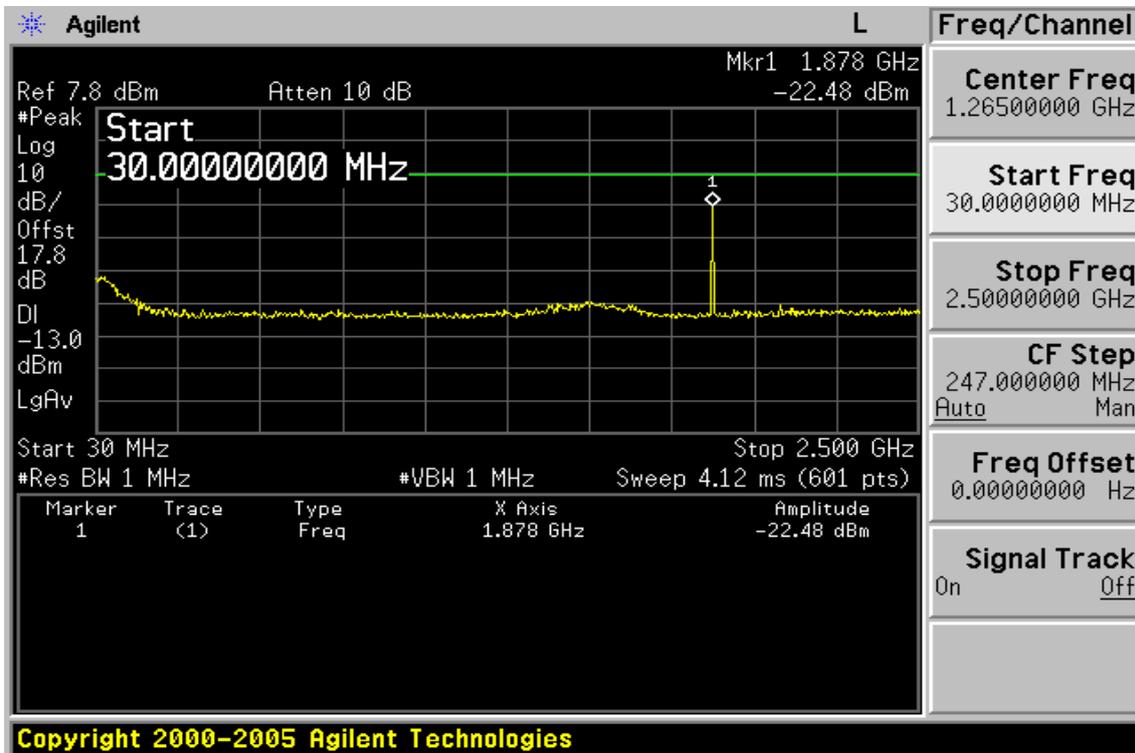


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Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid

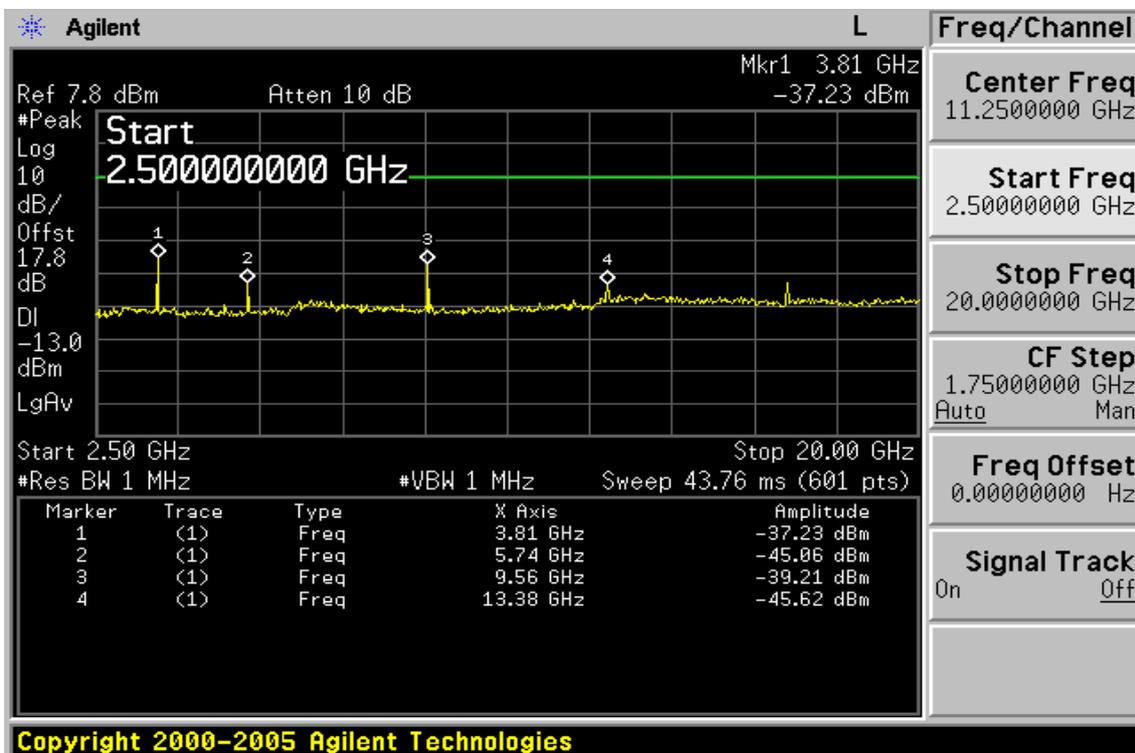
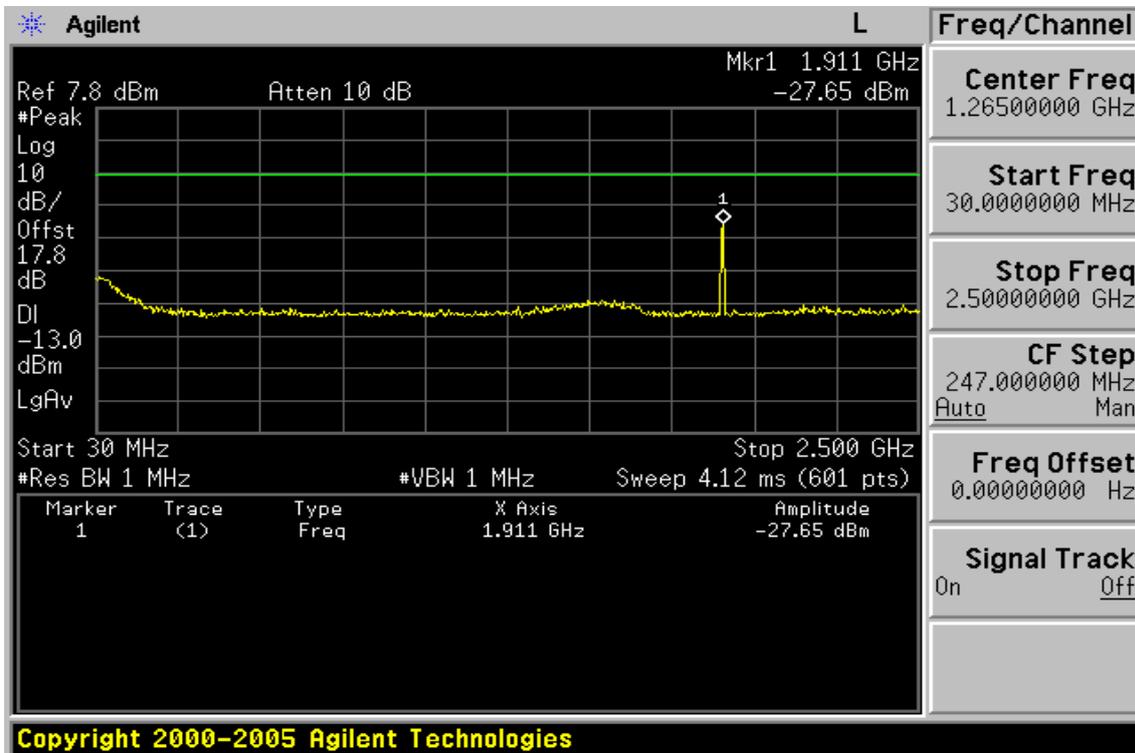


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Figure 8-8: Out of Band emission at antenna terminals–PCS Channel Highest

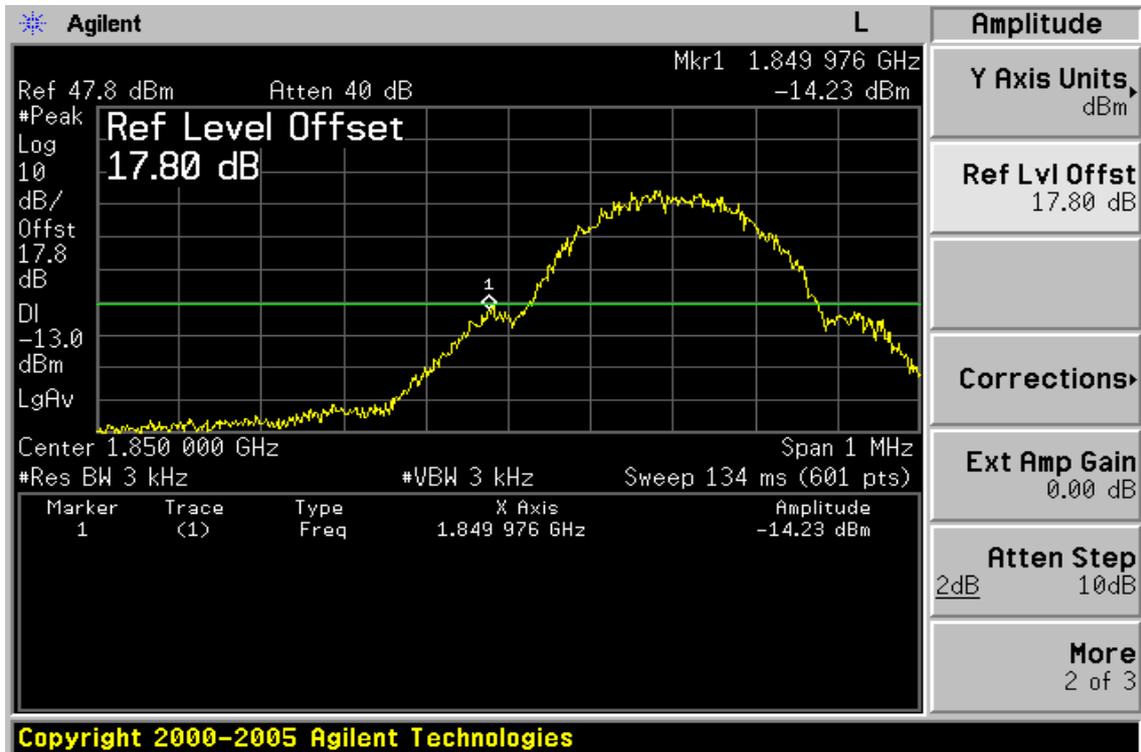


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**Figure 8-9: Bad edge emission at antenna terminals – PCS Channel Lowest**



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

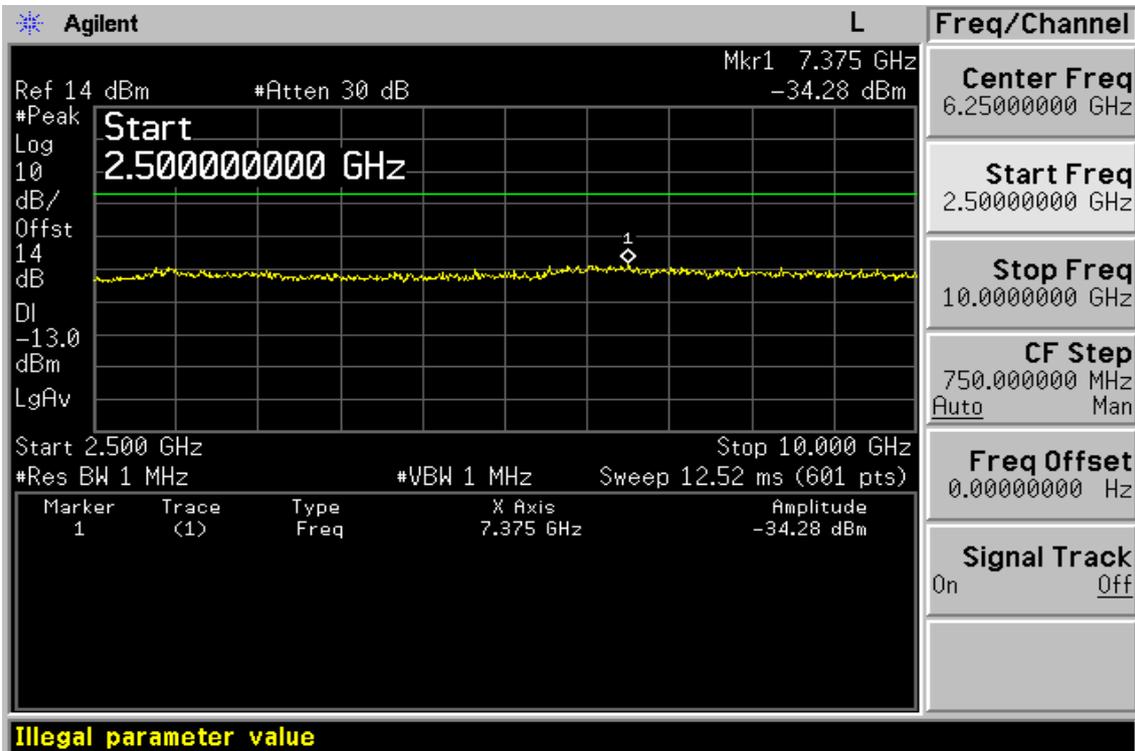
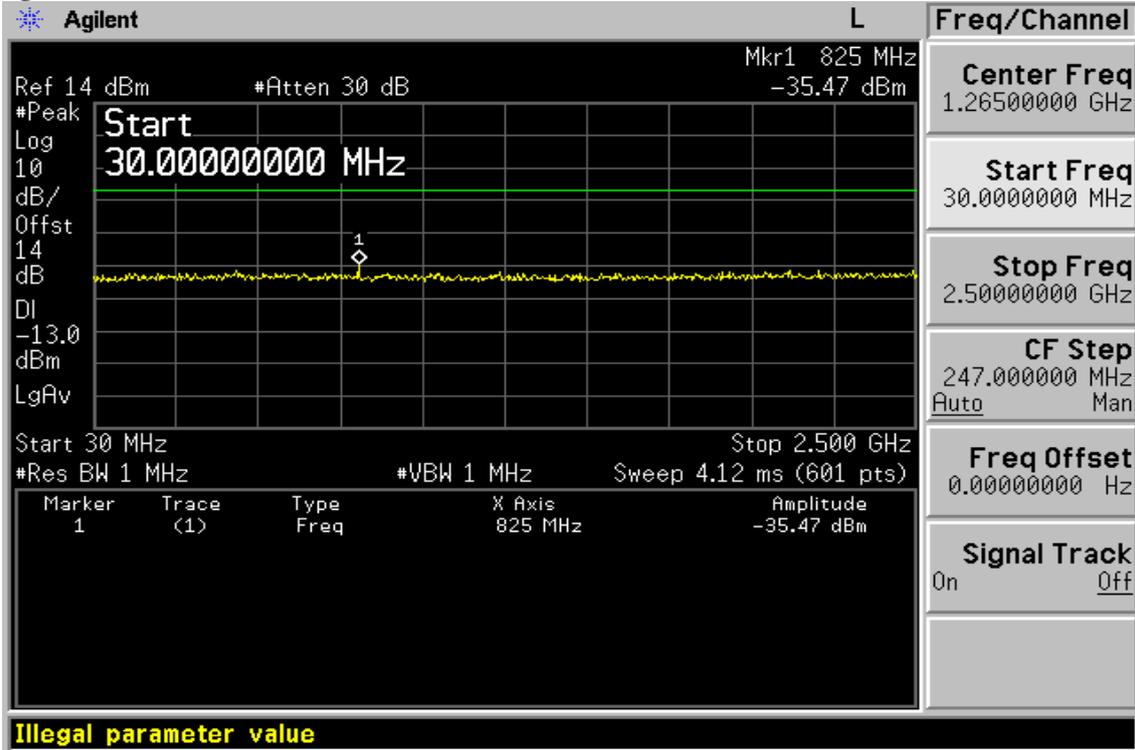


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Figure 8-11: Out of Band emission at antenna terminals– EDGE 850 Channel Lowest

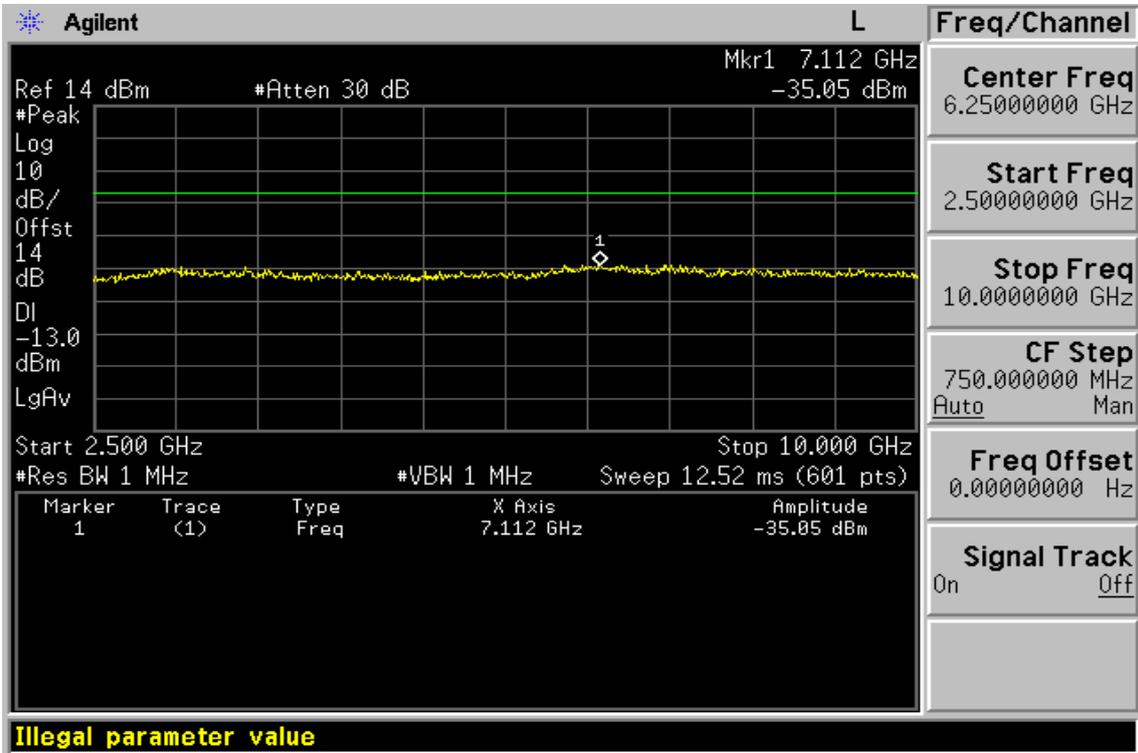
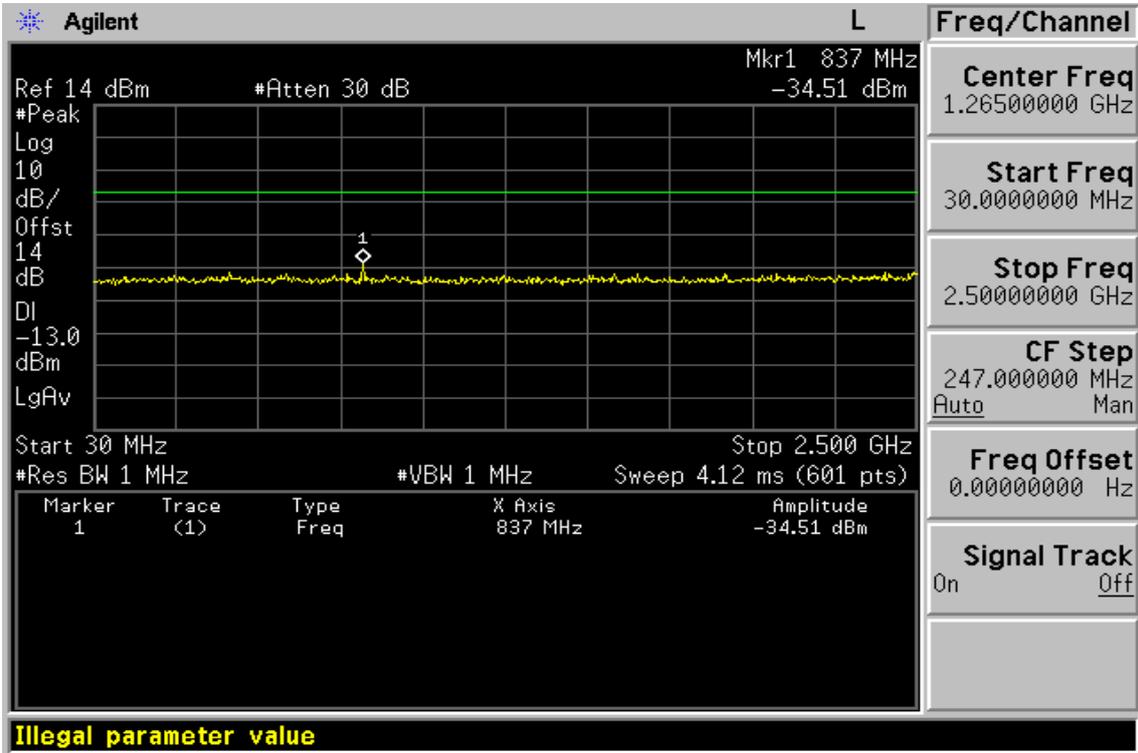


