

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT****INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 22 SUBPART H, PART 24 SUBPART E, PART 27  
AND INDUSTRY CANADA RSS-132, RSS-133 and RSS-139 REQUIREMENT**

OF

**Product Name:** Tablet (Pad) Computer

**Brand Name:** Lenovo

**Model:** ThinkPad Tablet

**Canadian Model Number:** TP00028AS

**Model Different:** N/A

**FCC ID:** GKR-TP00028AS

**IC:** 2533B-TP00028AS

**Report No.:** EH/2011/80034

**Issue Date:** Aug. 22, 2011

**FCC Rule Part:** 2, 22H & 24E & 27

**IC Rule Part:** RSS 132, Issue 2 & RSS 133, Issue 5 &  
RSS 139, Issue 2  
Compal Electronics, Inc.

**Prepared for:** No. 581, Ruiguang, Neihu District,  
Taipei City 11492, Taiwan (R. O. C)  
SGS Taiwan Ltd.

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

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## VERIFICATION OF COMPLIANCE

**Applicant:** Compal Electronics, Inc.  
No. 581, Ruiguang, Neihu District,  
Taipei City 11492, Taiwan (R. O. C)

**Product Name:** Tablet (Pad) Computer

**Brand Name:** Lenovo

**FCC ID:** GKR-TP00028AS

**IC:** 2533B-TP00028AS

**Model:** ThinkPad Tablet

**Canadian Model Number:** TP00028AS

**Model Difference:** N/A

**File Number:** EH/2011/80034

**Date of test:** Aug. 10, 2011 ~ Aug. 19, 2011

**Date of EUT Received:** Aug. 10, 2011

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004, Issue 3 of RSS-Gen and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule PART 22 subpart H, PART 24 subpart E, PART 27 and IC standards Issue 2 of RSS-132, Issue 5 of RSS-133, Issue 2 of RSS-139.

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

**Test By:**

Nick Lin

**Date:**

Aug. 22, 2011

---

*Nick Lin / Engineer***Prepared By:**

Celine Chou

**Date:**

Aug. 22, 2011

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*Celine Chou / Clerk***Approved By**

Jim Chang

**Date:**

Aug. 22, 2011

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*Jim Chang / Supervisor*

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## Version

Version No.	Date	Description
00	Aug. 22, 2011	Initial creation of document

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## 1. GENERAL PRODUCT INFORMATION

### General:

Product name:	Tablet (Pad) Computer	
Brand Name:	Lenovo	
Model :	ThinkPad Tablet	
Canadian Model Number:	TP00028AS	
Model Difference:	N/A	
USB Cable:	Model No.: N/A, Supplier: N/A	
Power Supply:	7.4Vdc Li-ion battery or 5.35Vdc from AC/DC adapter	
	Battery:	Model No.: 42T4965 (FRU), 42T4966 (ASM), Supplier: LGC Model No.: 42T4963 (FRU), 42T4964 (ASM), Supplier: Sanyo
	Adapter:	Model No.: PSA/10R-050Q, Supplier: PHIHONG
Integrated WWAN Module:	Model No.: MC8355 Band Name: Sierra Wireless	
Antenna Type:	Fixed Integrated antenna PIFA type (Main) → ACON P/M: DC33000W300 (Aux) → ACON P/M: DC33000W310 (Main) → WahYu P/N: DC33000XZ00 (Aux) → WahYu P/N: DC33000XZ10	

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# GSM / WCDMA

Cellular Phone Standards Frequency Range	Operating Frequency	
	GSM/GPRS/EDGE 850, Class 10	824.2 MHz – 848.8 MHz
	GSM/GPRS/EDGE 1900, Class 10	1850.2 MHz – 1909.8 MHz
	WCDMA/HSUPA/HSDPA Band II	1852.4 MHz – 1907.6 MHz
	WCDMA/HSUPA/HSDPA Band IV	1712.4 MHz – 1752.6 MHz
	WCDMA/HSUPA/HSDPA Band V	826.4 MHz – 846.6 MHz
Type of Emission:	GPRS 850: 247KGXW, GPRS 1900: 245KGXW, EDGE 850: 248KG7W, EDGE 1900: 247KG7W, WCDMA Band II: 4M15F9W, WCDMA Band IV: 4M14F9W, WCDMA Band V: 4M14F9W, HSUPA Band II: 4M15F9W, HSUPA Band IV: 4M15F9W, HSUPA Band V: 4M15F9W, HSDPA Band II: 4M15F9W, HSDPA Band IV: 4M18F9W, HSDPA Band V: 4M14F9W, CDMA 2000 Cellular: 1M27F9W, CDMA 2000 PCS: 1M27F9W, CDMA 2000 EVDO Cellular: 1M27F9W, CDMA 2000 EVDO PCS: 1M27F9W	
Hardware Version:	03	
Software Version:	LENOVO_INDIGO_0.3.23.1.F (eng)	
IMEI:	86754800001011600	

# CDMA 2000:

Cellular Phone Standards Frequency Range and Power	Operating Frequency	
	CDMA 2000 Cellular	824.7 MHz – 848.31 MHz
	CDMA 2000 PCS	1851.25 MHz– 1908.75 MHz
	CDMA 2000 Cellular / EVDO Cellular	824.7 MHz – 848.31 MHz
	CDMA 2000 PCS / EVDO PCS	1851.25 MHz– 1908.75 MHz
IMEI:	86754800001011600	

This test report applies for GPRS/EDGE 850/1900, CDMA 2000, EVDO and WCDMA/HSUPA/HSDPA Bands II, Band IV, Band V.

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

This submittal(s) (test report) is intended for **FCC ID: GKR-TP00028AS** filing to comply with Section Part 22 subpart H, Part 24 subpart E, Part 27 of the FCC CFR 47 Rules. And **IC: 2533B-TP00028AS** filing to comply with Industry Canada Issue 2 of RSS-132, Issue 5 of RSS-133, Issue 2 of RSS-139.

### 1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of TIA/EIA 603C and FCC 47 CFR 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, issue 2 of RSS-132, issue 5 of RSS-133 and issue 2 of RSS-139.

### 1.3. Test Facility

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

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

All equipment is calibrated externally and traceable to SI (International System of Unit).

### 1.4. Special Accessories

Not available for this EUT intended for grant.

### 1.5. Equipment Modifications

Not available for this EUT intended for grant.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

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

格式化: 項目符號及編號

### 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.

格式化: 項目符號及編號

### 2.3. Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C and RSS-Gen Issue 3, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

格式化: 項目符號及編號

#### 2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C and RSS-Gen Issue 3, 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 of ANSI C63.4:2003.

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## 2.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2010	01/22/2012
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/12/2012
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2011	01/04/2012
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2011	01/04/2012
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2010	04/13/2012
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2010	02/04/2012
DC Block	Agilent	BLK-18	155452	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2011	07/04/2012
Splitter	Agilent	11636B	N/A	07/05/2011	07/04/2012
DC Power Supply	Chroma	41901	777188	04/17/2010	04/16/2012
Power Meter	Anritsu	ML2495A	1005007	02/17/2010	02/16/2012

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2012
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2010	11/18/2011
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2010	07/09/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2010	07/09/2012
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2010	01/21/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2010	05/08/2012
Signal Generator	R&S	SMR40	100210	01/22/2010	01/21/2012
Signal Generator	Agilent	E4438C	MY45093613	06/11/2011	06/10/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2012
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2011	07/04/2012
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/12/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2012
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2010	01/04/2012
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2010	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011

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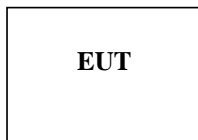
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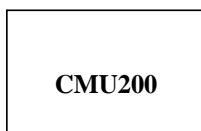
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## 2.5. Configuration of Tested System

**Fig. 2-1 Configuration for Radiated Emission**



**Fig. 2-2 Configuration (Remote Side, on the corner)**



**Table 2-1 Equipment Used in Tested System**

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

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	N/A	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(d)(2)	§4.8 (RSS-Gen Issue 3) §4.4 (RSS-132) §6.4 (RSS-133) §6.4 (RSS-139)	ERP/ EIRP measurement	Compliant
§2.1049(h)	§4.6.1 (RSS-Gen Issue 3) §2.3 (RSS-133) §2.3 (RSS-139)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g)	§4.9 (RSS-Gen Issue 3) §4.5 (RSS-132) §6.5 (RSS-133) §6.5 (RSS-139)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(g)	§4.9 (RSS-Gen Issue 3) §4.5 (RSS-132) §6.5 (RSS-133) §6.5 (RSS-139)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	§4.7 (RSS-Gen Issue 3) §4.3 (RSS-132) §6.3 (RSS-133) §6.3 (RSS-139)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355 §24.235 §27.54	§4.7 (RSS-Gen Issue 3) §4.3 (RSS-132) §6.3 (RSS-133) §6.3 (RSS-139)	Frequency Stability vs. Voltage	Compliant
N/A	§4.10 (RSS-Gen Issue 3) §4.6 (RSS-132) §6.6 (RSS-133) §6.6 (RSS-139)	Receiver Spurious Emissions	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	31.35	ERP	1.365
GPRS 1900 Band	25.28	EIRP	0.337
EDGE 850 Band	28.38	ERP	0.689
EDGE 1900 Band	25.01	EIRP	0.317
WCDMA Band II	22.75	EIRP	0.188
WCDMA Band IV	20.75	EIRP	0.119
WCDMA Band V	22.95	ERP	0.197
HSUPA Band II	23.07	EIRP	0.203
HSUPA Band IV	22.13	EIRP	0.163
HSUPA Band V	23.17	ERP	0.207
HSDPA Band II	26.06	EIRP	0.404
HSDPA Band IV	19.75	EIRP	0.094
HSDPA Band V	23.61	ERP	0.230
CDMA 2000 Cellular	25.65	ERP	0.367
CDMA 2000 PCS	25.16	EIRP	0.328
CDMA 2000 EVDO Cellular	24.30	ERP	0.269
CDMA 2000 EVDO PCS	25.08	EIRP	0.322

#### 4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE, CDMA2000, CDMA2000 EVDO and WCDMA/HSDPA/HSUPA Band II, IV, V with power adaptor. The worst-case of E2 position for GPRS 850 band, E1 position for GPRS 1900, E2 position for HSDPA Band II and HSUPA Band IV, E1 position for HSDPA Band V, E2 position for CDMA 2000 Cellular band and CDMA 2000 PCS band were reported.

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## 5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

Measurement uncertainty (Polarization : <b>Vertical</b> )	30MHz - 180MHz: 3.37dB
	180MHz -417MHz: 3.19dB
	0.417GHz-1GHz: 3.19dB
	1GHz - 18GHz: 4.04dB
	18GHz - 40GHz: 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	30MHz - 167MHz: 4.22dB
	167MHz -500MHz: 3.44dB
	0.5GHz-1GHz: 3.39dB
	1GHz - 18GHz: 4.08dB
	18GHz - 40GHz: 4.08dB

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## 6. RF POWER OUTPUT MEASUREMENT

### 6.1. Standard Applicable:

According to FCC §2.1046.

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

FCC 24.232(C) Peak Power Measurement to 2W.

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

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

Maximum Output Powers for HSUPA

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

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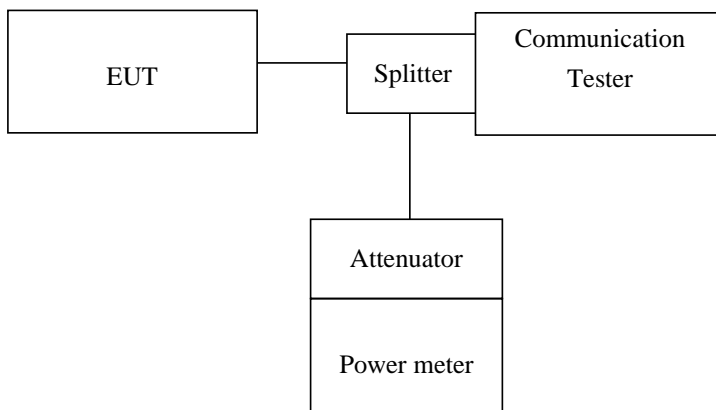
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## 6.2. Test Set-up:



*Note: Measurement setup for testing on Antenna connector*

## 6.3. Measurement Procedure:

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

## 6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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## 6.5. Measurement Result:

### 6.5.1. RF Conducted Output Power

#### 6.5.1.1.: GPRS, EDGE mode

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
GPRS 850 (Class 10)	824.2	128	32.60	32.40	29.70	29.50
	836.6	190	32.60	32.40	29.70	29.50
	848.8	251	32.50	32.30	29.80	29.60

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
GPRS 1900 (Class 10)	1850.2	512	29.80	29.70	27.60	27.40
	1880.0	661	29.70	29.50	28.00	27.80
	1909.8	810	29.40	29.20	28.00	27.90