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Figure 8-12: Out of Band emission at antenna terminals –EDGE 850 Channel Mid

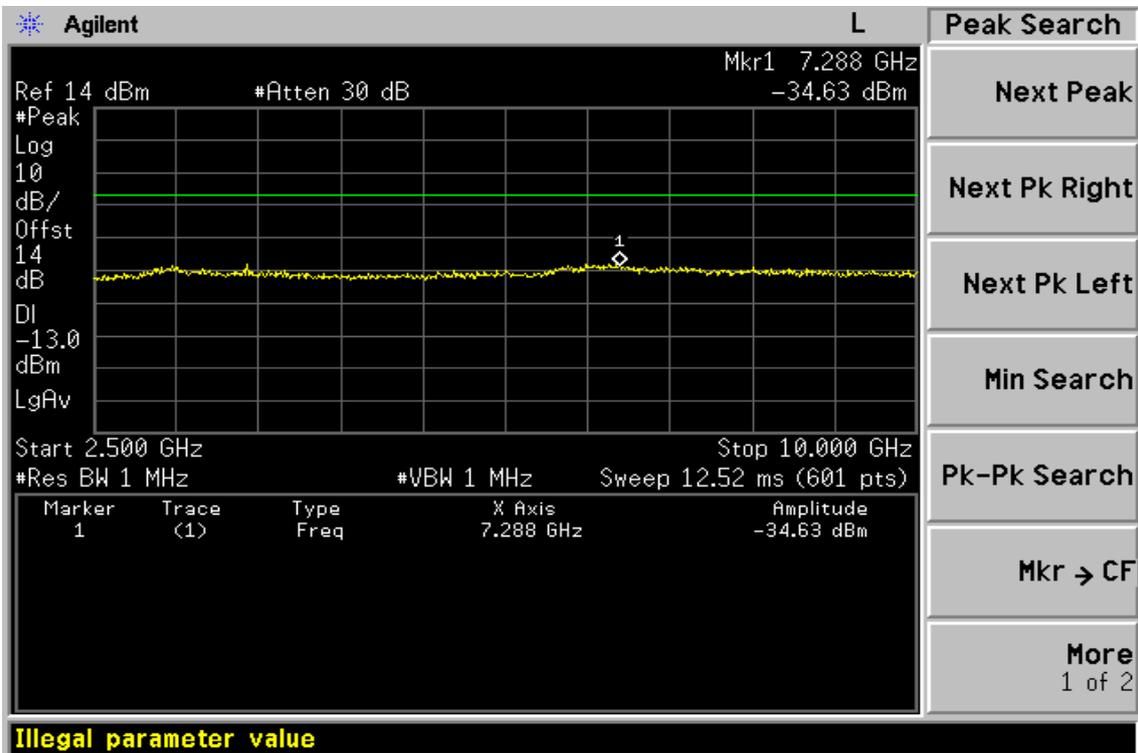
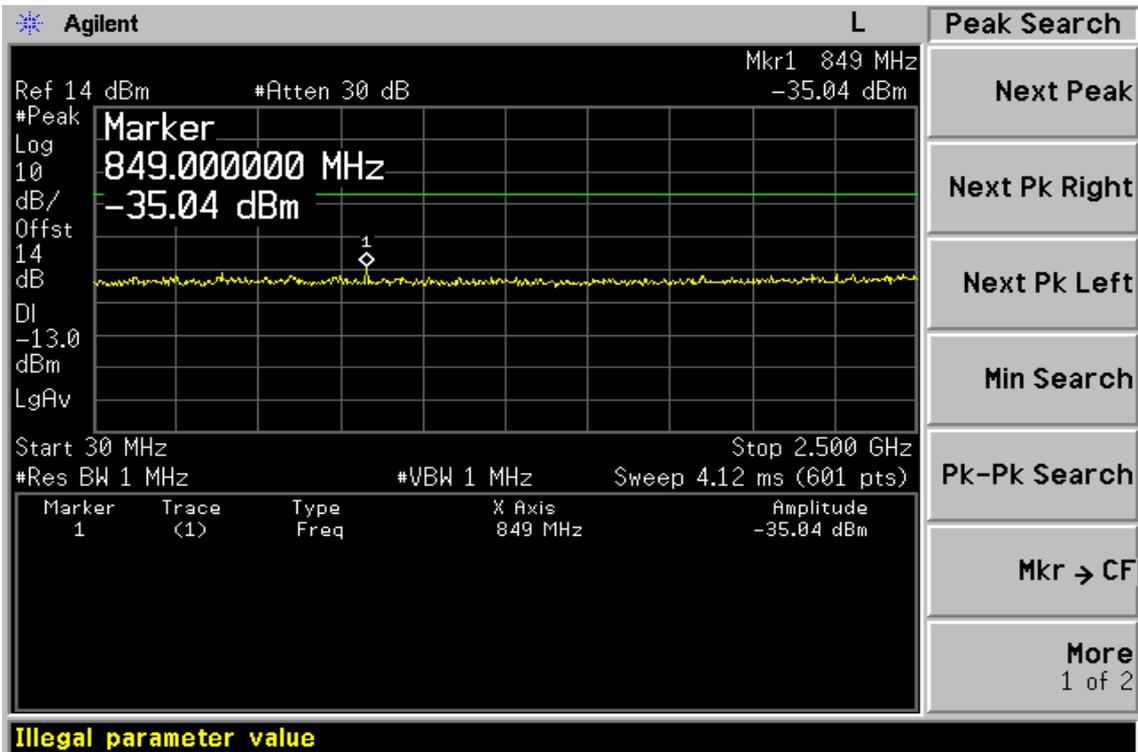


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Figure 8-13: Out of Band emission at antenna terminals–EDGE 850 Channel Highest



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Figure 8-14: Band edge emission at antenna terminals – EDGE 850 Channel Lowest



Figure 8-15: Band edge emission at antenna terminals – EDGE 850 Channel Highest

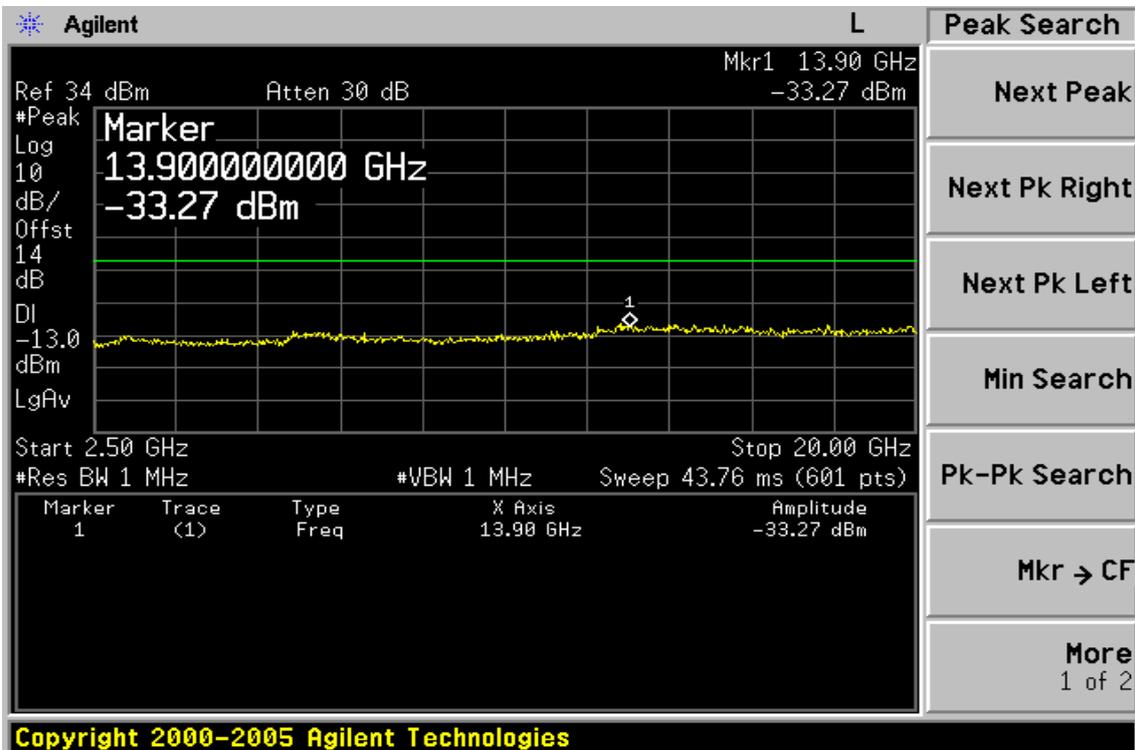
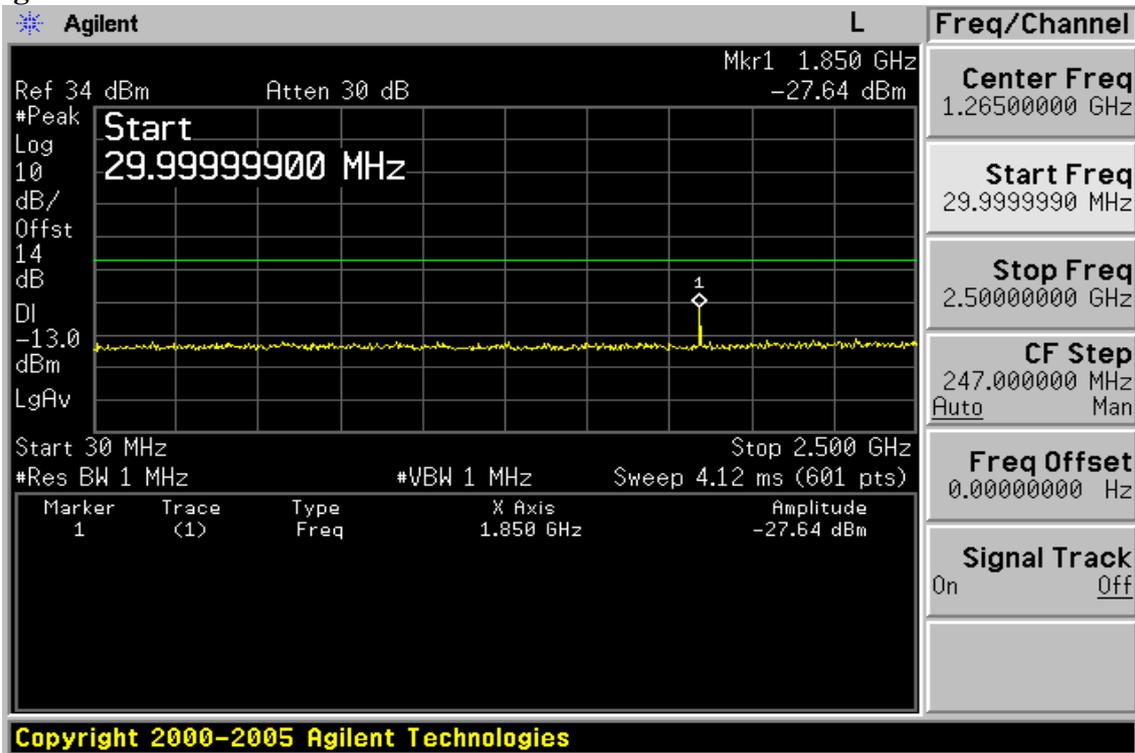


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Figure 8-16: Out of Band emission at antenna terminals– EDGE1900 Channel Lowest

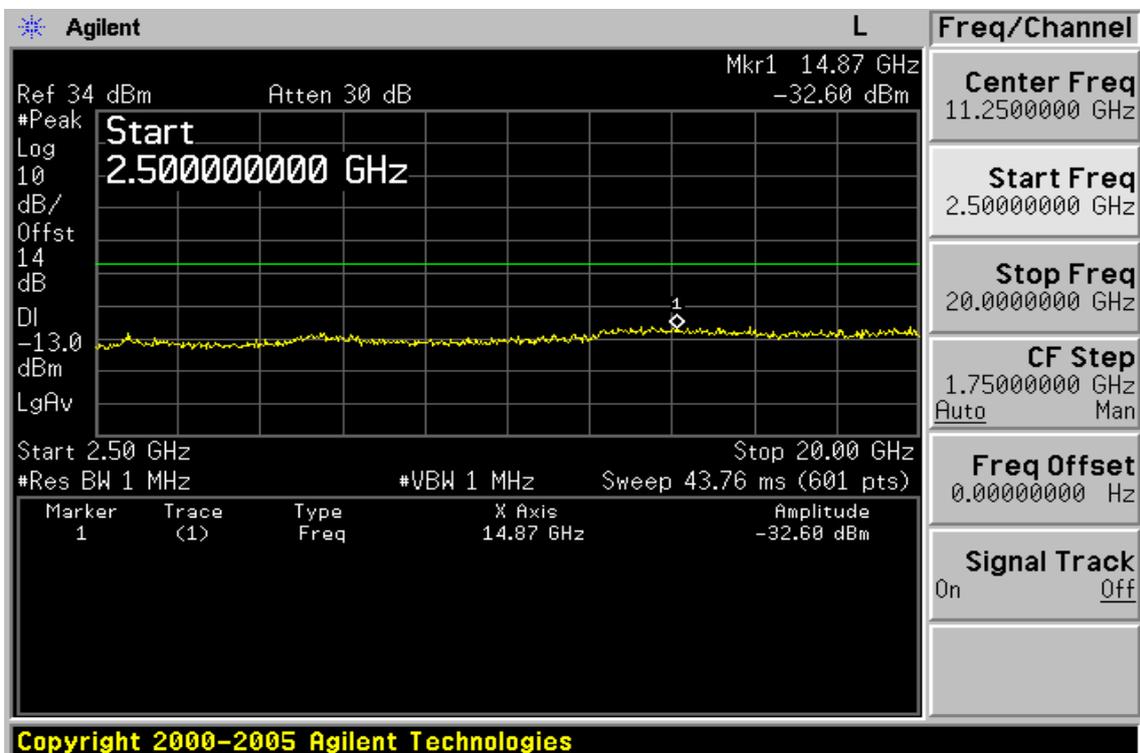
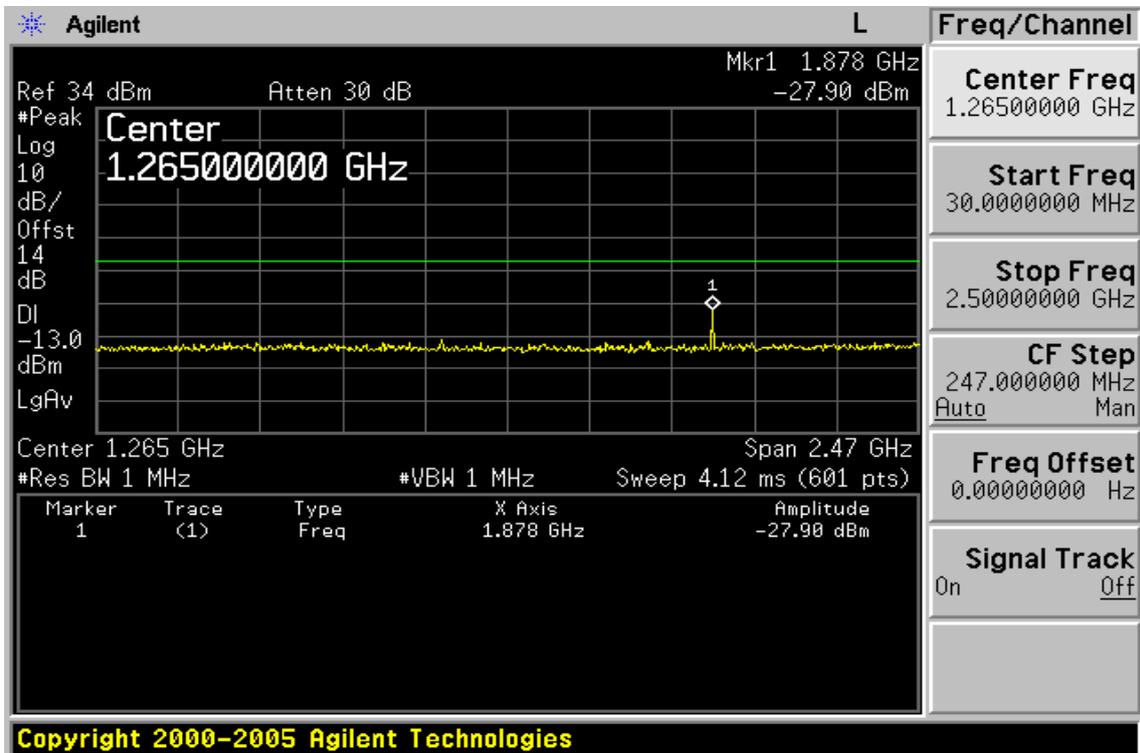


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**Figure 8-17: Out of Band emission at antenna terminals –EDGE1900 Channel Mid**

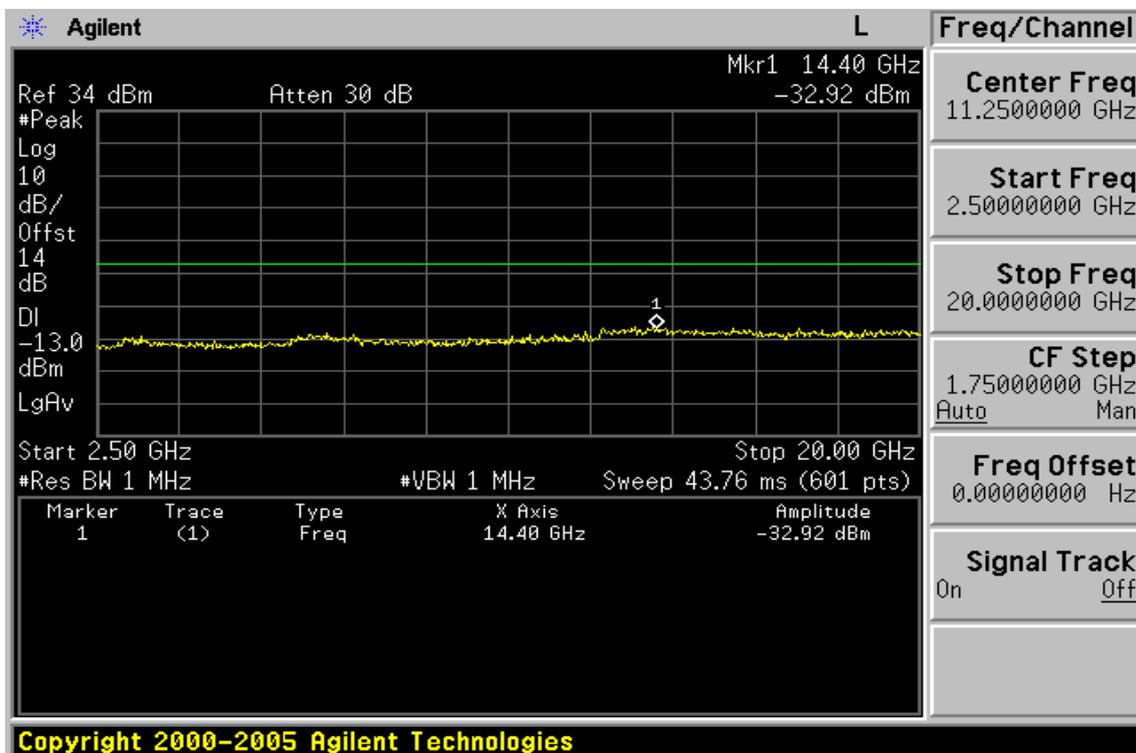
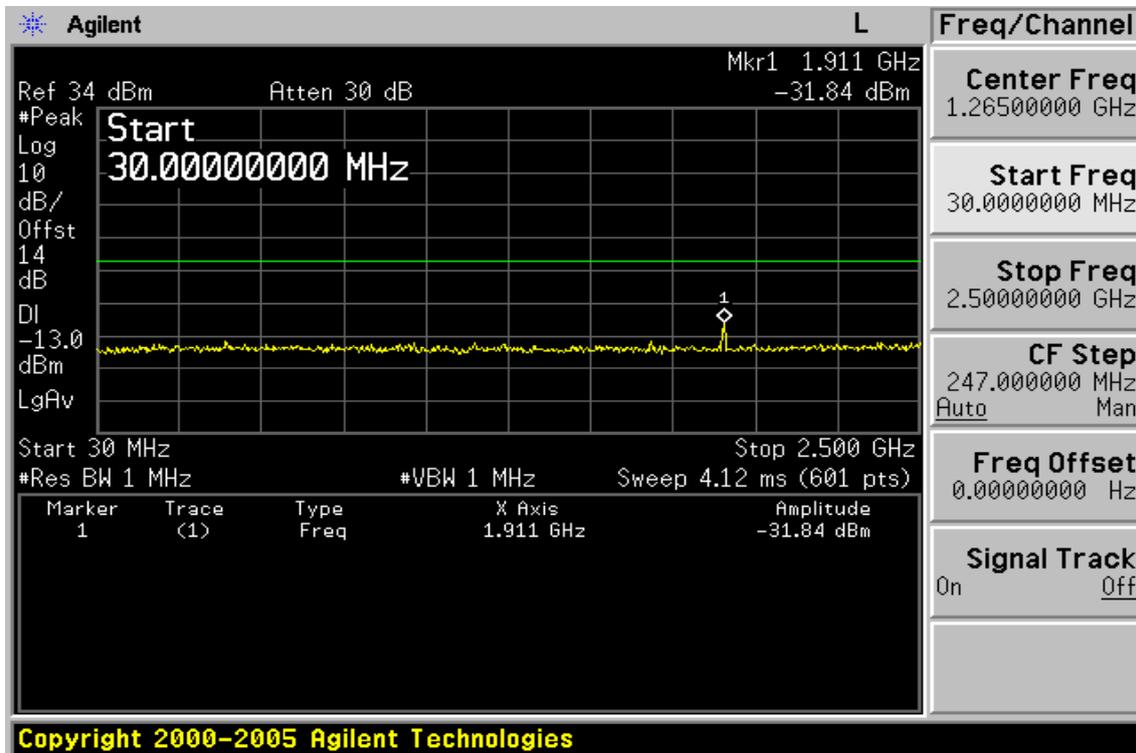


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Figure 8-18: Out of Band emission at antenna terminals–EDGE1900 Channel Highest

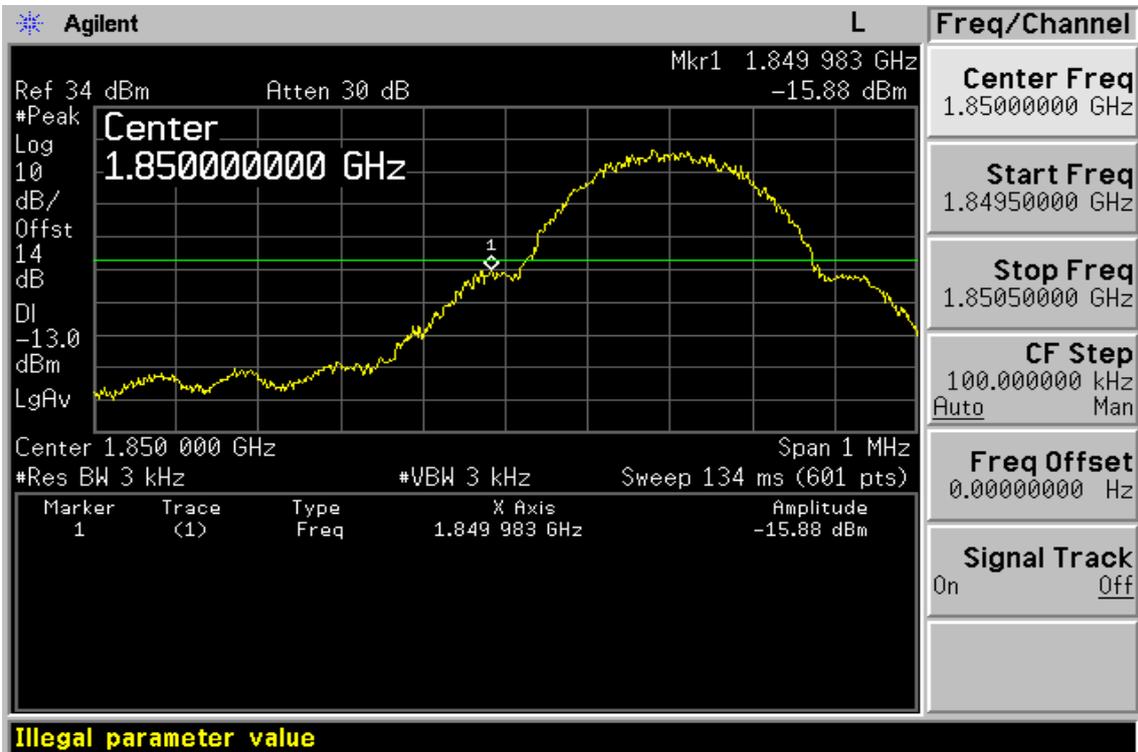


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**Figure 8-19: Bad edge emission at antenna terminals –EDGE1900 Channel Lowest**



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

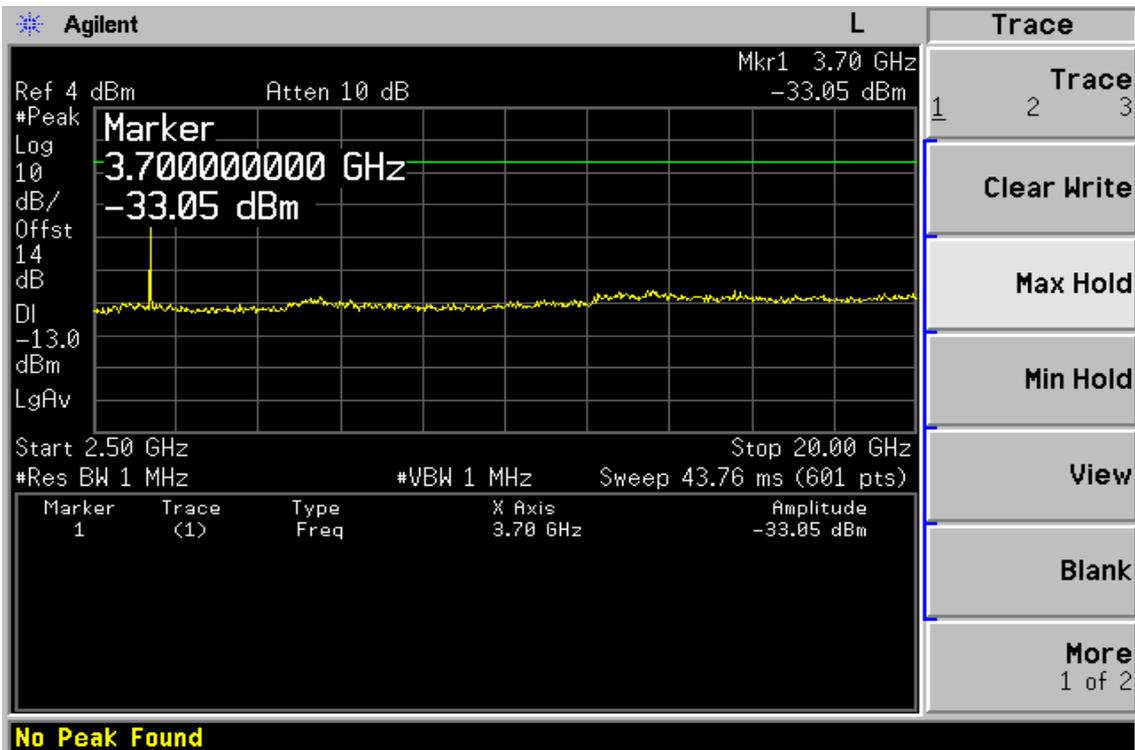
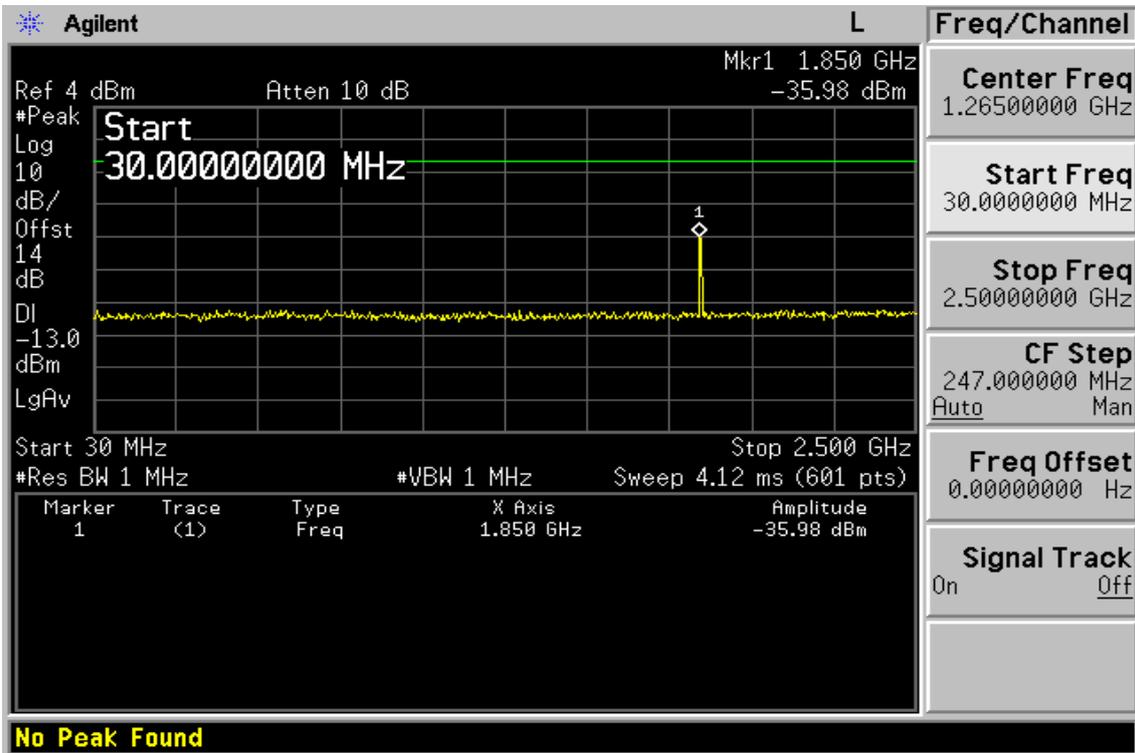


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Figure 8-21: Out of Band emission at antenna terminals– HSDPA Band II Channel Lowest

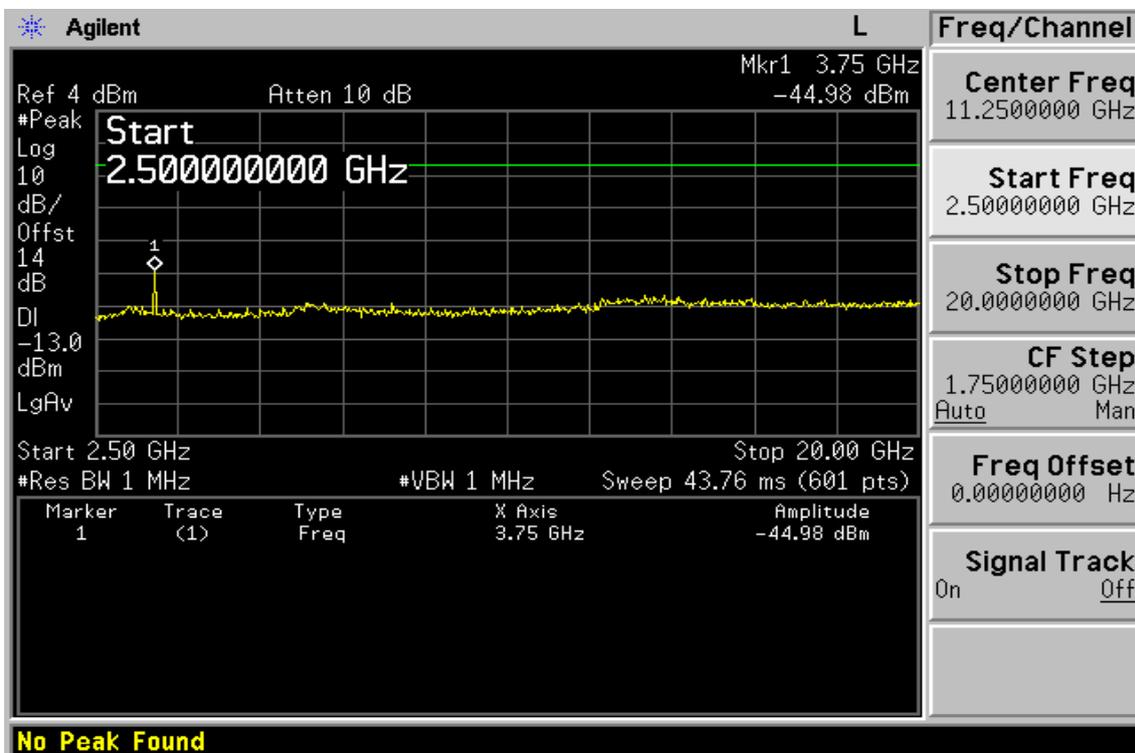
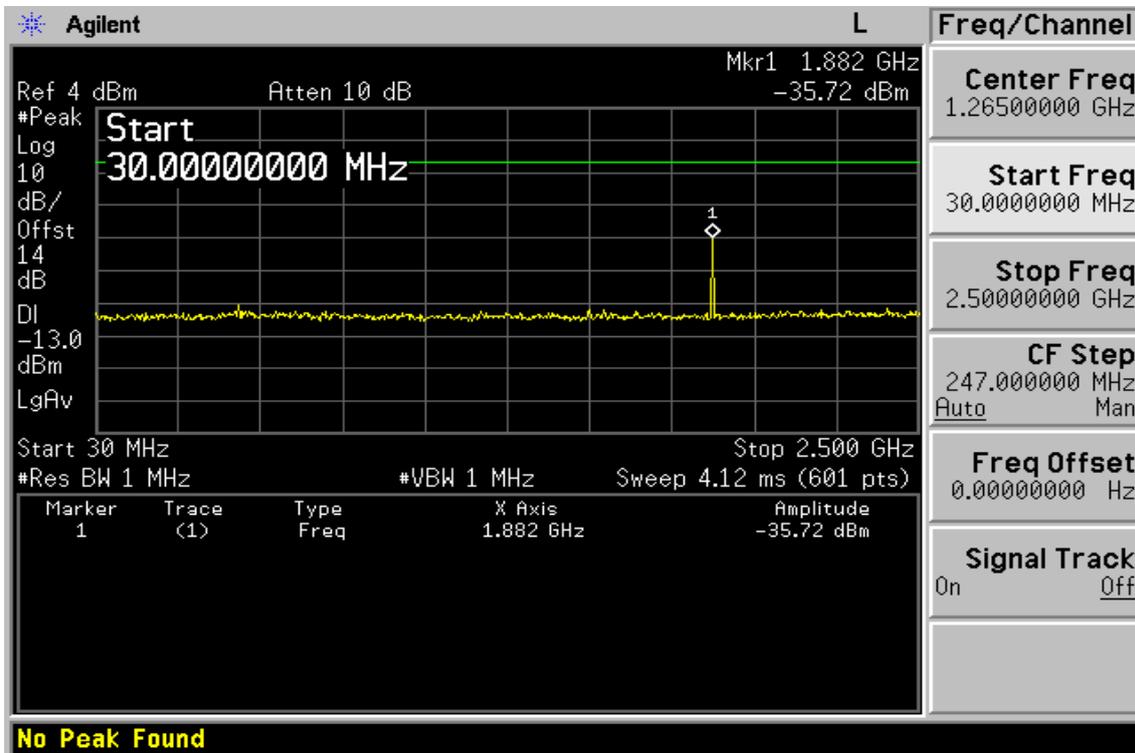


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Figure 8-22: Out of Band emission at antenna terminals –HSDPA Band II Channel Mid

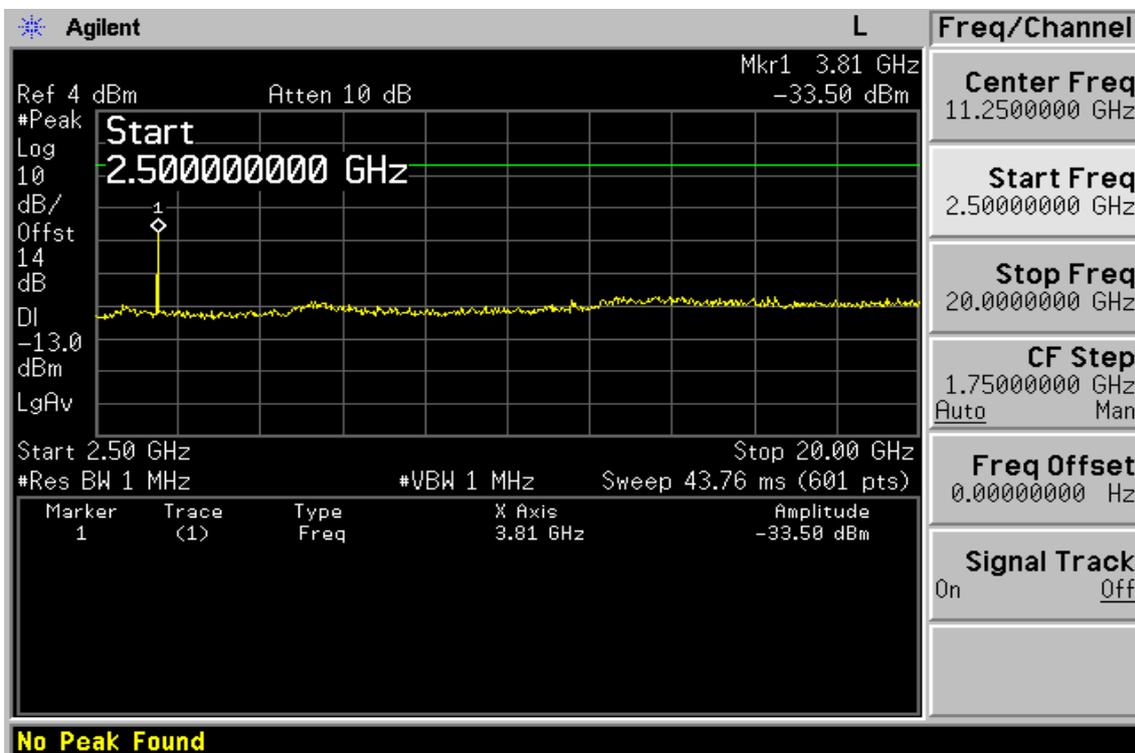
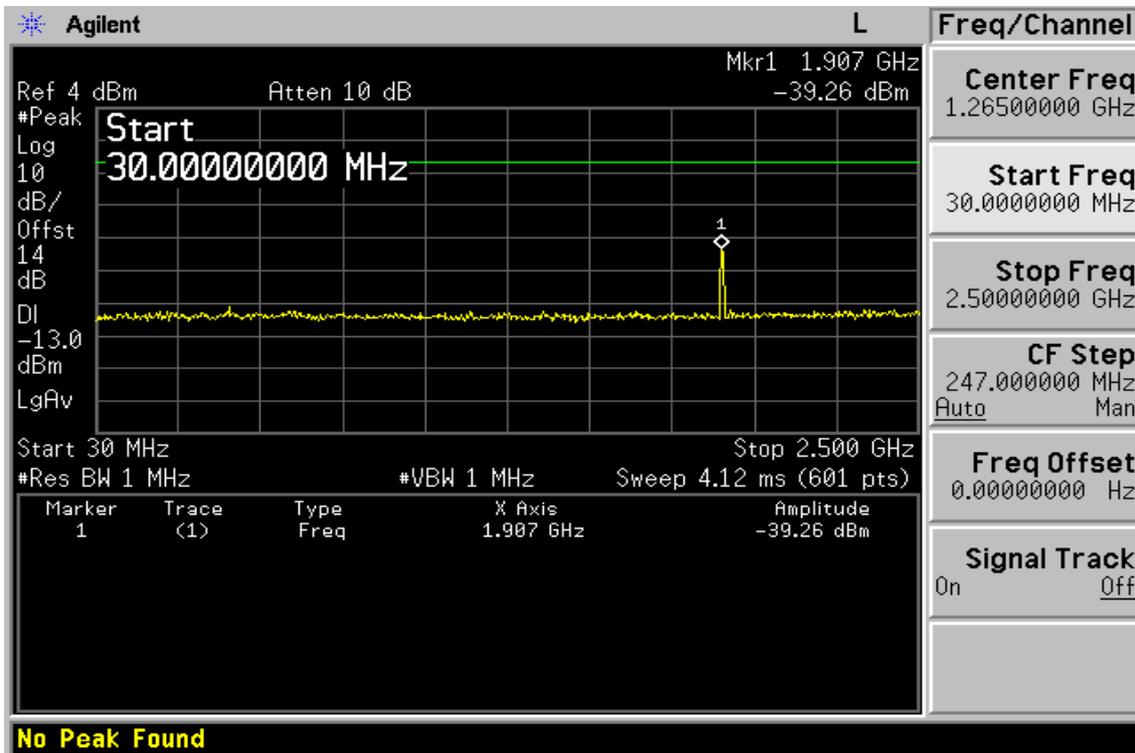