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
EDGE 850 (Class 10)	824.2	128	29.80	26.70	29.90	26.70
	836.6	190	29.88	26.78	29.98	26.78
	848.8	251	29.92	26.82	29.92	26.82

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
EDGE 1900 (Class 10)	1850.2	512	28.91	25.81	29.01	25.81
	1880.0	661	28.98	25.88	28.98	25.88
	1909.8	810	28.82	25.62	28.72	25.62

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**6.5.1.2.: WCDMA mode**

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

**Results:**

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band II	1852.4	9262	26.27	23.02
	1880.0	9400	26.31	23.04
	1907.6	9538	26.39	23.17

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band IV	1712.4	1312	27.10	23.92
	1732.6	1413	26.97	23.90
	1752.6	1513	27.12	23.76

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	26.24	22.86
	836.6	4183	26.32	22.94
	846.6	4233	26.00	22.62

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

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### 6.5.1.3.: CDMA 2000 mode

#### Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 Cellular	824.70	1013	22.78	22.12
	836.52	384	22.54	22.04
	848.31	777	22.53	22.27

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 PCS	1851.25	25	24.41	23.86
	1880	600	24.51	23.94
	1908.75	1175	23.81	23.12

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 EVDO Cellular	824.70	1013	22.86	22.15
	836.52	384	22.69	22.01
	848.31	777	22.43	22.13

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 EVDO PCS	1851.25	25	24.44	23.91
	1880	600	24.41	23.98
	1908.75	1175	23.74	23.17

offset: 0.5dB(for 800MHz)

offset: 0.5dB(for 1900MHz)

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**6.5.1.4.:HSDPA Release 6 mode**

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

**HSDPA SUB-TEST Setting**Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

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

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

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**Results:**

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
<b>HSDPA (B2)</b>	<b>1</b>	23.19	22.93	23.03	20.3dBm – 25.7dBm	<b>Pass</b>
	<b>2</b>	22.90	22.90	23.02	20.3dBm – 25.7dBm	<b>Pass</b>
	<b>3</b>	22.71	22.48	22.50	19.8dBm – 25.7dBm	<b>Pass</b>
	<b>4</b>	22.78	22.49	22.62	19.8dBm – 25.7dBm	<b>Pass</b>

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
<b>HSDPA (B4)</b>	<b>1</b>	23.63	24.00	23.60	20.3dBm – 25.7dBm	<b>Pass</b>
	<b>2</b>	23.80	23.76	23.61	20.3dBm – 25.7dBm	<b>Pass</b>
	<b>3</b>	23.15	23.55	23.07	19.8dBm – 25.7dBm	<b>Pass</b>
	<b>4</b>	23.22	23.56	23.19	19.8dBm – 25.7dBm	<b>Pass</b>

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
<b>HSDPA (B5)</b>	<b>1</b>	22.65	22.80	22.74	20.3dBm – 25.7dBm	<b>Pass</b>
	<b>2</b>	22.79	22.83	22.49	20.3dBm – 25.7dBm	<b>Pass</b>
	<b>3</b>	22.19	22.32	22.25	19.8dBm – 25.7dBm	<b>Pass</b>
	<b>4</b>	22.24	22.36	22.31	19.8dBm – 25.7dBm	<b>Pass</b>

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#### 6.5.1.5.: HSPA (HSDPA & HSUPA) Release 6 mode

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

#### HSPA SUB-TEST Setting

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

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

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

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**Results:**

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSUPA (B2)	1	22.94	23.02	23.11	17.3dBm – 25.7dBm	Pass
	2	20.99	21.09	21.15	16.8dBm – 25.7dBm	Pass
	3	22.00	22.04	22.19	17.8dBm – 25.7dBm	Pass
	4	21.12	21.14	21.19	16.8dBm – 25.7dBm	Pass
	5	22.83	22.88	23.02	17.3dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSUPA (B4)	1	23.84	23.88	23.70	18.8dBm – 25.7dBm	Pass
	2	21.89	21.95	21.74	16.8dBm – 25.7dBm	Pass
	3	22.90	22.90	22.78	17.8dBm – 25.7dBm	Pass
	4	22.02	22.00	21.78	16.8dBm – 25.7dBm	Pass
	5	23.73	23.74	23.61	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4172	4233		
HSUPA (B5)	1	22.82	22.87	22.54	17.3dBm – 25.7dBm	Pass
	2	20.88	20.95	20.58	16.8dBm – 25.7dBm	Pass
	3	21.86	21.93	21.62	17.8dBm – 25.7dBm	Pass
	4	20.93	21.01	20.66	16.8dBm – 25.7dBm	Pass
	5	22.68	22.70	22.43	17.3dBm – 25.7dBm	Pass

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## 6.5.2. Minimum Communications Power Measurement

### PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8	
Output power (dBm)	29.7	29.8	29.7	29.7	27.4	25.6	23.5	21.6	19.7	
PCL	9	10	11	12	13	14	15	16	17	18
Output power (dBm)	17.9	15.7	13.4	11.7	9.7	7.7	6	3.9	1.9	0.6

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

### WCDMA/HSDPA/HSUPA band II

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 15 for measurement data) . The min. power was measures by a function key “mini-mum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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## 7. ERP, EIRP MEASUREMENT

### 7.1. Standard Applicable:

According to FCC §2.1046

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

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

FCC 27.50(d)(2) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

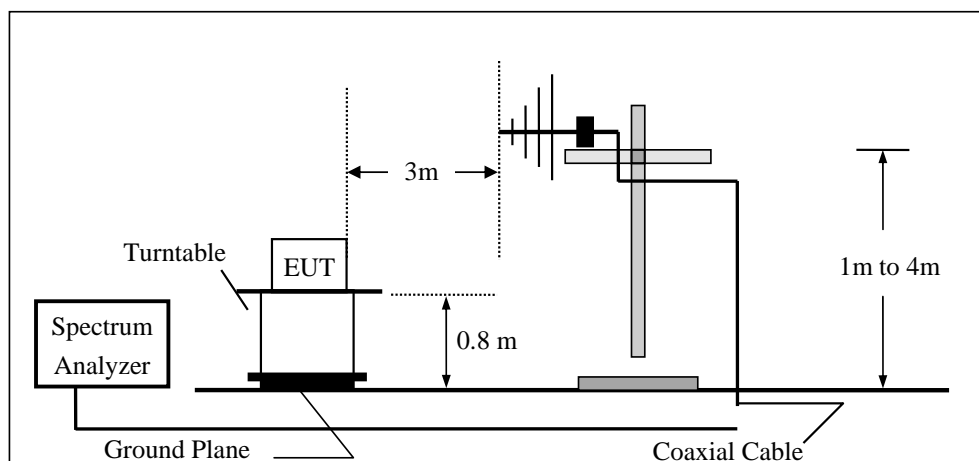
According to issue 2 of RSS 132, section 4.4. The transmitter output power shall not exceed the limits given in SRSP-503.

According to IC RSS-133 §6.4. The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W which given in SRSP-510.

According to IC RSS-139 §6.4. The peak e.i.r.p. for transmitters operating in the band 1710-1755 MHz shall not exceed the limits 1W.

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

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



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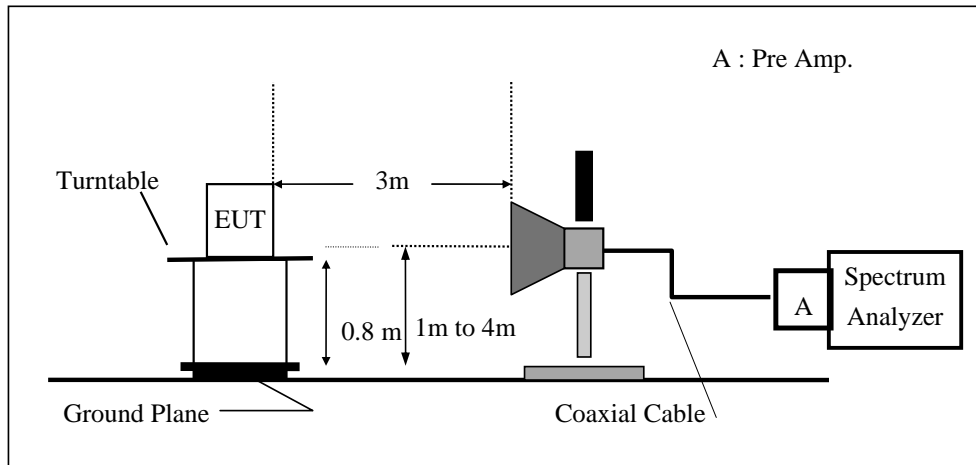
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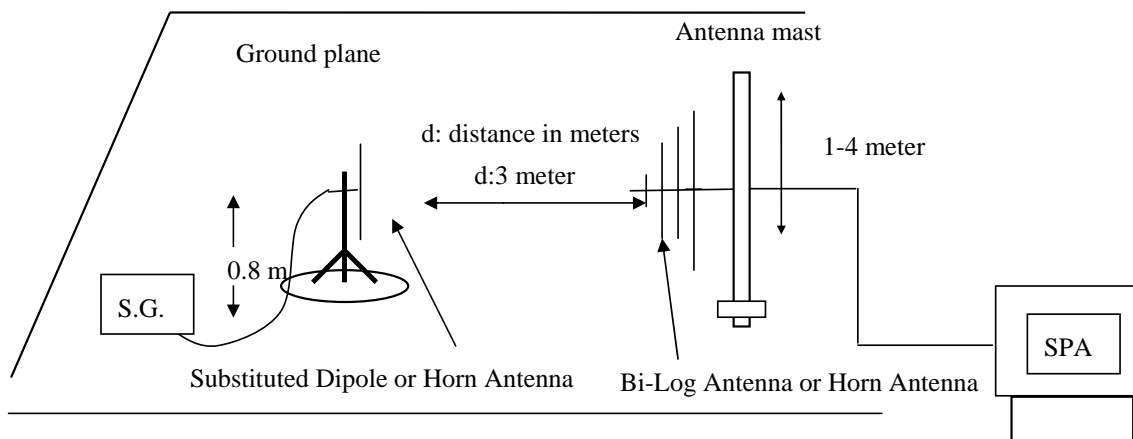
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



← --- 格式化: 項目符號及編號

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### 7.3. Measurement Procedure:

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

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

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

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

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

### 7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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## 7.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GPRS 850	824.20	128	H	V	126.09	39.70	-7.87	3.62	28.20	38.45
				H	120.17	33.90	-7.87	3.62	22.40	38.45
			E1	V	123.70	37.31	-7.87	3.62	25.81	38.45
				H	121.63	35.36	-7.87	3.62	23.86	38.45
			E2	V	117.81	31.42	-7.87	3.62	19.92	38.45
				H	125.80	39.53	-7.87	3.62	28.03	38.45
	836.60	190	H	V	126.95	40.70	-7.88	3.65	29.17	38.45
				H	120.10	33.87	-7.88	3.65	22.34	38.45
			E1	V	124.11	37.86	-7.88	3.65	26.33	38.45
				H	121.80	35.57	-7.88	3.65	24.04	38.45
			E2	V	118.07	31.82	-7.88	3.65	20.29	38.45
				H	127.85	41.62	-7.88	3.65	30.09	38.45
	848.80	251	H	V	126.99	40.87	-7.88	3.68	29.31	38.45
				H	118.88	32.69	-7.88	3.68	21.13	38.45
			E1	V	124.40	38.28	-7.88	3.68	26.72	38.45
				H	122.17	35.98	-7.88	3.68	24.42	38.45
			E2	V	118.97	32.85	-7.88	3.68	21.29	38.45
				H	129.10	42.91	-7.88	3.68	<b>31.35</b>	38.45

### Remark :

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

RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
GPRS 1900	1850.20	512	H	V	121.48	17.09	9.90	5.56	21.43	33.00
				H	123.60	19.42	9.90	5.56	23.76	33.00
			E1	V	120.54	16.15	9.90	5.56	20.49	33.00
				H	124.52	20.34	9.90	5.56	24.68	33.00
			E2	V	114.53	10.14	9.90	5.56	14.48	33.00
				H	125.14	20.96	9.90	5.84	25.02	33.00
	1880.00	661	H	V	121.32	16.96	9.99	5.61	21.34	33.00
				H	123.48	19.34	9.99	5.61	23.71	33.00
			E1	V	120.93	16.57	9.99	5.61	20.95	33.00
				H	124.74	20.60	9.99	5.61	24.97	33.00
			E2	V	114.66	10.30	9.99	5.61	14.68	33.00
				H	125.05	20.91	9.99	5.61	<b>25.28</b>	33.00
	1909.80	810	H	V	121.87	17.54	10.08	5.66	21.96	33.00
				H	123.06	18.95	10.08	5.66	23.37	33.00
			E1	V	121.87	17.54	10.08	5.66	21.96	33.00
				H	124.34	20.23	10.08	5.66	24.65	33.00
			E2	V	114.76	10.43	10.08	5.66	14.85	33.00
				H	124.57	20.46	10.08	5.66	24.88	33.00