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Figure 8-23: Out of Band emission at antenna terminals–HSDPA BAND II Channel Highest



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Figure 8-24: Bad edge emission at antenna terminals –HSDPA BAND II Channel Lowest

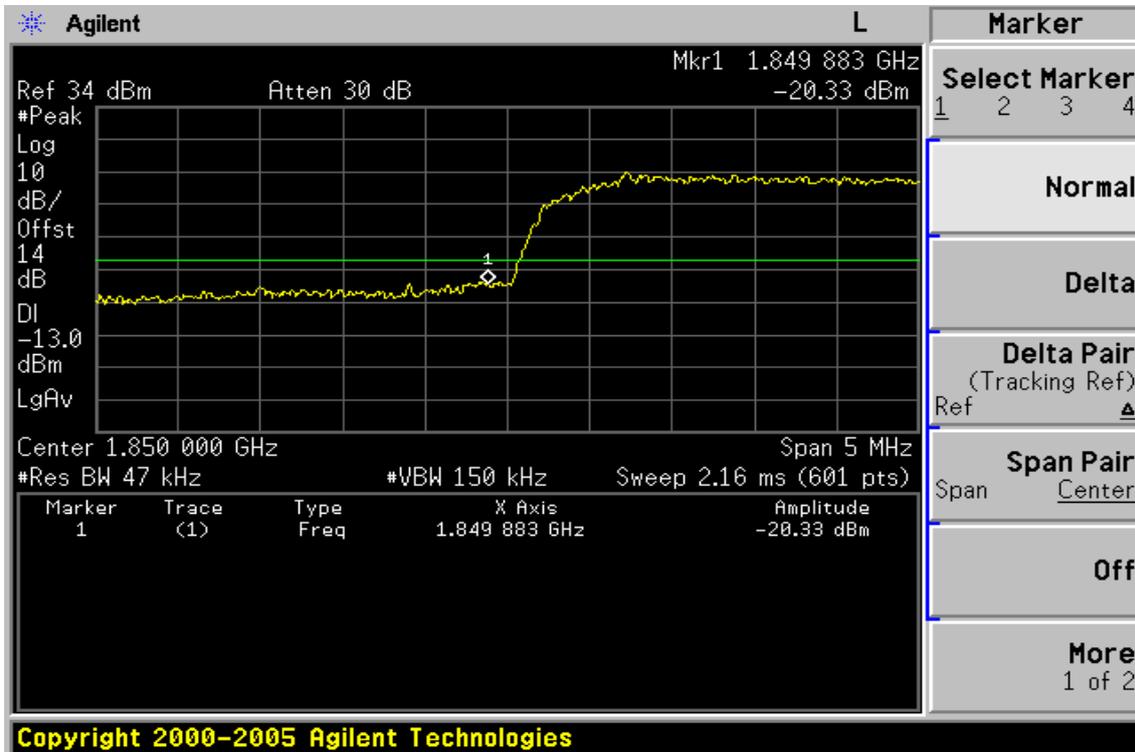
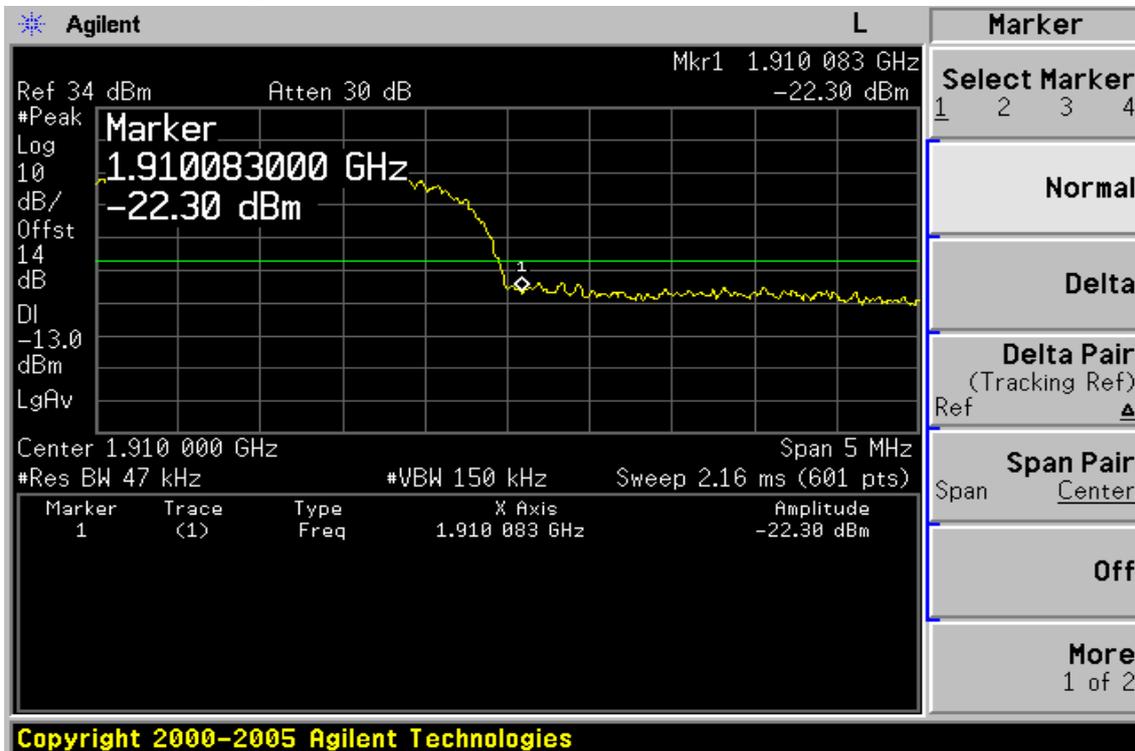


Figure 8-25: Band edge emission at antenna terminals –HSDPA BAND II Channel Highest

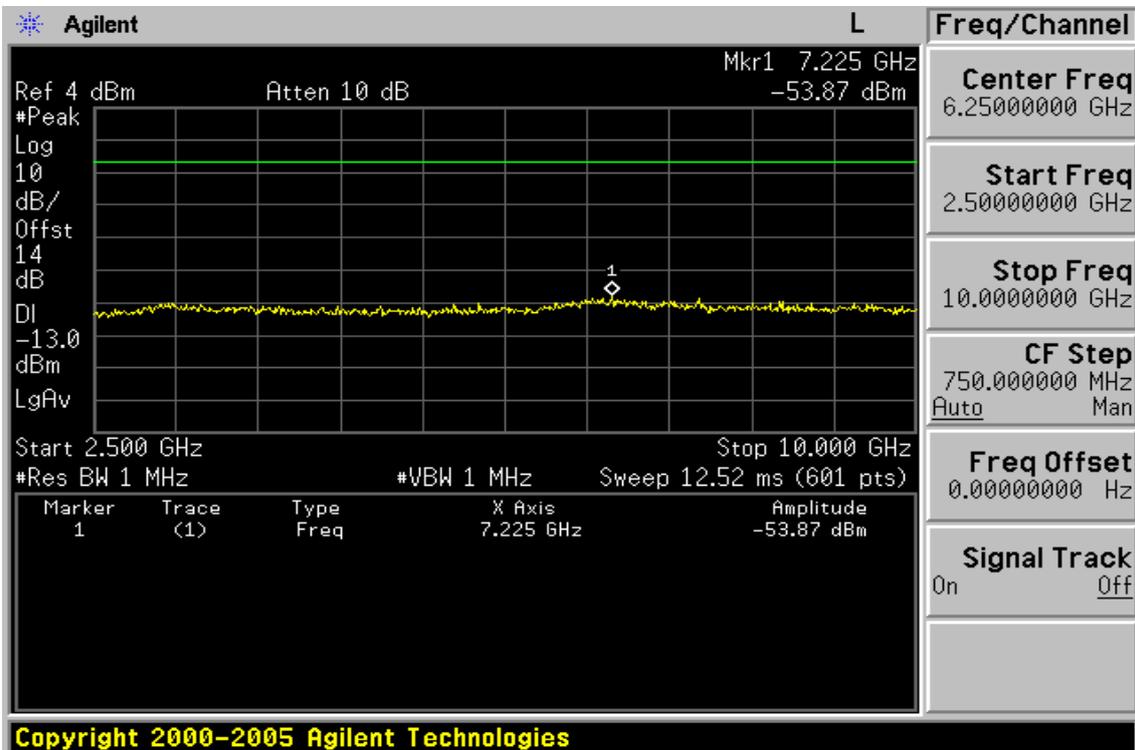
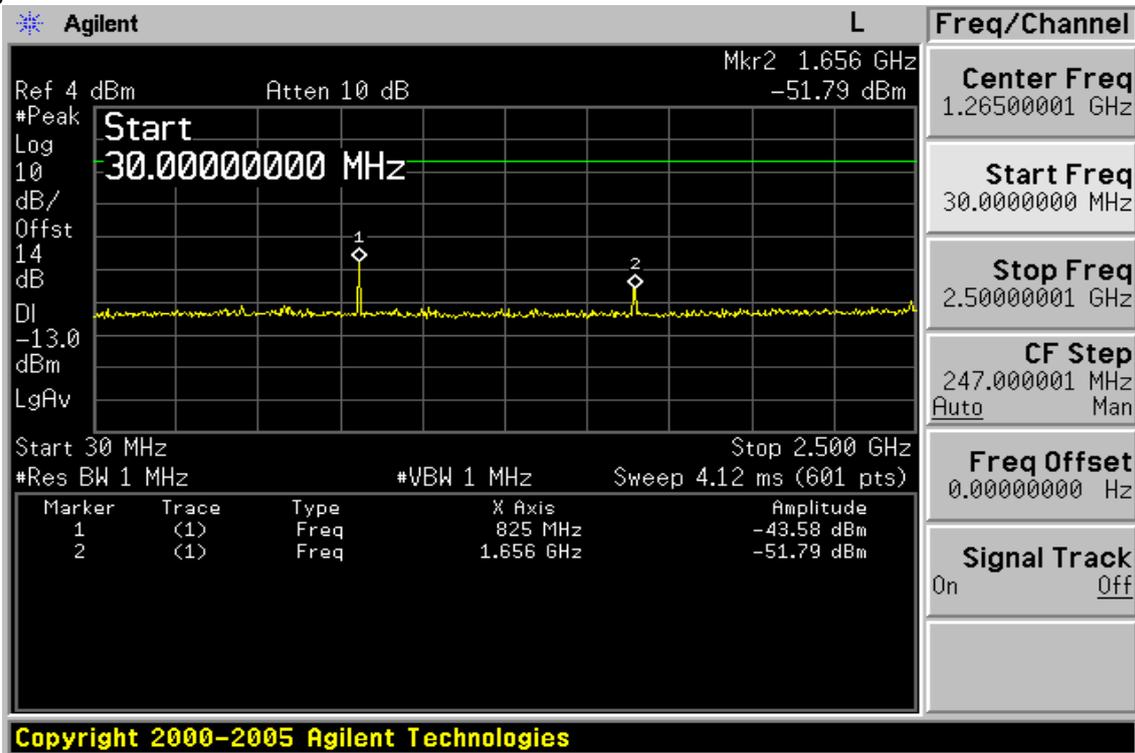


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Figure 8-26: Out of Band emission at antenna terminals–HSDPA Band V Channel Lowest

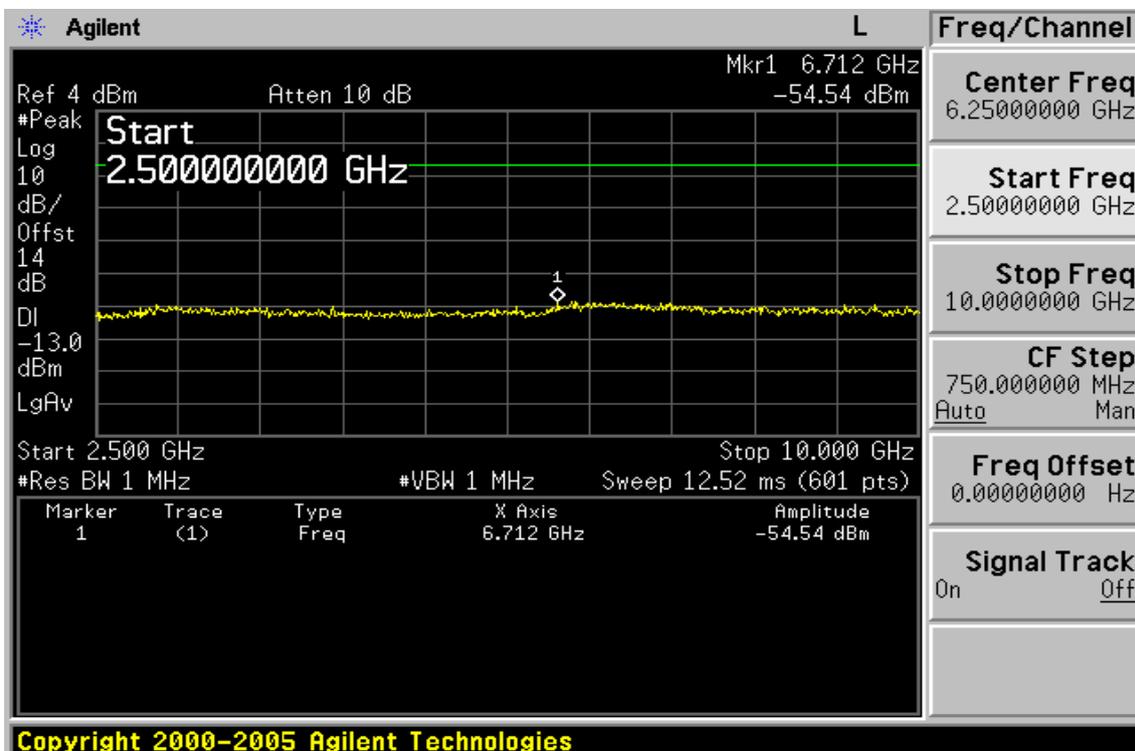
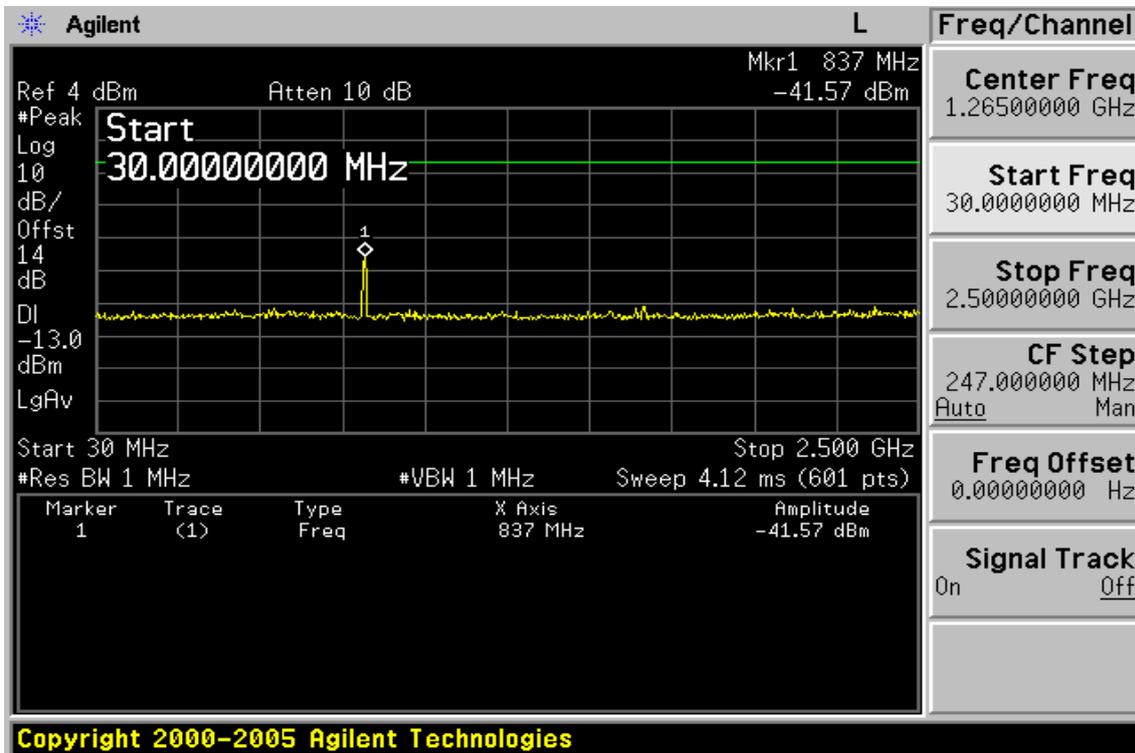


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Figure 8-27: Out of Band emission at antenna terminals –HSDPA Band V Channel Mid