**Remark :**

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

RBW=300K, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	123.41	37.02	-7.87	3.62	25.52	38.45
				H	119.18	32.91	-7.87	3.62	21.41	38.45
			E1	V	122.98	36.59	-7.87	3.62	25.09	38.45
				H	124.81	38.54	-7.87	3.62	27.04	38.45
			E2	V	114.50	28.11	-7.87	3.62	16.61	38.45
				H	124.03	37.76	-7.87	3.62	26.26	38.45
	836.60	190	H	V	123.39	37.14	-7.88	3.65	25.61	38.45
				H	116.97	30.74	-7.88	3.65	19.21	38.45
			E1	V	123.75	37.50	-7.88	3.65	25.97	38.45
				H	124.55	38.32	-7.88	3.65	26.79	38.45
			E2	V	115.00	28.75	-7.88	3.65	17.22	38.45
				H	125.33	39.10	-7.88	3.65	27.57	38.45
	848.80	251	H	V	123.77	37.65	-7.88	3.68	26.09	38.45
				H	116.79	30.60	-7.88	3.68	19.04	38.45
			E1	V	124.72	38.60	-7.88	3.68	27.04	38.45
				H	121.64	35.45	-7.88	3.68	23.89	38.45
			E2	V	114.12	28.00	-7.88	3.68	16.44	38.45
				H	126.13	39.94	-7.88	3.68	<b>28.38</b>	38.45

**Remark :**

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

RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	H	V	121.53	17.14	9.90	5.56	21.48	33.00
				H	122.06	17.88	9.90	5.56	22.22	33.00
			E1	V	119.94	15.55	9.90	5.56	19.89	33.00
				H	123.22	19.04	9.90	5.56	23.38	33.00
			E2	V	116.54	12.15	9.90	5.56	16.49	33.00
				H	124.43	20.25	9.90	5.84	24.31	33.00
	1880.00	661	H	V	120.23	15.87	9.99	5.61	20.25	33.00
				H	121.26	17.12	9.99	5.61	21.49	33.00
			E1	V	119.84	15.48	9.99	5.61	19.86	33.00
				H	122.65	18.51	9.99	5.61	22.88	33.00
			E2	V	115.77	11.41	9.99	5.61	15.79	33.00
				H	124.11	19.97	9.99	5.61	24.34	33.00
	1909.80	810	H	V	120.80	16.47	10.08	5.66	20.89	33.00
				H	121.11	17.00	10.08	5.66	21.42	33.00
			E1	V	120.47	16.14	10.08	5.66	20.56	33.00
				H	122.81	18.70	10.08	5.66	23.12	33.00
			E2	V	115.47	11.14	10.08	5.66	15.56	33.00
				H	124.70	20.59	10.08	5.66	<b>25.01</b>	33.00

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA Band II	1852.40	9262	H	V	118.79	14.41	9.90	5.56	18.74	33.00
				H	119.76	15.58	9.90	5.56	19.92	33.00
			E1	V	118.82	14.44	9.90	5.56	18.77	33.00
				H	120.87	16.69	9.90	5.56	21.03	33.00
			E2	V	115.01	10.63	9.90	5.56	14.96	33.00
				H	122.71	18.53	9.90	5.84	22.59	33.00
	1880.00	9400	H	V	118.02	13.66	9.99	5.61	18.04	33.00
				H	118.55	14.41	9.99	5.61	18.78	33.00
			E1	V	118.46	14.07	9.90	5.56	18.41	33.00
				H	120.51	16.37	9.99	5.61	20.74	33.00
			E2	V	113.99	9.63	9.99	5.61	14.01	33.00
				H	122.52	18.38	9.99	5.61	<b>22.75</b>	33.00
	1907.60	9538	H	V	117.68	13.35	10.07	5.66	17.76	33.00
				H	117.82	13.71	10.07	5.66	18.12	33.00
			E1	V	118.08	13.75	10.07	5.66	18.16	33.00
				H	119.80	15.69	10.07	5.66	20.10	33.00
			E2	V	113.12	8.79	10.07	5.66	13.20	33.00
				H	122.02	17.91	10.07	5.66	22.32	33.00

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA Band IV	1712.40	1312	H	V	118.31	11.29	9.48	5.17	15.61	33.00
				H	117.52	10.55	9.48	5.17	14.86	33.00
			E1	V	116.41	9.39	9.48	5.17	13.71	33.00
				H	120.62	13.65	9.48	5.17	17.96	33.00
			E2	V	110.48	3.46	9.48	5.17	7.78	33.00
				H	123.66	16.69	9.90	5.84	<b>20.75</b>	33.00
	1732.60	1413	H	V	118.25	11.24	9.54	5.20	15.58	33.00
				H	117.28	10.32	9.54	5.20	14.66	33.00
			E1	V	115.64	8.63	9.54	5.20	12.97	33.00
				H	120.40	13.44	9.54	5.20	17.78	33.00
			E2	V	110.49	3.48	9.54	5.20	7.82	33.00
				H	123.19	16.23	9.54	5.20	20.57	33.00
	1752.60	1513	H	V	118.30	11.30	9.60	5.24	15.67	33.00
				H	117.10	10.15	9.60	5.24	14.52	33.00
			E1	V	115.85	8.85	9.60	5.24	13.22	33.00
				H	120.30	13.35	9.60	5.24	17.72	33.00
			E2	V	110.27	3.27	9.60	5.24	7.64	33.00
				H	122.65	15.70	9.60	5.24	20.07	33.00