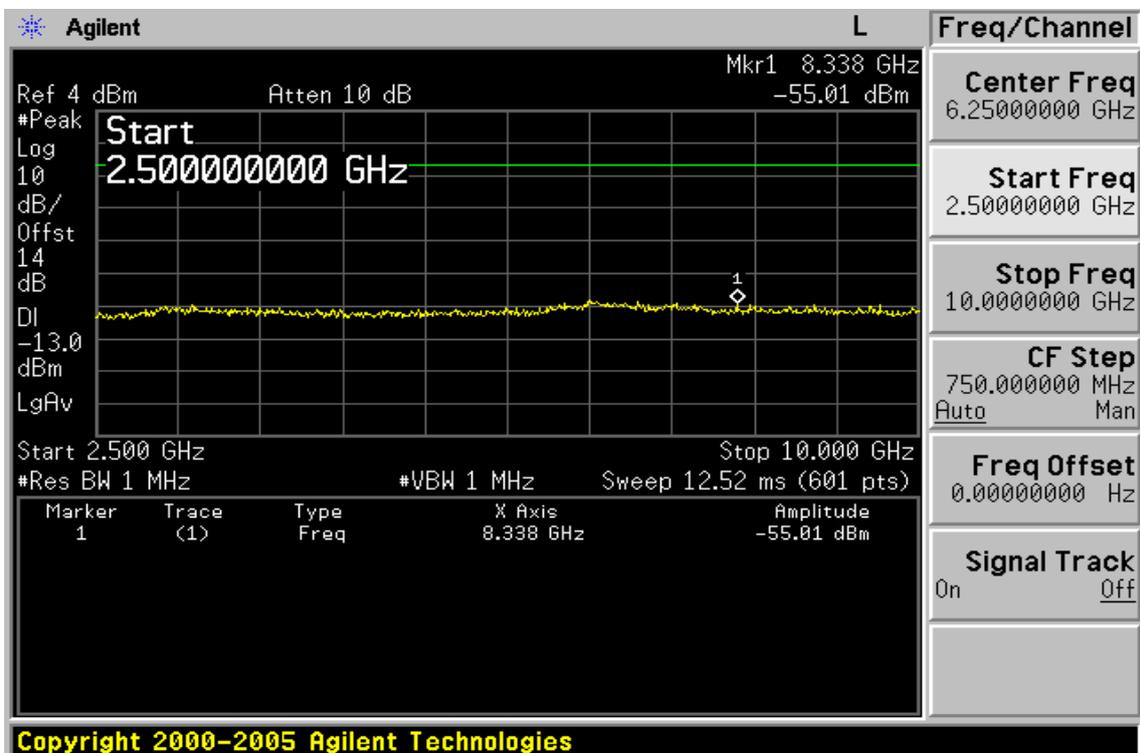
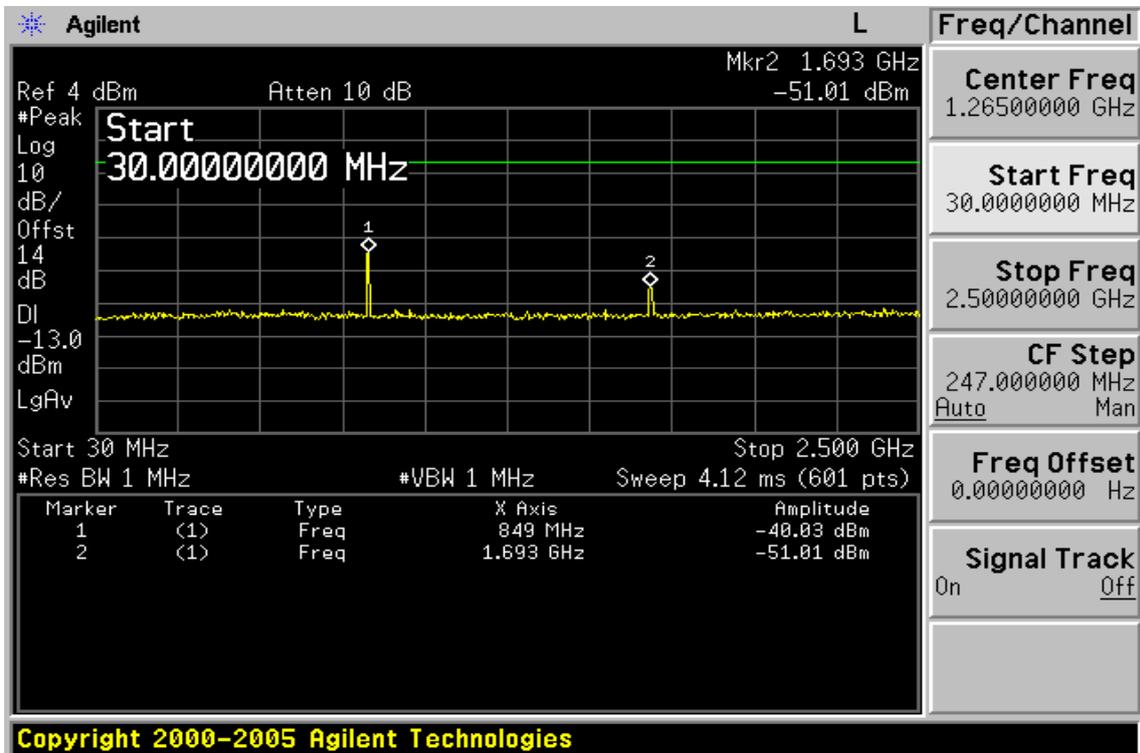


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Figure 8-28: Out of Band emission at antenna terminals–HSDPA BAND V Channel Highest



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Figure 8-29: Bad edge emission at antenna terminals –HSDPA BAND V Channel Lowest

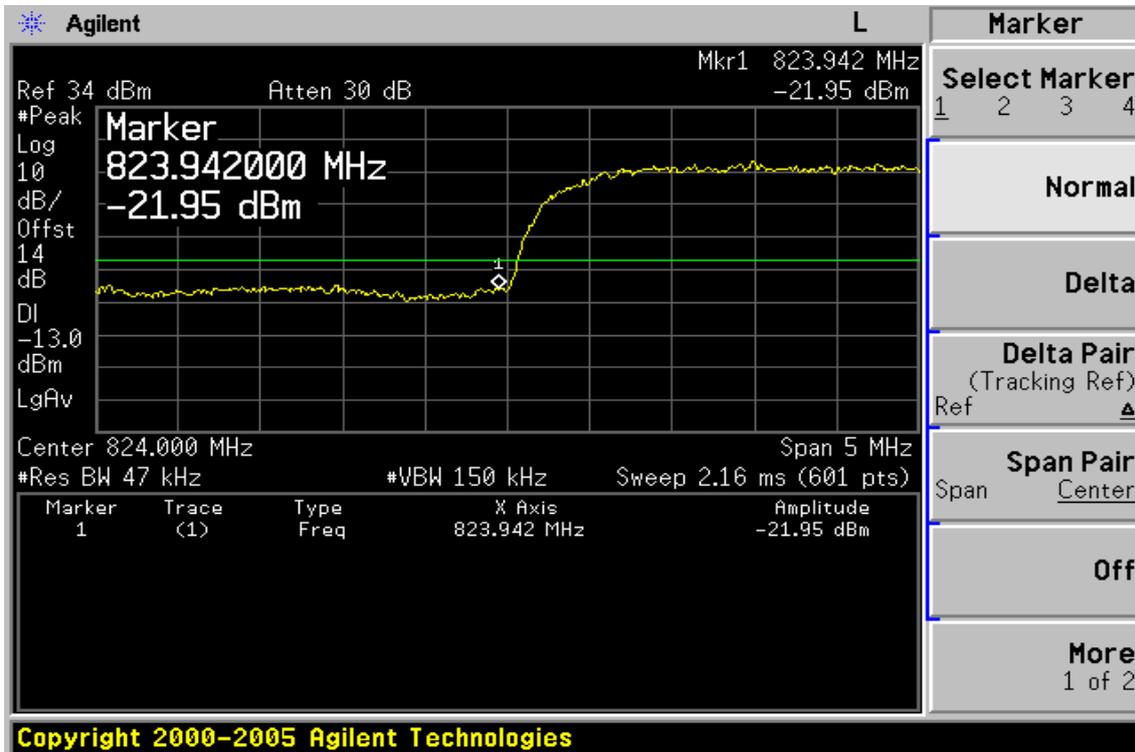
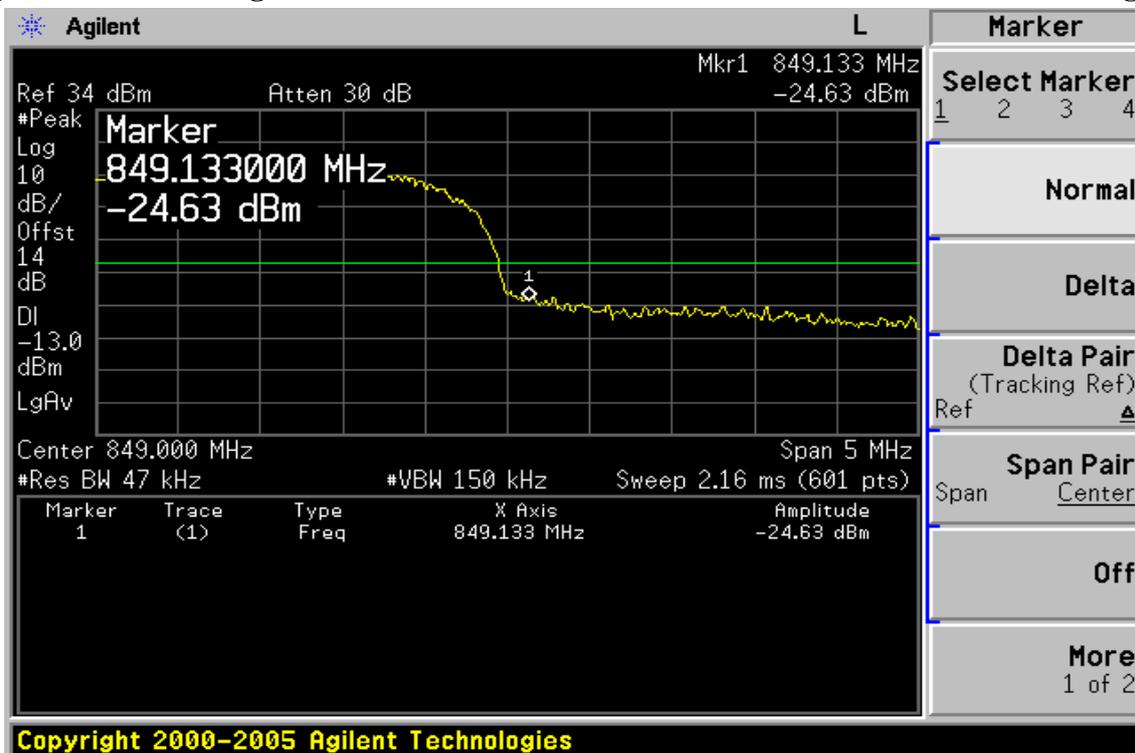


Figure 8-30: Band edge emission at antenna terminals –HSDPA BAND V Channel Highest



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## 9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

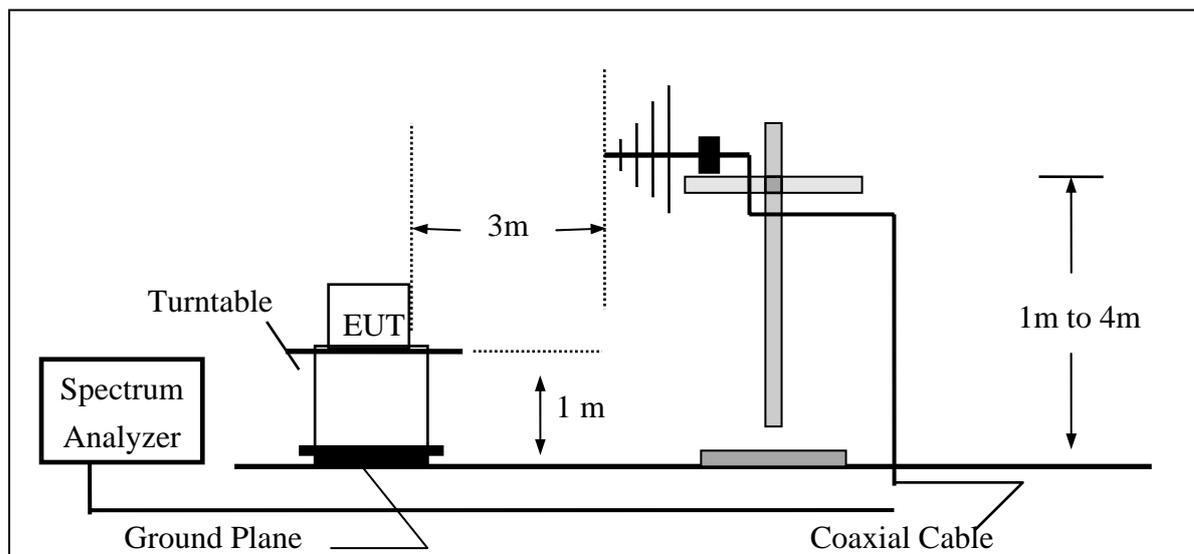
### 9.1. Standard Applicable

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

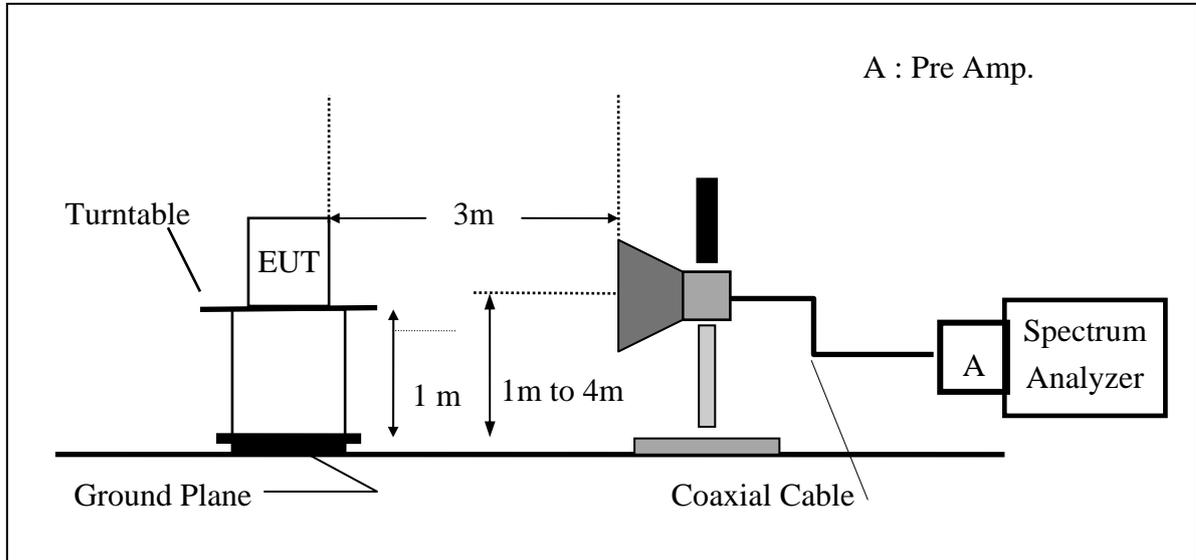


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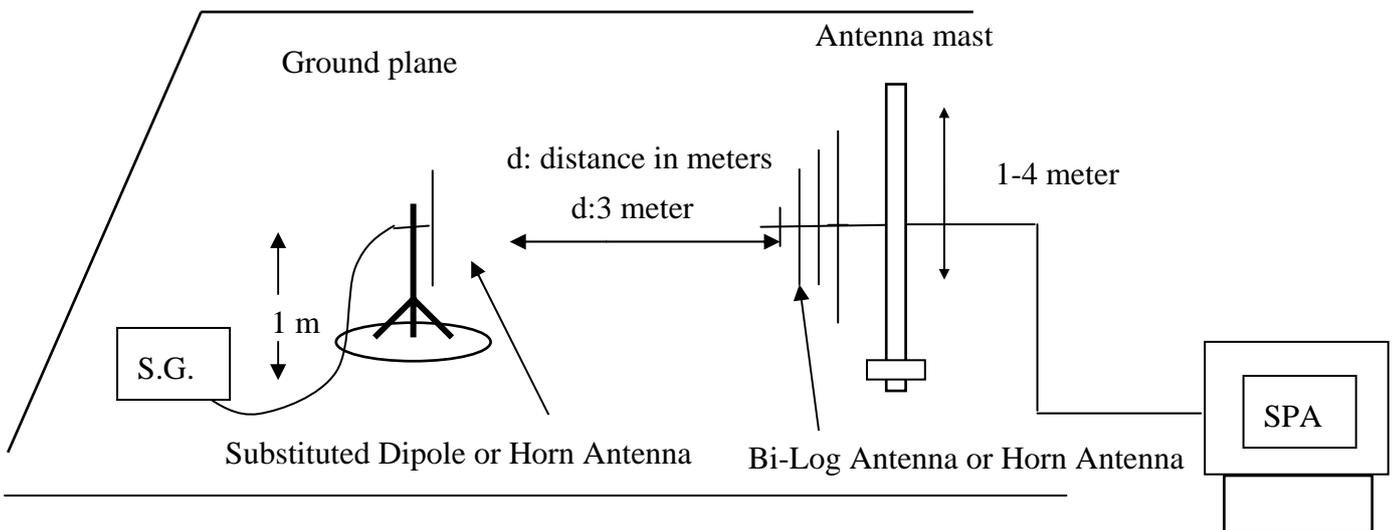
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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### 9.3. Measurement Procedure

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

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

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

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

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

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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	07/04/2007	07/03/2008
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

#### 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 H Mode	Test Date:	Jun. 20, 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)
92.08	40.01	V	-64.24	-7.75	1.17	-73.17	-13.00	-60.17
153.19	32.86	V	-65.04	-7.80	1.47	-74.31	-13.00	-61.31
182.29	36.78	V	-63.73	-7.83	1.53	-73.08	-13.00	-60.08
274.44	34.97	V	-65.18	-7.90	1.99	-75.07	-13.00	-62.07
363.68	39.93	V	-57.50	-7.65	2.46	-67.60	-13.00	-54.60
824.00	78.35	V	-8.98	-7.87	3.64	-20.50	-13.00	-7.50
1648.40	---	V		9.29	5.06		-13.00	
1693.00	42.17	V	-64.85	9.42	5.13	-60.56	-13.00	-47.56
2472.60	---	V		10.08	6.30		-13.00	
3296.80	---	V		12.17	7.26		-13.00	
4121.00	---	V		12.61	8.33		-13.00	
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 H Mode	Test Date:	Jun. 20, 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	40.69	H	-66.96	-0.58	0.91	-68.45	-13.00	-55.45
104.69	37.98	H	-64.79	-7.76	1.24	-73.79	-13.00	-60.79
182.29	42.44	H	-58.22	-7.83	1.53	-67.57	-13.00	-54.57
274.44	36.81	H	-63.46	-7.90	1.99	-73.35	-13.00	-60.35
363.68	48.18	H	-48.76	-7.65	2.46	-58.87	-13.00	-45.87
824.00	80.27	H	-7.39	-7.87	3.64	-18.91	-13.00	-5.91
1648.40	---	H		9.29	5.06		-13.00	
1693.00	46.92	H	-60.06	9.42	5.13	-55.77	-13.00	-42.77
2472.60	---	H		10.08	6.30		-13.00	
3296.80	---	H		12.17	7.26		-13.00	
4121.00	---	H		12.61	8.33		-13.00	
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  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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

Operation Mode	: TX CH Mid H Mode	Test Date:	Jun. 20, 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)
92.08	40.01	V	-64.24	-7.75	1.17	-73.17	-13.00	-60.17
153.19	31.64	V	-66.26	-7.80	1.47	-75.53	-13.00	-62.53
182.29	36.38	V	-64.13	-7.83	1.53	-73.48	-13.00	-60.48
274.44	38.03	V	-62.12	-7.90	1.99	-72.01	-13.00	-59.01
363.68	40.71	V	-56.72	-7.65	2.46	-66.82	-13.00	-53.82
1673.20	42.31	V	-64.72	9.36	5.10	-60.46	-13.00	-47.46
2509.80	---	V		10.09	6.35		-13.00	
3346.40	---	V		12.28	7.29		-13.00	
4183.00	---	V		12.62	8.40		-13.00	
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 H Mode	Test Date:	Jun. 20, 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)
104.69	38.59	H	-64.18	-7.76	1.24	-73.18	-13.00	-60.18
182.29	43.74	H	-56.92	-7.83	1.53	-66.27	-13.00	-53.27
274.44	34.50	H	-65.77	-7.90	1.99	-75.66	-13.00	-62.66
363.68	48.98	H	-47.96	-7.65	2.46	-58.07	-13.00	-45.07
523.73	33.86	H	-59.26	-7.74	2.73	-69.73	-13.00	-56.73
1673.20	53.31	H	-53.69	9.36	5.10	-49.42	-13.00	-36.42
2509.80	---	H		10.09	6.35		-13.00	
3346.40	---	H		12.28	7.29		-13.00	
4183.00	---	H		12.62	8.40		-13.00	
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 H Mode	Test Date:	Jun. 20, 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)
62.98	39.87	V	-71.58	-0.64	0.96	-73.19	-13.00	-60.19
96.93	39.34	V	-64.57	-7.76	1.20	-73.53	-13.00	-60.53
182.29	35.42	V	-65.09	-7.83	1.53	-74.44	-13.00	-61.44
274.44	36.97	V	-63.18	-7.90	1.99	-73.07	-13.00	-60.07
363.68	41.19	V	-56.24	-7.65	2.46	-66.34	-13.00	-53.34
850.00	79.22	V	-7.49	-7.88	3.75	-19.12	-13.00	-6.12
1697.60	42.17	V	-64.85	9.44	5.14	-60.56	-13.00	-47.56
2546.40	---	V		10.20	6.40		-13.00	
3395.20	---	V		12.38	7.33		-13.00	
4244.00	---	V		12.63	8.46		-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 H Mode	Test Date:	Jun. 20, 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)
62.98	38.14	H	-73.39	-0.64	0.96	-75.00	-13.00	-62.00
104.69	38.33	H	-64.44	-7.76	1.24	-73.44	-13.00	-60.44
182.29	42.92	H	-57.74	-7.83	1.53	-67.09	-13.00	-54.09
274.44	34.24	H	-66.03	-7.90	1.99	-75.92	-13.00	-62.92
363.68	48.38	H	-48.56	-7.65	2.46	-58.67	-13.00	-45.67
850.00	81.19	H	-5.80	-7.88	3.75	-17.43	-13.00	-4.43
1697.60	46.92	H	-60.06	9.44	5.14	-55.77	-13.00	-42.77
2546.40	---	H		10.20	6.40		-13.00	
3395.20	---	H		12.38	7.33		-13.00	
4244.00	---	H		12.63	8.46		-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	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 1850.20MHz	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)
63.95	39.32	V	-72.18	-0.70	0.97	-73.85	-13.00	-60.85
96.93	39.94	V	-63.97	-7.76	1.20	-72.93	-13.00	-59.93
182.29	35.48	V	-65.03	-7.83	1.53	-74.38	-13.00	-61.38
274.44	36.24	V	-63.91	-7.90	1.99	-73.80	-13.00	-60.80
363.68	41.77	V	-55.66	-7.65	2.46	-65.76	-13.00	-52.76
1850.00	81.37	V	-25.59	9.90	5.41	-21.10	-13.00	-8.10
3700.40	---	V		12.61	7.73		-13.00	
5550.60	---	V		13.23	9.68		-13.00	
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	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 1850.20MHz	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)
104.69	40.42	H	-62.35	-7.76	1.24	-71.35	-13.00	-58.35
182.29	42.69	H	-57.97	-7.83	1.53	-67.32	-13.00	-54.32
274.44	34.22	H	-66.05	-7.90	1.99	-75.94	-13.00	-62.94
363.68	48.85	H	-48.09	-7.65	2.46	-58.20	-13.00	-45.20
620.73	31.71	H	-59.39	-7.80	2.97	-70.15	-13.00	-57.15
1850.00	82.98	H	-23.91	9.90	5.41	-19.42	-13.00	-6.42
3700.40	---	H		12.61	7.73		-13.00	
5550.60	---	H		13.23	9.68		-13.00	
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	Test Date:	Jun. 20, 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	40.82	V	-66.76	-0.58	0.91	-68.24	-13.00	-55.24
104.69	40.42	V	-62.71	-7.76	1.24	-71.71	-13.00	-58.71
182.29	42.69	V	-57.82	-7.83	1.53	-67.17	-13.00	-54.17
274.44	35.25	V	-64.90	-7.90	1.99	-74.79	-13.00	-61.79
363.68	48.85	V	-48.58	-7.65	2.46	-58.68	-13.00	-45.68
3760.00	---	V		12.60	7.82		-13.00	
5640.00	---	V		13.36	9.73		-13.00	
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

Test Date: Jun. 20, 2008

Fundamental Frequency : 1880MHz

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)
104.69	39.75	H	-63.02	-7.76	1.24	-72.02	-13.00	-59.02
182.29	41.02	H	-59.64	-7.83	1.53	-68.99	-13.00	-55.99
274.44	35.55	H	-64.72	-7.90	1.99	-74.61	-13.00	-61.61
363.68	48.51	H	-48.43	-7.65	2.46	-58.54	-13.00	-45.54
455.83	33.08	H	-62.14	-7.70	2.58	-72.43	-13.00	-59.43
3760.00	---	H		12.60	7.82		-13.00	
5640.00	---	H		13.36	9.73		-13.00	
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:	Jun. 20, 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)
51.34	40.71	V	-66.87	-0.58	0.91	-68.35	-13.00	-55.35
101.78	39.67	V	-63.81	-7.76	1.23	-72.80	-13.00	-59.80
182.29	35.35	V	-65.16	-7.83	1.53	-74.51	-13.00	-61.51
274.44	36.50	V	-63.65	-7.90	1.99	-73.54	-13.00	-60.54
363.68	41.48	V	-55.95	-7.65	2.46	-66.05	-13.00	-53.05
1910.00	79.09	V	-27.85	10.08	5.51	-23.28	-13.00	-10.28
3981.60	---	V		12.60	8.17		-13.00	
5972.40	---	V		13.86	9.91		-13.00	
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:	Jun. 20, 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)
65.89	39.02	H	-72.83	-0.83	0.98	-74.64	-13.00	-61.64
104.69	39.38	H	-63.39	-7.76	1.24	-72.39	-13.00	-59.39
182.29	41.66	H	-59.00	-7.83	1.53	-68.35	-13.00	-55.35
349.13	36.63	H	-60.58	-7.64	2.47	-70.70	-13.00	-57.70
363.68	48.71	H	-48.23	-7.65	2.46	-58.34	-13.00	-45.34
1910.00	80.90	H	-25.95	10.08	5.51	-21.39	-13.00	-8.39
3981.60	---	H		12.60	8.17		-13.00	
5972.40	---	H		13.86	9.91		-13.00	
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: EDGE 850 Mode**

Operation Mode	: TX CH Low H Mode	Test Date:	Jun. 20, 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)
150.28	37.27	V	-60.37	-7.80	1.47	-69.63	-13.00	-56.63
276.38	35.74	V	-64.37	-7.91	1.99	-74.26	-13.00	-61.26
363.68	40.05	V	-57.38	-7.65	2.46	-67.48	-13.00	-54.48
604.24	33.96	V	-56.52	-7.79	2.95	-67.26	-13.00	-54.26
837.04	35.74	V	-51.28	-7.88	3.70	-62.85	-13.00	-49.85
824.00	70.36	V	-16.97	-7.87	3.64	-28.49	-13.00	-15.49
1648.40	41.20	V	-65.84	9.29	5.06	-61.61	-13.00	-48.61
2472.60	---	V		10.08	6.30		-13.00	
3296.80	---	V		12.17	7.26		-13.00	
4121.00	---	V		12.61	8.33		-13.00	
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: EDGE 850 Mode**

Operation Mode	: TX CH Low H Mode	Test Date:	Jun. 20, 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)
138.64	39.70	H	-59.93	-7.79	1.41	-69.13	-13.00	-56.13
276.38	36.25	H	-63.97	-7.91	1.99	-73.86	-13.00	-60.86
363.68	40.38	H	-56.56	-7.65	2.46	-66.67	-13.00	-53.67
638.19	34.20	H	-56.44	-7.81	2.99	-67.23	-13.00	-54.23
706.09	34.72	H	-54.84	-7.86	3.34	-66.04	-13.00	-53.04
824.00	75.47	H	-12.18	-7.87	3.64	-23.70	-13.00	-10.70
1648.40	47.95	H	-59.06	9.29	5.06	-54.83	-13.00	-41.83
2472.60	---	H		10.08	6.30		-13.00	
3296.80	---	H		12.17	7.26		-13.00	
4121.00	---	H		12.61	8.33		-13.00	
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  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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

Operation Mode	: TX CH Mid H Mode	Test Date:	Jun. 20, 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)
138.64	38.64	V	-60.35	-7.79	1.41	-69.55	-13.00	-56.55
363.68	39.88	V	-57.55	-7.65	2.46	-67.65	-13.00	-54.65
426.73	34.61	V	-60.68	-7.68	2.49	-70.85	-13.00	-57.85
604.20	33.42	V	-57.06	-7.79	2.95	-67.80	-13.00	-54.80
706.09	34.66	V	-55.13	-7.86	3.34	-66.32	-13.00	-53.32
1673.20	42.24	V	-64.79	9.36	5.10	-60.53	-13.00	-47.53
2509.80	---	V		10.09	6.35		-13.00	
3346.40	---	V		12.28	7.29		-13.00	
4183.00	---	V		12.62	8.40		-13.00	
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: EDGE 850 Mode**

Operation Mode	: TX CH High H Mode	Test Date:	Jun. 20, 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)
150.28	37.87	V	-59.77	-7.80	1.47	-69.03	-13.00	-56.03
363.68	36.24	V	-61.19	-7.65	2.46	-71.29	-13.00	-58.29
426.73	33.21	V	-62.08	-7.68	2.49	-72.25	-13.00	-59.25
628.49	34.05	V	-56.41	-7.80	2.97	-67.18	-13.00	-54.18
706.09	35.87	V	-53.92	-7.86	3.34	-65.11	-13.00	-52.11
850.00	70.72	V	-15.99	-7.88	3.75	-27.62	-13.00	-14.62
1697.60	44.99	V	-62.03	9.44	5.14	-57.74	-13.00	-44.74
2546.40	---	V		10.20	6.40		-13.00	
3395.20	---	V		12.38	7.33		-13.00	
4244.00	---	V		12.63	8.46		-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: EDGE 850 Mode**

Operation Mode	: TX CH High H Mode	Test Date:	Jun. 20, 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 Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
138.64	38.29	H	-61.34	-7.79	1.41	-70.54	-13.00	-57.54
276.38	35.82	H	-64.40	-7.91	1.99	-74.29	-13.00	-61.29
363.68	40.48	H	-56.46	-7.65	2.46	-66.57	-13.00	-53.57
638.19	34.25	H	-56.39	-7.81	2.99	-67.18	-13.00	-54.18
706.09	34.84	H	-54.72	-7.86	3.34	-65.92	-13.00	-52.92
850.00	76.76	H	-10.23	-7.88	3.75	-21.86	-13.00	-8.86
1697.60	49.80	H	-57.18	9.44	5.14	-52.89	-13.00	-39.89
2546.40	---	H		10.20	6.40		-13.00	
3395.20	---	H		12.38	7.33		-13.00	
4244.00	---	H		12.63	8.46		-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: EDGE 1900 Mode**

Operation Mode	: TX CH Low H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 1850.20MHz	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)
300.63	67.84	H	-31.74	-7.92	1.99	-41.65	-13.00	-28.65
470.38	77.25	H	-17.53	-7.71	2.63	-27.87	-13.00	-14.87
623.64	57.50	H	-33.52	-7.80	2.97	-44.29	-13.00	-31.29
720.64	60.83	H	-28.38	-7.86	3.37	-39.62	-13.00	-26.62
814.73	68.48	H	-19.42	-7.87	3.60	-30.90	-13.00	-17.90
1850.00	69.00	H	-37.89	9.90	5.41	-33.40	-13.00	-20.40
3700.40	---	H		12.61	7.73		-13.00	
5550.60	---	H		13.23	9.68		-13.00	
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: EDGE 1900 Mode**

Operation Mode	: TX CH Mid H Mode	Test Date:	Jun. 20, 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)
468.44	77.24	V	-17.38	-7.71	2.62	-27.71	-13.00	-14.71
528.58	56.70	V	-37.02	-7.74	2.74	-47.50	-13.00	-34.50
611.03	66.68	V	-23.80	-7.79	2.96	-34.55	-13.00	-21.55
720.64	57.83	V	-31.44	-7.86	3.37	-42.68	-13.00	-29.68
1868.00	67.96	V	-38.99	9.95	5.44	-34.48	-13.00	-21.48
3760.00	---	V		12.60	7.82		-13.00	
5640.00	---	V		13.36	9.73		-13.00	
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: EDGE 1900 Mode**

Operation Mode	: TX CH Mid H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 1880MHz	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)
300.63	66.64	H	-32.94	-7.92	1.99	-42.85	-13.00	-29.85
470.38	77.99	H	-16.79	-7.71	2.63	-27.13	-13.00	-14.13
623.64	56.11	H	-34.91	-7.80	2.97	-45.68	-13.00	-32.68
720.64	60.01	H	-29.20	-7.86	3.37	-40.44	-13.00	-27.44
1868.00	77.97	H	-28.91	9.95	5.44	-24.40	-13.00	-11.40
3760.00	---	H		12.60	7.82		-13.00	
5640.00	---	H		13.36	9.73		-13.00	
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: EDGE 1900 Mode**

Operation Mode	: TX CH High H Mode	Test Date:	Jun. 20, 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)
300.63	67.50	H	-32.08	-7.92	1.99	-41.99	-13.00	-28.99
470.38	77.83	H	-16.95	-7.71	2.63	-27.29	-13.00	-14.29
528.58	61.59	H	-31.37	-7.74	2.74	-41.85	-13.00	-28.85
623.64	56.97	H	-34.05	-7.80	2.97	-44.82	-13.00	-31.82
720.64	60.15	H	-29.06	-7.86	3.37	-40.30	-13.00	-27.30
1910.00	85.12	H	-21.73	10.08	5.51	-17.17	-13.00	-4.17
3814.00	51.18	H	-49.70	12.60	7.91	-45.00	-13.00	-32.00
3981.60	---	H		12.60	8.17		-13.00	
5972.40	---	H		13.86	9.91		-13.00	
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: HSDPA BAND II Mode**

Operation Mode	: TX CH Low H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 1852.40MHz	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)
298.69	59.76	V	-39.85	-7.92	1.99	-49.75	-13.00	-36.75
405.39	62.28	V	-33.62	-7.66	2.43	-43.72	-13.00	-30.72
528.58	55.47	V	-38.25	-7.74	2.74	-48.73	-13.00	-35.73
720.64	56.29	V	-32.98	-7.86	3.37	-44.22	-13.00	-31.22
814.73	47.80	V	-39.75	-7.87	3.60	-51.23	-13.00	-38.23
1850.00	71.29	V	-35.67	9.90	5.41	-31.18	-13.00	-18.18
3704.80	---	V		12.61	7.73		-13.00	
5557.20	---	V		13.24	9.69		-13.00	
7409.60	---	V		11.49	11.28		-13.00	
9262.00	---	V		11.92	13.10		-13.00	
11114.40	---	V		11.68	14.35		-13.00	
12966.80	---	V		13.62	16.00		-13.00	
14819.20	---	V		12.83	17.30		-13.00	
16671.60	---	V		15.87	19.09		-13.00	
18524.00	---	V		18.74	21.22		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: HSDPA BAND II Mode**

Operation Mode	: TX CH Low H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 1852.40MHz	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)
405.39	60.22	H	-36.02	-7.66	2.43	-46.11	-13.00	-33.11
528.58	60.63	H	-32.33	-7.74	2.74	-42.81	-13.00	-29.81
623.64	56.54	H	-34.48	-7.80	2.97	-45.25	-13.00	-32.25
720.64	60.66	H	-28.55	-7.86	3.37	-39.79	-13.00	-26.79
814.73	49.71	H	-38.19	-7.87	3.60	-49.67	-13.00	-36.67
1850.00	79.07	H	-27.82	9.90	5.41	-23.33	-13.00	-10.33
3704.80	49.53	H	-51.81	12.61	7.73	-46.94	-13.00	-33.94
5557.20	---	H		13.24	9.69		-13.00	
7409.60	---	H		11.49	11.28		-13.00	
9262.00	---	H		11.92	13.10		-13.00	
11114.40	---	H		11.68	14.35		-13.00	
12966.80	---	H		13.62	16.00		-13.00	
14819.20	---	H		12.83	17.30		-13.00	
16671.60	---	H		15.87	19.09		-13.00	
18524.00	---	H		18.74	21.22		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: HSDPA BAND II Mode**

Operation Mode	: TX CH Mid H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 1880MHz	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)
298.69	59.82	V	-39.79	-7.92	1.99	-49.69	-13.00	-36.69
402.48	62.13	V	-33.86	-7.66	2.42	-43.94	-13.00	-30.94
565.44	50.50	V	-41.76	-7.77	2.80	-52.33	-13.00	-39.33
623.64	52.03	V	-38.43	-7.80	2.97	-49.20	-13.00	-36.20
1868.00	55.25	V	-51.70	9.95	5.44	-47.19	-13.00	-34.19
3760.00	---	V		12.60	7.82		-13.00	
5640.00	---	V		13.36	9.73		-13.00	
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: HSDPA BAND II Mode**

Operation Mode	: TX CH Mid H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 1880MHz	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)
298.69	66.04	H	-33.60	-7.92	1.99	-43.51	-13.00	-30.51
405.39	62.24	H	-34.00	-7.66	2.43	-44.09	-13.00	-31.09
528.58	60.30	H	-32.66	-7.74	2.74	-43.14	-13.00	-30.14
623.64	56.02	H	-35.00	-7.80	2.97	-45.77	-13.00	-32.77
1868.00	64.85	H	-42.03	9.95	5.44	-37.52	-13.00	-24.52
3760.00	---	H		12.60	7.82		-13.00	
5640.00	---	H		13.36	9.73		-13.00	
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:
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**Radiated Spurious Emission Measurement Result: HSDPA BAND II Mode**

Operation Mode	: TX CH High H Mode	Test Date:	Jun. 20, 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 Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
232.73	59.81	V	-41.37	-7.87	1.84	-51.09	-13.00	-38.09
337.49	56.74	V	-41.61	-7.71	2.35	-51.67	-13.00	-38.67
405.39	62.71	V	-33.19	-7.66	2.43	-43.29	-13.00	-30.29
528.58	55.73	V	-37.99	-7.74	2.74	-48.47	-13.00	-35.47
720.64	55.31	V	-33.96	-7.86	3.37	-45.20	-13.00	-32.20
1910.00	65.65	V	-41.29	10.08	5.51	-36.72	-13.00	-23.72
3815.20	---	V		12.60	7.91		-13.00	
5722.80	---	V		13.48	9.78		-13.00	
7630.40	---	V		11.41	11.47		-13.00	
9538.00	---	V		11.95	13.21		-13.00	
11445.60	---	V		12.15	14.77		-13.00	
13353.20	---	V		13.00	16.21		-13.00	
15260.80	---	V		14.91	17.86		-13.00	
17168.40	---	V		14.53	19.76		-13.00	
19076.00	---	V		18.65	21.37		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: HSDPA BAND V Mode**

Operation Mode	: TX CH Low H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 826.4MHz	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)
245.34	38.32	V	-62.51	-7.89	1.95	-72.34	-13.00	-59.34
308.39	36.38	V	-62.92	-7.87	2.07	-72.87	-13.00	-59.87
455.83	34.35	V	-60.27	-7.70	2.58	-70.55	-13.00	-57.55
638.19	33.97	V	-56.47	-7.81	2.99	-67.27	-13.00	-54.27
824.43	36.73	V	-50.59	-7.87	3.64	-62.11	-13.00	-49.11
825.00	53.68	V	-33.63	-7.88	3.65	-45.15	-13.00	-32.15
1652.80	---	V		9.30	5.06		-13.00	
1749.00	47.45	V	-59.55	9.59	5.23	-55.19	-13.00	-42.19
2479.20	---	V		10.07	6.31		-13.00	
3305.60	---	V		12.19	7.26		-13.00	
4132.00	---	V		12.62	8.34		-13.00	
4958.40	---	V		12.65	9.20		-13.00	
5784.80	---	V		13.58	9.81		-13.00	
6611.20	---	V		12.03	10.63		-13.00	
7437.60	---	V		11.48	11.29		-13.00	
8264.00	---	V		11.50	12.29		-13.00	
Measurement uncertainty	30MHz - 80MHz: 5.04dB							
	80MHz - 1000MHz: 3.76dB							
	1GHz - 13GHz: 4.45dB							

Remark :

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

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**Radiated Spurious Emission Measurement Result: HSDPA BAND V Mode**

Operation Mode	: TX CH Low H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 826.4MHz	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)
143.49	38.87	H	-60.31	-7.79	1.43	-69.54	-13.00	-56.54
308.39	42.15	H	-57.05	-7.87	2.07	-66.99	-13.00	-53.99
363.68	37.40	H	-59.54	-7.65	2.46	-69.65	-13.00	-56.65
455.83	34.46	H	-60.76	-7.70	2.58	-71.05	-13.00	-58.05
638.19	35.76	H	-54.88	-7.81	2.99	-65.67	-13.00	-52.67
825.00	56.34	H	-31.30	-7.88	3.65	-42.82	-13.00	-29.82
1652.80	40.15	H	-66.86	9.30	5.06	-62.62	-13.00	-49.62
2479.20	---	H		10.07	6.31		-13.00	
3305.60	---	H		12.19	7.26		-13.00	
4132.00	---	H		12.62	8.34		-13.00	
4958.40	---	H		12.65	9.20		-13.00	
5784.80	---	H		13.58	9.81		-13.00	
6611.20	---	H		12.03	10.63		-13.00	
7437.60	---	H		11.48	11.29		-13.00	
8264.00	---	H		11.50	12.29		-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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 台灣檢驗科技股份有限公司 t (886-2) 2299-3939 f (886-2) 2299-3279 [www.sgs.com.tw](http://www.sgs.com.tw)