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
WCDMA Band V	826.40	4132	H	V	118.93	32.57	-10.02	3.63	18.92	38.45
				H	112.77	26.51	-10.02	3.63	12.87	38.45
			E1	V	121.82	35.46	-10.02	3.63	21.81	38.45
				H	120.96	34.70	-10.02	3.63	21.06	38.45
			E2	V	110.65	24.29	-10.02	3.63	10.64	38.45
				H	119.56	33.30	-10.02	3.63	19.66	38.45
	836.60	4183	H	V	119.09	32.83	-10.02	3.65	19.16	38.45
				H	113.14	26.91	-10.02	3.65	13.24	38.45
			E1	V	122.65	36.39	-10.02	3.65	22.72	38.45
				H	122.08	35.85	-10.02	3.65	22.18	38.45
			E2	V	111.44	25.18	-10.02	3.65	11.51	38.45
				H	120.55	34.32	-10.02	3.65	20.65	38.45
	846.60	4233	H	V	118.92	32.77	-10.02	3.67	19.08	38.45
				H	114.35	28.15	-10.02	3.67	14.46	38.45
			E1	V	122.80	36.64	-10.02	3.67	<b>22.95</b>	38.45
				H	122.33	36.13	-10.02	3.67	22.44	38.45
			E2	V	112.21	26.06	-10.02	3.67	12.37	38.45
				H	121.09	34.89	-10.02	3.67	21.20	38.45

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HSUPA Band II	1852.40	9262	H	V	119.04	14.66	9.90	5.56	18.99	33.00
				H	119.68	15.50	9.90	5.56	19.84	33.00
			E1	V	119.18	14.80	9.90	5.56	19.13	33.00
				H	122.73	18.55	9.90	5.56	22.89	33.00
			E2	V	113.60	9.22	9.90	5.56	13.55	33.00
				H	123.10	18.92	9.90	5.84	22.98	33.00
	1880.00	9400	H	V	118.48	14.12	9.99	5.61	18.50	33.00
				H	118.85	14.71	9.99	5.61	19.08	33.00
			E1	V	118.89	14.50	9.90	5.56	18.84	33.00
				H	122.47	18.33	9.99	5.61	22.70	33.00
			E2	V	112.38	8.02	9.99	5.61	12.40	33.00
				H	122.84	18.70	9.99	5.61	<b>23.07</b>	33.00
	1907.60	9538	H	V	118.11	13.78	10.07	5.66	18.19	33.00
				H	118.17	14.06	10.07	5.66	18.47	33.00
			E1	V	119.26	14.93	10.07	5.66	19.34	33.00
				H	121.54	17.43	10.07	5.66	21.84	33.00
			E2	V	111.56	7.23	10.07	5.66	11.64	33.00
				H	122.22	18.11	10.07	5.66	22.52	33.00

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSUPA Band IV	1712.40	1312	H	V	123.13	16.11	9.48	5.17	20.43	33.00
				H	120.88	13.91	9.48	5.17	18.22	33.00
			E1	V	119.11	12.09	9.48	5.17	16.41	33.00
				H	122.78	15.81	9.48	5.17	20.12	33.00
			E2	V	112.25	5.23	9.48	5.17	9.55	33.00
				H	125.04	18.07	9.90	5.84	<b>22.13</b>	33.00
	1732.60	1413	H	V	122.16	15.15	9.54	5.20	19.49	33.00
				H	120.16	13.20	9.54	5.20	17.54	33.00
			E1	V	117.97	10.96	9.54	5.20	15.30	33.00
				H	122.77	15.81	9.54	5.20	20.15	33.00
			E2	V	112.20	5.19	9.54	5.20	9.53	33.00
				H	124.44	17.48	9.54	5.20	21.82	33.00
	1752.60	1513	H	V	122.41	15.41	9.60	5.24	19.78	33.00
				H	121.01	14.06	9.60	5.24	18.43	33.00
			E1	V	119.10	12.10	9.60	5.24	16.47	33.00
				H	122.83	15.88	9.60	5.24	20.25	33.00
			E2	V	112.61	5.61	9.60	5.24	9.98	33.00
				H	124.41	17.46	9.60	5.24	21.83	33.00

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSUPA Band V	826.40	4132	H	V	119.26	32.90	-10.02	3.63	19.25	38.45
				H	113.25	26.99	-10.02	3.63	13.35	38.45
			E1	V	121.93	35.57	-10.02	3.63	21.92	38.45
				H	121.03	34.77	-10.02	3.63	21.13	38.45
			E2	V	114.24	27.88	-10.02	3.63	14.23	38.45
				H	120.22	33.96	-10.02	3.63	20.32	38.45
	836.60	4183	H	V	119.81	33.55	-10.02	3.65	19.88	38.45
				H	113.91	27.68	-10.02	3.65	14.01	38.45
			E1	V	122.62	36.36	-10.02	3.65	22.69	38.45
				H	122.21	35.98	-10.02	3.65	22.31	38.45
			E2	V	114.66	28.40	-10.02	3.65	14.73	38.45
				H	121.71	35.48	-10.02	3.65	21.81	38.45
	846.60	4233	H	V	119.50	33.35	-10.02	3.67	19.66	38.45
				H	115.00	28.80	-10.02	3.67	15.11	38.45
			E1	V	123.02	36.86	-10.02	3.67	<b>23.17</b>	38.45
				H	122.47	36.27	-10.02	3.67	22.58	38.45
			E2	V	115.43	29.28	-10.02	3.67	15.59	38.45
				H	121.92	35.72	-10.02	3.67	22.03	38.45

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSDPA Band II	1852.40	9262	H	V	120.77	16.39	9.90	5.56	20.72	33.00
				H	122.88	18.70	9.90	5.56	23.04	33.00
			E1	V	121.10	16.72	9.90	5.56	21.05	33.00
				H	123.88	19.70	9.90	5.56	24.04	33.00
			E2	V	116.23	11.85	9.90	5.56	16.18	33.00
				H	126.18	22.00	9.90	5.84	<b>26.06</b>	33.00
	1880.00	9400	H	V	120.49	16.13	9.99	5.61	20.51	33.00
				H	122.20	18.06	9.99	5.61	22.43	33.00
			E1	V	120.87	16.48	9.90	5.56	20.82	33.00
				H	123.08	18.94	9.99	5.61	23.31	33.00
			E2	V	116.06	11.70	9.99	5.61	16.08	33.00
				H	125.30	21.16	9.99	5.61	25.53	33.00
	1907.60	9538	H	V	120.66	16.33	10.07	5.66	20.74	33.00
				H	121.38	17.27	10.07	5.66	21.68	33.00
			E1	V	121.08	16.75	10.07	5.66	21.16	33.00
				H	122.67	18.56	10.07	5.66	22.97	33.00
			E2	V	114.73	10.40	10.07	5.66	14.81	33.00
				H	124.10	19.99	10.07	5.66	24.40	33.00

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HSDPA Band IV	1712.40	1312	H	V	119.28	12.26	9.48	5.17	16.58	33.00
				H	118.52	11.55	9.48	5.17	15.86	33.00
			E1	V	117.04	10.02	9.48	5.17	14.34	33.00
				H	121.39	14.42	9.48	5.17	18.73	33.00
			E2	V	109.98	2.96	9.48	5.17	7.28	33.00
				H	122.17	15.20	9.90	5.84	19.26	33.00
	1732.60	1413	H	V	119.08	12.07	9.54	5.20	16.41	33.00
				H	117.94	10.98	9.54	5.20	15.32	33.00
			E1	V	116.21	9.20	9.54	5.20	13.54	33.00
				H	120.77	13.81	9.54	5.20	18.15	33.00
			E2	V	110.24	3.23	9.54	5.20	7.57	33.00
				H	122.36	15.40	9.54	5.20	19.74	33.00
	1752.60	1513	H	V	119.16	12.16	9.60	5.24	16.53	33.00
				H	117.73	10.78	9.60	5.24	15.15	33.00
			E1	V	116.92	9.92	9.60	5.24	14.29	33.00
				H	120.62	13.67	9.60	5.24	18.04	33.00
			E2	V	109.17	2.17	9.60	5.24	6.54	33.00
				H	122.33	15.38	9.60	5.24	<b>19.75</b>	33.00

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSDPA Band V	826.40	4132	H	V	119.42	33.06	-10.02	3.63	19.41	38.45
				H	112.85	26.59	-10.02	3.63	12.95	38.45
			E1	V	122.45	36.09	-10.02	3.63	22.44	38.45
				H	120.89	34.63	-10.02	3.63	20.99	38.45
			E2	V	113.45	27.09	-10.02	3.63	13.44	38.45
				H	119.86	33.60	-10.02	3.63	19.96	38.45
	836.60	4183	H	V	119.62	33.36	-10.02	3.65	19.69	38.45
				H	113.37	27.14	-10.02	3.65	13.47	38.45
			E1	V	123.34	37.08	-10.02	3.65	23.41	38.45
				H	121.99	35.76	-10.02	3.65	22.09	38.45
			E2	V	114.26	28.00	-10.02	3.65	14.33	38.45
				H	121.18	34.95	-10.02	3.65	21.28	38.45
	846.60	4233	H	V	119.39	33.24	-10.02	3.67	19.55	38.45
				H	114.47	28.27	-10.02	3.67	14.58	38.45
			E1	V	123.46	37.30	-10.02	3.67	<b>23.61</b>	38.45
				H	122.75	36.55	-10.02	3.67	22.86	38.45
			E2	V	114.57	28.42	-10.02	3.67	14.73	38.45
				H	121.67	35.47	-10.02	3.67	21.78	38.45

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
CDMA 2000 Cellular	824.70	1013	H	V	120.14	33.78	-7.88	3.63	22.27	38.45
				H	113.35	27.09	-7.88	3.63	15.59	38.45
			E1	V	119.88	33.52	-7.88	3.63	22.01	38.45
				H	119.52	33.26	-7.88	3.63	21.76	38.45
			E2	V	112.58	26.22	-7.88	3.63	14.71	38.45
				H	122.99	36.73	-7.88	3.63	25.23	38.45
	836.52	384	H	V	120.35	34.09	-7.88	3.65	22.56	38.45
				H	113.44	27.21	-7.88	3.65	15.68	38.45
			E1	V	120.18	33.92	-7.88	3.65	22.39	38.45
				H	120.38	34.15	-7.88	3.65	22.62	38.45
			E2	V	113.80	27.54	-7.88	3.65	16.01	38.45
				H	123.41	37.18	-7.88	3.65	<b>25.65</b>	38.45
	848.31	777	H	V	119.98	33.83	-7.88	3.67	22.28	38.45
				H	113.98	27.78	-7.88	3.67	16.23	38.45
			E1	V	119.61	33.45	-7.88	3.67	21.90	38.45
				H	121.17	34.97	-7.88	3.67	23.42	38.45
			E2	V	113.57	27.42	-7.88	3.67	15.87	38.45
				H	122.54	36.34	-7.88	3.67	24.79	38.45

**Remark :**

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

RBW= 2MHz , VBW= 6MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
CDMA 2000 PCS	1851.25	25	H	V	120.15	15.77	9.90	5.56	20.10	33.00
				H	120.37	16.19	9.90	5.56	20.53	33.00
			E1	V	120.56	16.18	9.90	5.56	20.51	33.00
				H	123.60	19.42	9.90	5.56	23.76	33.00
			E2	V	113.66	9.28	9.90	5.56	13.61	33.00
				H	125.28	21.10	9.90	5.84	<b>25.16</b>	33.00
	1880.00	600	H	V	118.68	14.32	9.99	5.61	18.70	33.00
				H	119.49	15.35	9.99	5.61	19.72	33.00
			E1	V	119.90	15.51	9.90	5.56	19.85	33.00
				H	122.46	18.32	9.99	5.61	22.69	33.00
			E2	V	113.19	8.83	9.99	5.61	13.21	33.00
				H	124.32	20.18	9.99	5.61	24.55	33.00
	1908.75	1175	H	V	118.49	14.16	10.07	5.66	18.57	33.00
				H	119.33	15.22	10.07	5.66	19.63	33.00
			E1	V	119.76	15.43	10.07	5.66	19.84	33.00
				H	121.47	17.36	10.07	5.66	21.77	33.00
			E2	V	112.22	7.89	10.07	5.66	12.30	33.00
				H	123.59	19.48	10.07	5.66	23.89	33.00

**Remark :**

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

RBW= 2MHz , VBW= 6MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
CDMA 2000 EVDO Cellular	824.70	1013	H	V	120.24	33.88	-7.88	3.63	22.37	38.45
				H	113.66	27.40	-7.88	3.63	15.90	38.45
			E1	V	119.72	33.36	-7.88	3.63	21.85	38.45
				H	119.84	33.58	-7.88	3.63	22.08	38.45
			E2	V	111.80	25.44	-7.88	3.63	13.93	38.45
				H	120.84	34.58	-7.88	3.63	23.08	38.45
	836.52	384	H	V	120.31	34.05	-7.88	3.65	22.52	38.45
				H	113.30	27.07	-7.88	3.65	15.54	38.45
			E1	V	120.24	33.98	-7.88	3.65	22.45	38.45
				H	120.90	34.67	-7.88	3.65	23.14	38.45
			E2	V	112.74	26.48	-7.88	3.65	14.95	38.45
				H	122.06	35.83	-7.88	3.65	<b>24.30</b>	38.45
	848.31	777	H	V	120.02	33.87	-7.88	3.67	22.32	38.45
				H	113.95	27.75	-7.88	3.67	16.20	38.45
			E1	V	120.89	34.73	-7.88	3.67	23.18	38.45
				H	120.98	34.78	-7.88	3.67	23.23	38.45
			E2	V	112.82	26.67	-7.88	3.67	15.12	38.45
				H	121.91	35.71	-7.88	3.67	24.16	38.45