**Radiated Spurious Emission Measurement Result: HSDPA BAND V Mode**

Operation Mode	: TX CH Mid H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 836.0MHz	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)
138.64	39.60	V	-59.39	-7.79	1.41	-68.59	-13.00	-55.59
245.34	37.86	V	-62.97	-7.89	1.95	-72.80	-13.00	-59.80
308.39	36.70	V	-62.60	-7.87	2.07	-72.55	-13.00	-59.55
426.73	34.04	V	-61.25	-7.68	2.49	-71.42	-13.00	-58.42
706.09	34.66	V	-55.13	-7.86	3.34	-66.32	-13.00	-53.32
1672.00	35.60	V	-71.43	9.36	5.10	-67.17	-13.00	-54.17
2508.00	---	V		10.08	6.35		-13.00	
3344.00	---	V		12.27	7.29		-13.00	
4180.00	---	V		12.62	8.39		-13.00	
5016.00	---	V		12.67	9.25		-13.00	
5852.00	---	V		13.68	9.84		-13.00	
6688.00	---	V		11.96	10.73		-13.00	
7524.00	---	V		11.45	11.34		-13.00	
8360.00	---	V		11.58	12.42		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: HSDPA BAND V Mode**

Operation Mode	: TX CH Mid H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 836.0MHz	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)
245.34	41.61	H	-59.37	-7.89	1.95	-69.21	-13.00	-56.21
308.39	41.87	H	-57.33	-7.87	2.07	-67.27	-13.00	-54.27
363.68	40.37	H	-56.57	-7.65	2.46	-66.68	-13.00	-53.68
638.19	36.72	H	-53.92	-7.81	2.99	-64.71	-13.00	-51.71
1672.00	36.62	H	-70.38	9.36	5.10	-66.11	-13.00	-53.11
2508.00	---	H		10.08	6.35		-13.00	
3344.00	---	H		12.27	7.29		-13.00	
4180.00	---	H		12.62	8.39		-13.00	
5016.00	---	H		12.67	9.25		-13.00	
5852.00	---	H		13.68	9.84		-13.00	
6688.00	---	H		11.96	10.73		-13.00	
7524.00	---	H		11.45	11.34		-13.00	
8360.00	---	H		11.58	12.42		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: HSDPA BAND V Mode**

Operation Mode	: TX CH High H Mode	Test Date:	Jun. 20, 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)
143.49	40.00	V	-58.40	-7.79	1.43	-67.63	-13.00	-54.63
245.34	37.49	V	-63.34	-7.89	1.95	-73.17	-13.00	-60.17
308.39	37.08	V	-62.22	-7.87	2.07	-72.17	-13.00	-59.17
426.73	33.00	V	-62.29	-7.68	2.49	-72.46	-13.00	-59.46
706.09	34.38	V	-55.41	-7.86	3.34	-66.60	-13.00	-53.60
850.00	52.75	V	-33.96	-7.88	3.75	-45.59	-13.00	-32.59
1693.20	41.70	V	-65.32	9.42	5.13	-61.03	-13.00	-48.03
2539.80	---	V		10.18	6.39		-13.00	
3386.40	---	V		12.36	7.32		-13.00	
4233.00	---	V		12.63	8.45		-13.00	
5079.60	---	V		12.73	9.31		-13.00	
5926.20	---	V		13.79	9.88		-13.00	
6772.80	---	V		11.87	10.84		-13.00	
7619.40	---	V		11.41	11.46		-13.00	
8466.00	---	V		11.68	12.56		-13.00	

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

Remark :

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

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**Radiated Spurious Emission Measurement Result: HSDPA BAND V Mode**

Operation Mode	: TX CH High H Mode	Test Date:	Jun. 20, 2008
Fundamental Frequency	: 846.60 MHz	Test By:	Jim
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
150.28	38.32	H	-60.28	-7.80	1.47	-69.55	-13.00	-56.55
245.34	41.31	H	-59.67	-7.89	1.95	-69.51	-13.00	-56.51
308.39	42.16	H	-57.04	-7.87	2.07	-66.98	-13.00	-53.98
363.68	36.45	H	-60.49	-7.65	2.46	-70.60	-13.00	-57.60
638.19	36.44	H	-54.20	-7.81	2.99	-64.99	-13.00	-51.99
850.00	59.03	H	-27.96	-7.88	3.75	-39.59	-13.00	-26.59
1693.20	45.44	H	-61.54	9.42	5.13	-57.25	-13.00	-44.25
2539.80	---	H		10.18	6.39		-13.00	
3386.40	---	H		12.36	7.32		-13.00	
4233.00	---	H		12.63	8.45		-13.00	
5079.60	---	H		12.73	9.31		-13.00	
5926.20	---	H		13.79	9.88		-13.00	
6772.80	---	H		11.87	10.84		-13.00	
7619.40	---	H		11.41	11.46		-13.00	
8466.00	---	H		11.68	12.56		-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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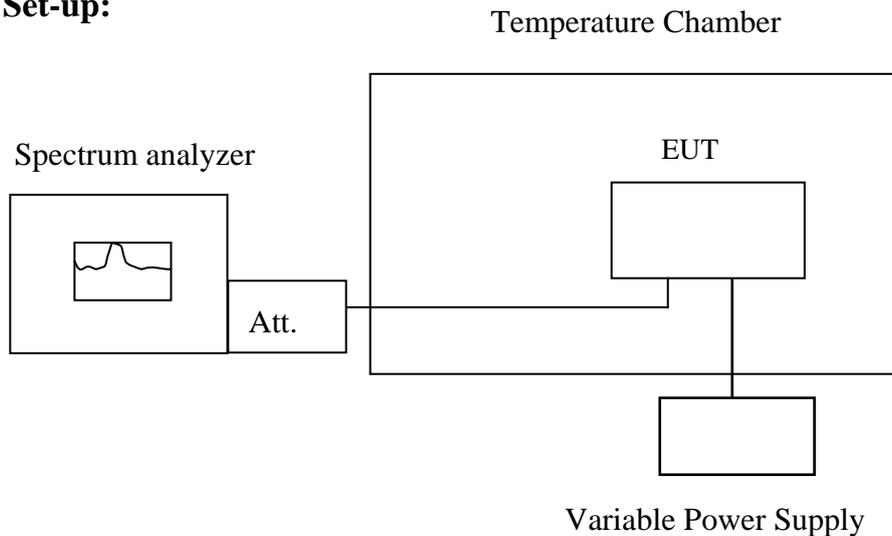
## 10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

### 10.1. Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: 2.5 ppm

### 10.2. Test Set-up:



**Note :** Measurement setup for testing on Antenna connector

### 10.3. Measurement Procedure

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

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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	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
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	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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### 10.5. Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5	-30	836.600008	-24.00	2091
5	-20	836.599997	-13.00	2091
5	-10	836.599984	0.00	2091
5	0	836.599972	12.00	2091
5	10	836.600001	-17.00	2091
5	20	836.599984	0.00	2091
5	30	836.599994	-10.00	2091
5	40	836.600008	-24.00	2091
5	50	836.600007	-23.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5	-30	1880.000006	-22.00	4700
5	-20	1880.000016	-32.00	4700
5	-10	1879.999999	-15.00	4700
5	0	1879.999974	10.00	4700
5	10	1879.999991	-7.00	4700
5	20	1879.999984	0.00	4700
5	30	1880.000006	-22.00	4700
5	40	1879.999983	1.00	4700
5	50	1879.999986	-2.00	4700

**Note: The battery is rated 5V dc.**

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Reference Frequency: EDGE 850 Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5	-30	836.600003	4.00	2091
5	-20	836.599997	10.00	2091
5	-10	836.599982	25.00	2091
5	0	836.600012	-5.00	2091
5	10	836.599991	16.00	2091
5	20	836.600007	0.00	2091
5	30	836.599984	23.00	2091
5	40	836.600013	-6.00	2091
5	50	836.599999	8.00	2091

Reference Frequency: EDGE 1900 Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5	-30	1880.000009	-39.00	4700
5	-20	1879.999974	-4.00	4700
5	-10	1880.000012	-42.00	4700
5	0	1879.999954	16.00	4700
5	10	1879.999983	-13.00	4700
5	20	1879.999970	0.00	4700
5	30	1879.999992	-22.00	4700
5	40	1879.999996	-26.00	4700
5	50	1879.999981	-11.00	4700

**Note: The battery is rated 5V dc.**

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Reference Frequency: HSDPA BAND II Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5	-30	1880.000006	-30.00	4700
5	-20	1879.999991	-15.00	4700
5	-10	1880.000001	-25.00	4700
5	0	1879.999983	-7.00	4700
5	10	1879.999992	-16.00	4700
5	20	1879.999976	0.00	4700
5	30	1879.999999	-23.00	4700
5	40	1880.000009	-33.00	4700
5	50	1880.000016	-40.00	4700

Reference Frequency: HSDPA BAND V Mid Channel 836.0 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5	-30	836.600001	-10.00	2091
5	-20	836.599998	-7.00	2091
5	-10	836.599982	9.00	2091
5	0	836.600012	-21.00	2091
5	10	836.599983	8.00	2091
5	20	836.599991	0.00	2091
5	30	836.599999	-8.00	2091
5	40	836.599986	5.00	2091
5	50	836.600009	-18.00	2091

**Note: The battery is rated 5V dc.**

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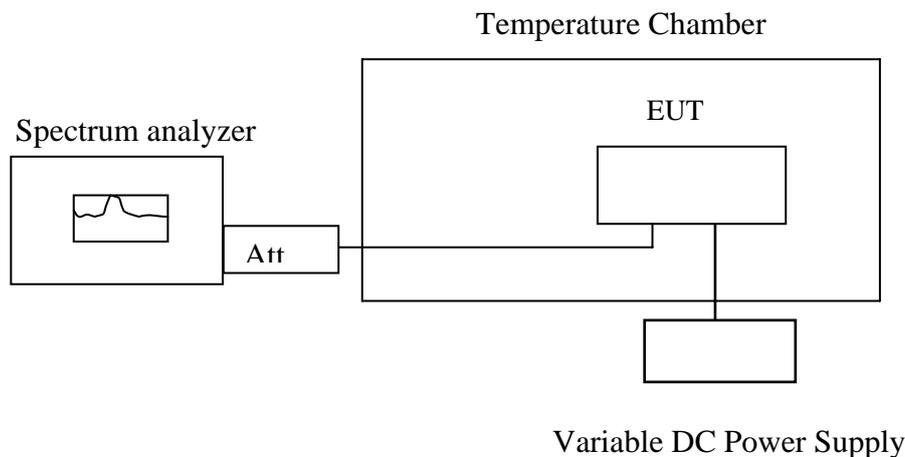
## 11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

### 11.1. Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: 2.5 ppm

### 11.2. Test Set-up:



*Note: Measurement setup for testing on Antenna connector*

### 11.3. Measurement Procedure

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

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

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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	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
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	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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### 11.5. Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5.50	25.00	836.600009	0.00	2091.00
5.00	25.00	836.599998	11.00	2091.00
4.50	25.00	836.599972	37.00	2091.00
2.4 (End Point)	25.00	836.599999	10.00	2091.00

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5.5	25	1880.000012	0.00	4700
5	25	1879.999984	28.00	4700
4.5	25	1879.999976	36.00	4700
2.4 (End Point)	25	1880.000010	3.00	4700

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Reference Frequency: EDGE 850 Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5.50	25.00	836.599984	0.00	2091.00
5.00	25.00	836.599997	-13.00	2091.00
4.50	25.00	836.600012	-28.00	2091.00
3.3 (End Point)	25.00	836.599999	15.00	2091.00

Reference Frequency: EDGE 1900 Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5.5	25	1880.000006	0.00	4700
5	25	1879.999994	12.00	4700
4.5	25	1879.999984	22.00	4700
2.4 (End Point)	25	1880.000000	5.00	4700

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Reference Frequency: HSDPA BAND II Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5.5	25	1880.000012	0.00	4700
5.0	25	1879.999999	13.00	4700
4.5	25	1879.999984	28.00	4700
3.3 (Endpoint)	25	1880.000006	6.00	4700

Reference Frequency: HSDPA BAND V Mid Channel 836.0 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
5.50	25.00	836.599998	0.00	2091.00
5.00	25.00	836.599974	24.00	2091.00
4.50	25.00	836.600007	-9.00	2091.00
3.3 (End Point)	25.00	836.599984	14.00	2091.00

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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	06/10/2009
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	01/10/2008	01/09/2009
Coaxial Cables	N/A	No. 3, 4	N/A	01/11/2008	01/10/2009

#### 12.5. Measurement Result

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

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK	Test Date:	Jun. 14, 2008
Temperature:	26 °C	Humidity:	58 %
		Test By:	Jim

### Conducted Emission Measurement

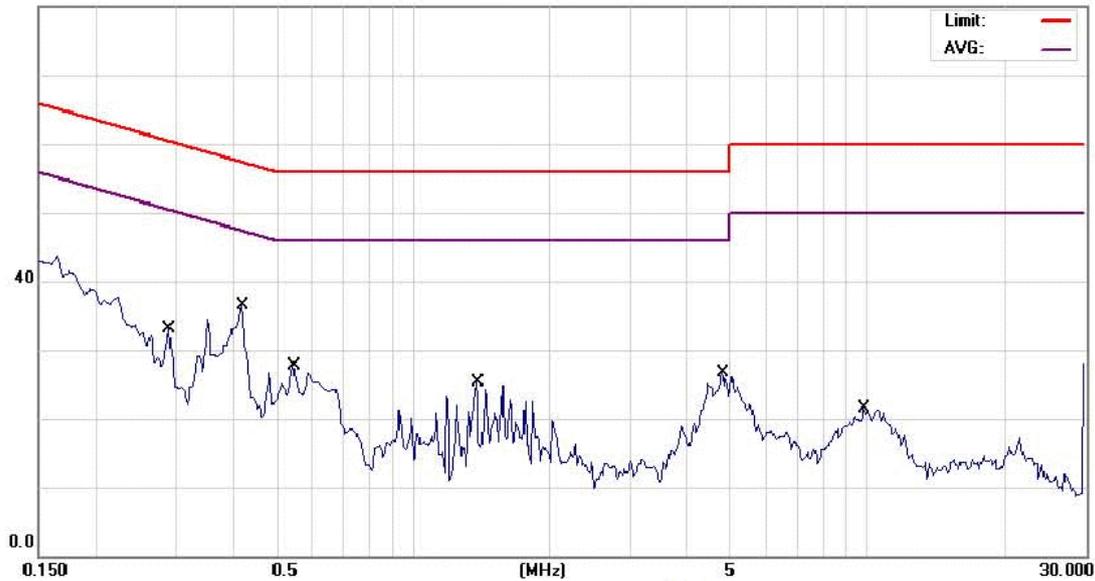
File :EH-2008-60003

Data :#1

Date: 2008/06/14

Time: 下午 03:47:33

80.0 dBuV



Site SGS CONDUCTED #1	Phase: <b>L1</b>	Temperature: 26 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power:	Humidity: 58 %
EUT: MF626	Distance:	Air Pressure: hpa
M/N:		
Note: GSM 850		

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2909	32.21	0.13	32.34	60.50	-28.16	QP	
2	*	0.4200	36.38	0.08	36.46	57.45	-20.99	QP	
3		0.5450	27.68	0.06	27.74	56.00	-28.26	QP	
4		1.3850	25.34	0.04	25.38	56.00	-30.62	QP	
5		4.8050	26.67	0.05	26.72	56.00	-29.28	QP	
6		9.8400	21.42	0.10	21.52	60.00	-38.48	QP	

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**Conducted Emission Measurement**

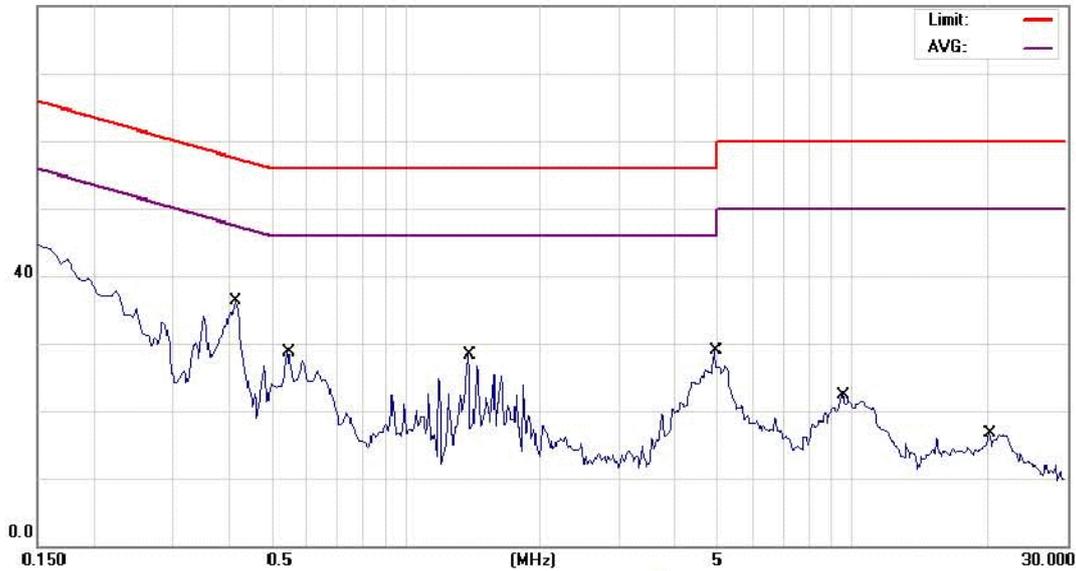
File :EH-2008-60003

Data :#2

Date: 2008/06/14

Time: 下午 03:53:48

80.0 dBuV



Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: MF626

M/N:

Note: GSM 850

Phase: **N**

Power:

Distance:

Temperature: 26 °C

Humidity: 58 %

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.4150	36.15	0.08	36.23	57.55	-21.32	QP	
2		0.5450	28.59	0.05	28.64	56.00	-27.36	QP	
3		1.3850	28.30	0.03	28.33	56.00	-27.67	QP	
4		4.9400	28.79	0.06	28.85	56.00	-27.15	QP	
5		9.5200	22.17	0.19	22.36	60.00	-37.64	QP	
6		20.3400	16.58	0.16	16.74	60.00	-43.26	QP	

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 Link	Test Date:	Jun. 14, 2008
Temperature:	26	Humidity:	58 %
		Test By:	Jim

### Conducted Emission Measurement

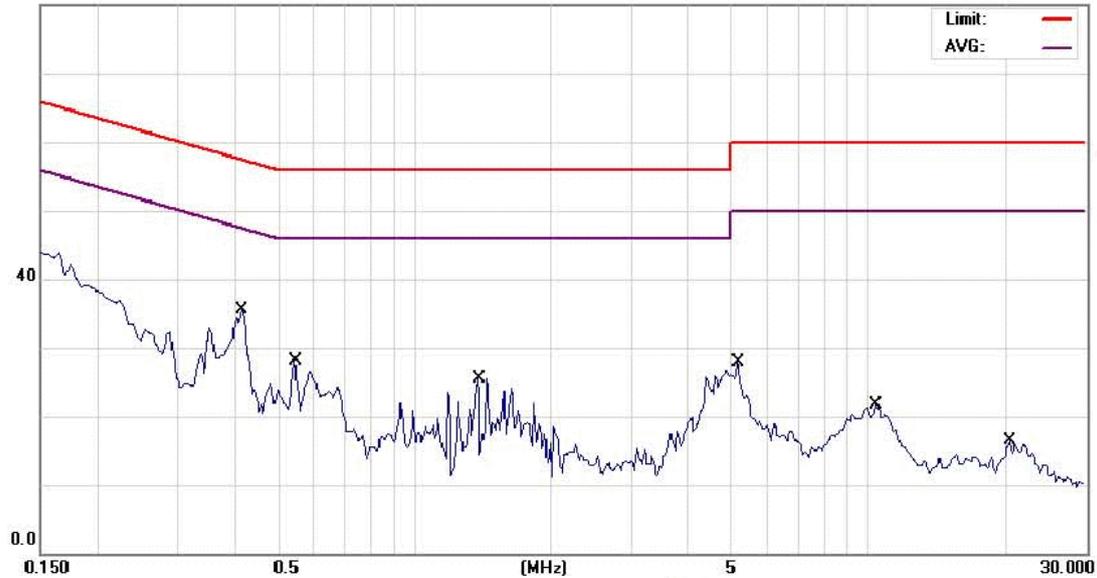
File :EH-2008-60003

Data :#4

Date: 2008/06/14

Time: 下午 03:58:02

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power:

Humidity: 58 %

EUT: MF626

Distance:

Air Pressure: hpa

M/N:

Note: GSM 1900

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.4150	35.50	0.09	35.59	57.55	-21.96	QP	
2		0.5450	28.01	0.06	28.07	56.00	-27.93	QP	
3		1.3850	25.56	0.04	25.60	56.00	-30.40	QP	
4		5.1600	27.77	0.06	27.83	60.00	-32.17	QP	
5		10.4000	21.60	0.10	21.70	60.00	-38.30	QP	
6		20.5000	16.36	0.16	16.52	60.00	-43.48	QP	

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### Conducted Emission Measurement

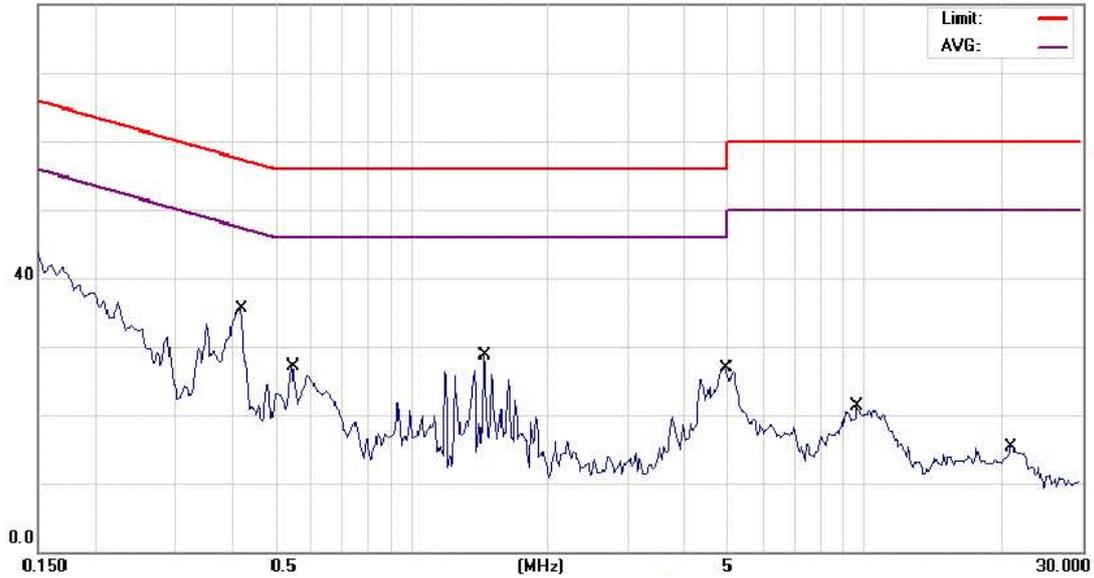
File :EH-2008-60003

Data :#13

Date: 2008/06/14

Time: 下午 04:21:51

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 26 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power:

Humidity: 58 %

EUT: MF626

Distance:

Air Pressure: hpa

M/N:

Note: GSM 1900

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4200	35.44	0.07	35.51	57.45	-21.94	QP	
2		0.5450	27.02	0.05	27.07	56.00	-28.93	QP	
3		1.4450	28.64	0.03	28.67	56.00	-27.33	QP	
4		4.9400	26.90	0.06	26.96	56.00	-29.04	QP	
5		9.6200	21.15	0.19	21.34	60.00	-38.66	QP	
6		21.1472	15.16	0.18	15.34	60.00	-44.66	QP	

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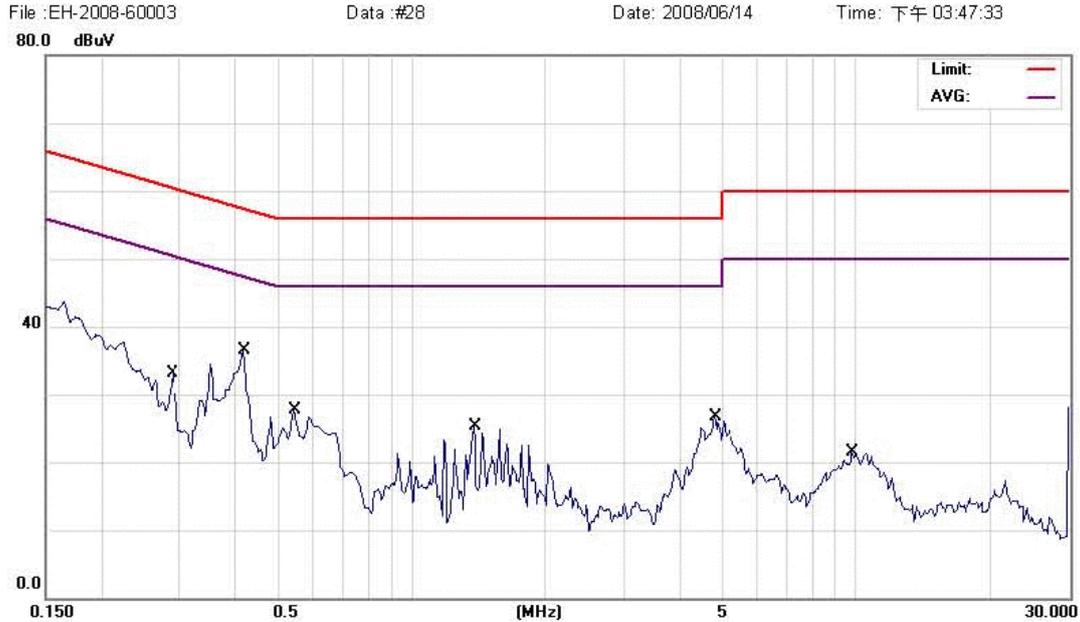
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	EDGE 850 LINK	Test Date:	Jun. 14, 2008
Temperature:	26 °C	Humidity:	58 %
		Test By:	Jim

### Conducted Emission Measurement



Site: SGS CONDUCTED #1	Phase: <b>L1</b>	Temperature: 26 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power:	Humidity: 58 %
EUT: MF626	Distance:	Air Pressure: hpa
MN:		
Note: EDGE 850		

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2909	32.21	0.13	32.34	60.50	-28.16	QP	
2	*	0.4200	36.38	0.08	36.46	57.45	-20.99	QP	
3		0.5450	27.68	0.06	27.74	56.00	-28.26	QP	
4		1.3850	25.34	0.04	25.38	56.00	-30.62	QP	
5		4.8050	26.67	0.05	26.72	56.00	-29.28	QP	
6		9.8400	21.42	0.10	21.52	60.00	-38.48	QP	

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Conducted Emission Measurement

File :EH-2008-60003

Data :#27

Date: 2008/06/14

Time: 下午 03:53:48

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 26 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power:

Humidity: 58 %

EUT: MF626

Distance:

Air Pressure: hpa

M/N:

Note: EDGE 850

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4150	36.15	0.08	36.23	57.55	-21.32	QP	
2		0.5450	28.59	0.05	28.64	56.00	-27.36	QP	
3		1.3850	28.30	0.03	28.33	56.00	-27.67	QP	
4		4.9400	28.79	0.06	28.85	56.00	-27.15	QP	
5		9.5200	22.17	0.19	22.36	60.00	-37.64	QP	
6		20.3400	16.58	0.16	16.74	60.00	-43.26	QP	

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	EDGE 1900 Link	Test Date:	Jun. 14, 2008
Temperature:	26	Humidity:	58 %
		Test By:	Jim

### Conducted Emission Measurement

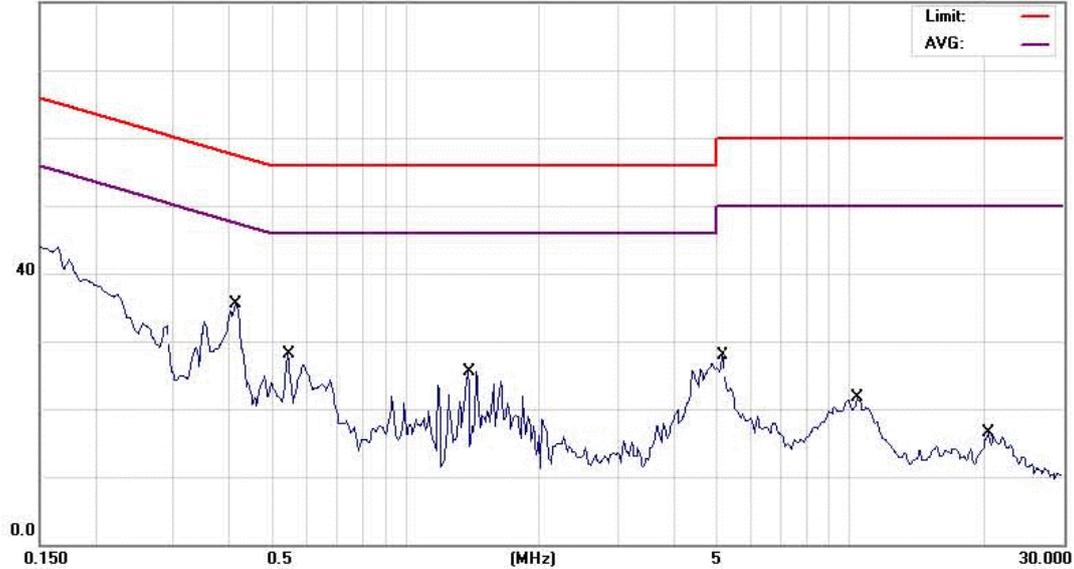
File :EH-2008-60003

Data :#26

Date: 2008/06/14

Time: 下午 03:58:02

80.0 dBuV



Site: SGS CONDUCTED #1	Phase: <b>L1</b>	Temperature: 26 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power:	Humidity: 58 %
EUT: MF626	Distance:	Air Pressure: hpa
MN:		
Note: EDGE 1900		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4150	35.50	0.09	35.59	57.55	-21.96	QP	
2		0.5450	28.01	0.06	28.07	56.00	-27.93	QP	
3		1.3850	25.56	0.04	25.60	56.00	-30.40	QP	
4		5.1600	27.77	0.06	27.83	60.00	-32.17	QP	
5		10.4000	21.60	0.10	21.70	60.00	-38.30	QP	
6		20.5000	16.36	0.16	16.52	60.00	-43.48	QP	

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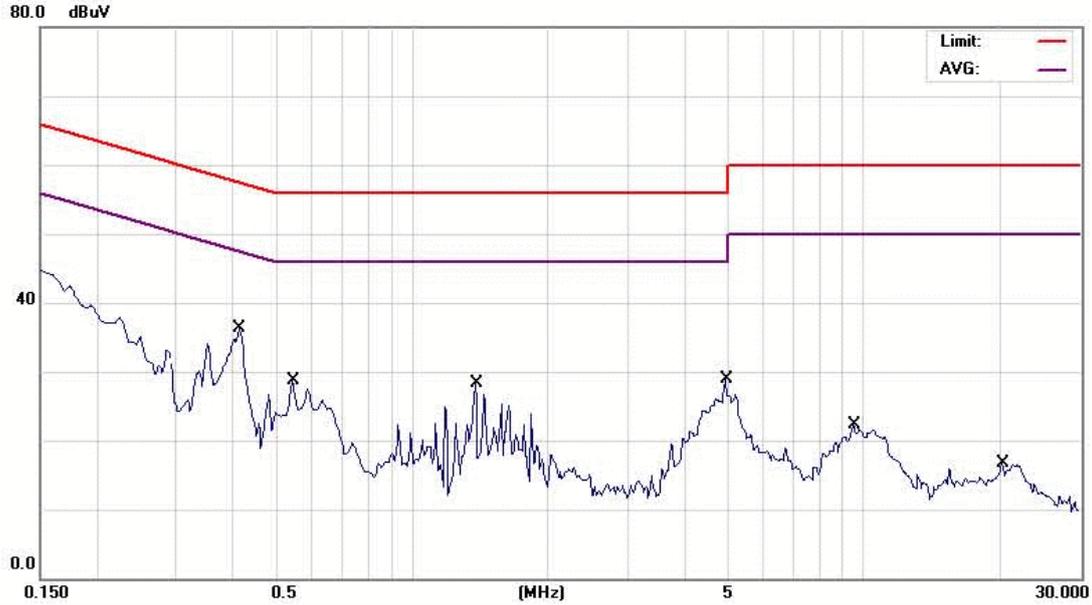
Conducted Emission Measurement

File :EH-2008-60003

Data :#25

Date: 2008/06/14

Time: 下午 03:53:48



Site SGS CONDUCTED #1

Phase: N

Temperature: 26 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power:

Humidity: 58 %

EUT: MF626

Distance:

Air Pressure: hpa

MN:

Note: EDGE 1900

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4150	36.15	0.08	36.23	57.55	-21.32	QP	
2		0.5450	28.59	0.05	28.64	56.00	-27.36	QP	
3		1.3850	28.30	0.03	28.33	56.00	-27.67	QP	
4		4.9400	28.79	0.06	28.85	56.00	-27.15	QP	
5		9.5200	22.17	0.19	22.36	60.00	-37.64	QP	
6		20.3400	16.58	0.16	16.74	60.00	-43.26	QP	

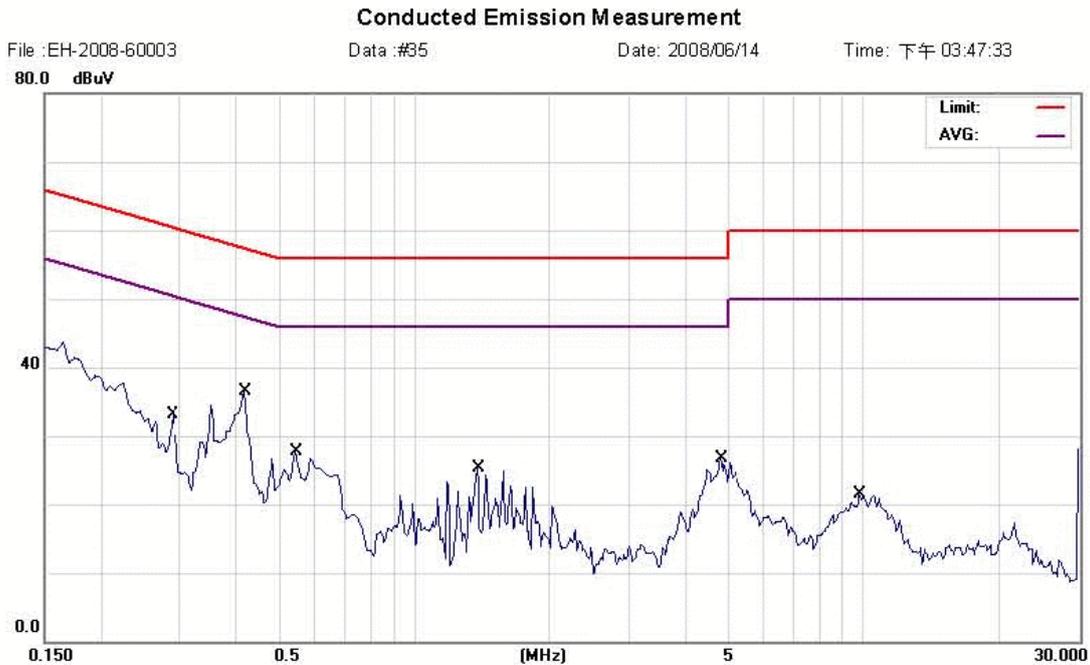
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### AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	HSDPA II Link			Test Date:	Jun. 14, 2008
Temperature:	26	Humidity:	58 %	Test By:	Jim



Site: SGS CONDUCTED #1	Phase: <b>L1</b>	Temperature: 26 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power:	Humidity: 58 %
EUT: MF626	Distance:	Air Pressure: hpa
M/N:		
Note: HSDPA B2		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2909	32.21	0.13	32.34	60.50	-28.16	QP	
2	*	0.4200	36.38	0.08	36.46	57.45	-20.99	QP	
3		0.5450	27.68	0.06	27.74	56.00	-28.26	QP	
4		1.3850	25.34	0.04	25.38	56.00	-30.62	QP	
5		4.8050	26.67	0.05	26.72	56.00	-29.28	QP	
6		9.8400	21.42	0.10	21.52	60.00	-38.48	QP	

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### Conducted Emission Measurement

File :EH-2008-60003

Data :#36

Date: 2008/06/14

Time: 下午 03:53:48

80.0 dBuV



Site: SGS CONDUCTED #1

Phase: **N**

Temperature: 26 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power:

Humidity: 58 %

EUT: MF626

Distance:

Air Pressure: hpa

MN:

Note: HSDPA B2

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4150	36.15	0.08	36.23	57.55	-21.32	QP	
2		0.5450	28.59	0.05	28.64	56.00	-27.36	QP	
3		1.3850	28.30	0.03	28.33	56.00	-27.67	QP	
4		4.9400	28.79	0.06	28.85	56.00	-27.15	QP	
5		9.5200	22.17	0.19	22.36	60.00	-37.64	QP	
6		20.3400	16.58	0.16	16.74	60.00	-43.26	QP	

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	HSDPA V Link	Test Date:	Jun. 14, 2008
Temperature:	26	Humidity:	58 %
		Test By:	Jim

### Conducted Emission Measurement

File :EH-2008-60003

Data :#37

Date: 2008/06/14

Time: 下午 04:19:51

80.0 dBuV



Site: SGS CONDUCTED #1	Phase: <b>L1</b>	Temperature: 26 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power:	Humidity: 58 %
EUT: MF626	Distance:	Air Pressure: hpa
M/N:		
Note: HSDPA B5		

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.4200	35.02	0.08	35.10	57.45	-22.35	QP	
2		0.5450	26.82	0.06	26.88	56.00	-29.12	QP	
3		1.4450	26.63	0.04	26.67	56.00	-29.33	QP	
4		5.0000	27.07	0.05	27.12	56.00	-28.88	QP	
5		9.7800	22.12	0.10	22.22	60.00	-37.78	QP	
6		21.9200	15.45	0.19	15.64	60.00	-44.36	QP	

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Conducted Emission Measurement

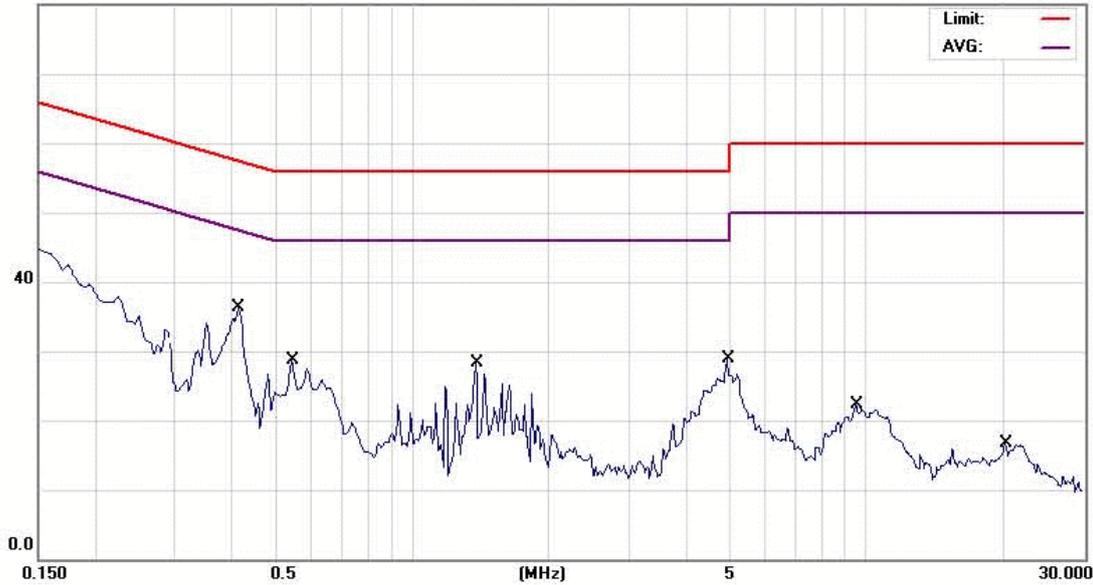
File :EH-2008-60003

Data :#38

Date: 2008/06/14

Time: 下午 03:53:48

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 26 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power:

Humidity: 58 %

EUT: MF626

Distance:

Air Pressure: hpa

MN:

Note: HSDPA B5

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4150	36.15	0.08	36.23	57.55	-21.32	QP	
2		0.5450	28.59	0.05	28.64	56.00	-27.36	QP	
3		1.3850	28.30	0.03	28.33	56.00	-27.67	QP	
4		4.9400	28.79	0.06	28.85	56.00	-27.15	QP	
5		9.5200	22.17	0.19	22.36	60.00	-37.64	QP	
6		20.3400	16.58	0.16	16.74	60.00	-43.26	QP	

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