**Remark :**

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

RBW= 2MHz , VBW= 6MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
CDMA 2000 EVDO PCS	1851.25	25	H	V	118.05	13.67	9.90	5.56	18.00	33.00
				H	117.39	13.21	9.90	5.56	17.55	33.00
			E1	V	120.55	16.17	9.90	5.56	20.50	33.00
				H	124.92	20.74	9.90	5.56	<b>25.08</b>	33.00
			E2	V	113.04	8.66	9.90	5.56	12.99	33.00
				H	123.39	19.21	9.90	5.84	23.27	33.00
	1880.00	600	H	V	116.32	11.96	9.99	5.61	16.34	33.00
				H	116.53	12.39	9.99	5.61	16.76	33.00
			E1	V	120.68	16.29	9.90	5.56	20.63	33.00
				H	124.47	20.33	9.99	5.61	24.70	33.00
			E2	V	114.71	10.35	9.99	5.61	14.73	33.00
				H	124.23	20.09	9.99	5.61	24.46	33.00
	1908.75	1175	H	V	115.88	11.55	10.07	5.66	15.96	33.00
				H	116.28	12.17	10.07	5.66	16.58	33.00
			E1	V	119.77	15.44	10.07	5.66	19.85	33.00
				H	123.35	19.24	10.07	5.66	23.65	33.00
			E2	V	113.83	9.50	10.07	5.66	13.91	33.00
				H	123.29	19.18	10.07	5.66	23.59	33.00

**Remark :**

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

RBW= 2MHz , VBW= 6MHz

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## **8. 99% OCCUPIED BANDWIDTH MEASUREMENT**

### **8.1. Standard Applicable:**

According to §FCC 2.1049.

According to IC RSS-Gen Issue 3 §4.6.1

According to IC RSS-133 §2.3

According to IC RSS-139 §2.3

### **8.2. Test Set-up:**

Refer to section 5.2 in this report

### **8.3. Measurement Procedure:**

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW (10/30KHz) for GSM/EDGE; VBW= 3 times RBW (47/150KHz) for WCDMA/HSUPA/HSDPA, VBW= 3 times RBW (15/47KHz) for CDMA/EVDO, -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.

### **8.4. Measurement Equipment Used:**

Refer to section 2.4 in this report

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## 8.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (kHz)
GPRS 850	824.20	128	244.6782
	836.60	190	241.3566
	848.80	251	246.6951

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (kHz)
GPRS 1900	1850.20	512	243.4708
	1880.00	661	242.5162
	1909.80	810	244.7937

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (kHz)
EDGE 850	824.20	128	245.0372
	836.60	190	246.0747
	848.80	251	248.4843

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (kHz)
EDGE 1900	1850.20	512	247.0667
	1880.00	661	241.9567
	1909.80	810	244.8822

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.1398
	1880.00	9400	4.1544
	1907.60	9538	4.1414

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.1442
	1732.60	1413	4.1438
	1752.60	1513	4.1332

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.1299
	836.00	4180	4.1393
	846.60	4233	4.1299

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.4	9262	4.1542
	1880.0	9400	4.1509
	1907.6	9538	4.1421

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.1417
	1732.60	1413	4.1387
	1752.60	1513	4.1501

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1585
	836.60	4183	4.1349
	846.60	4233	4.1316

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.4	9262	4.1459
	1880.0	9400	4.1486
	1907.6	9538	4.1353

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA IV	1712.40	1312	4.1791
	1732.60	1413	4.1647
	1752.60	1513	4.1476

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.1395
	836.60	4183	4.1367
	846.60	4233	4.1434

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 Cellular	824.70	1013	1.2665
	836.52	384	1.2682
	848.31	777	1.2675

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 PCS	1851.25	25	1.2673
	1880.00	600	1.2637
	1908.75	1175	1.2637

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 EVDO Cellular	824.70	1013	1.2661
	836.52	384	1.2696
	848.31	777	1.2669

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 EVDO PCS	1851.25	25	1.2679
	1880.00	600	1.2647
	1908.75	1175	1.2681

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Figure 8-1: GPRS 850 Channel Low

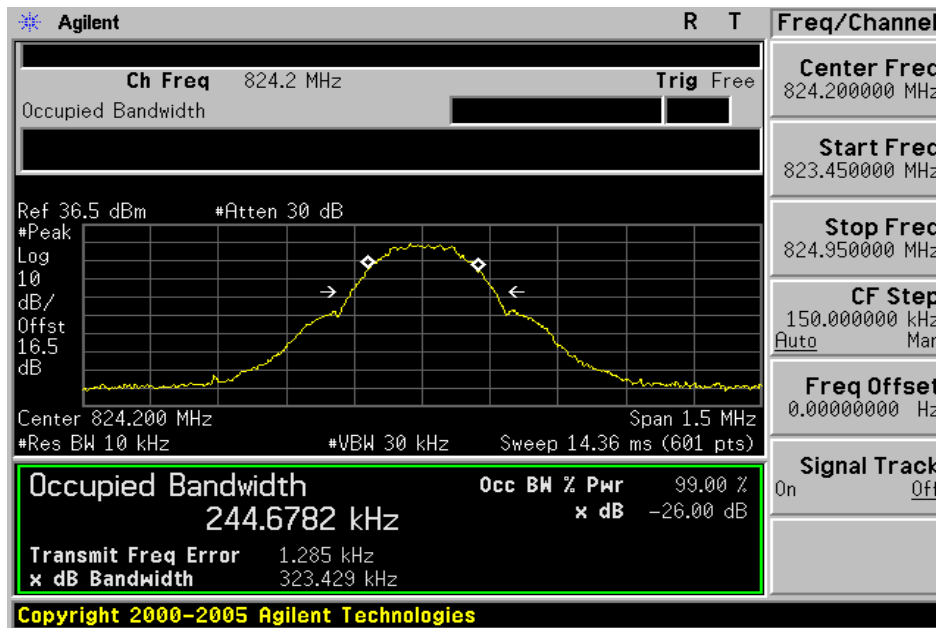
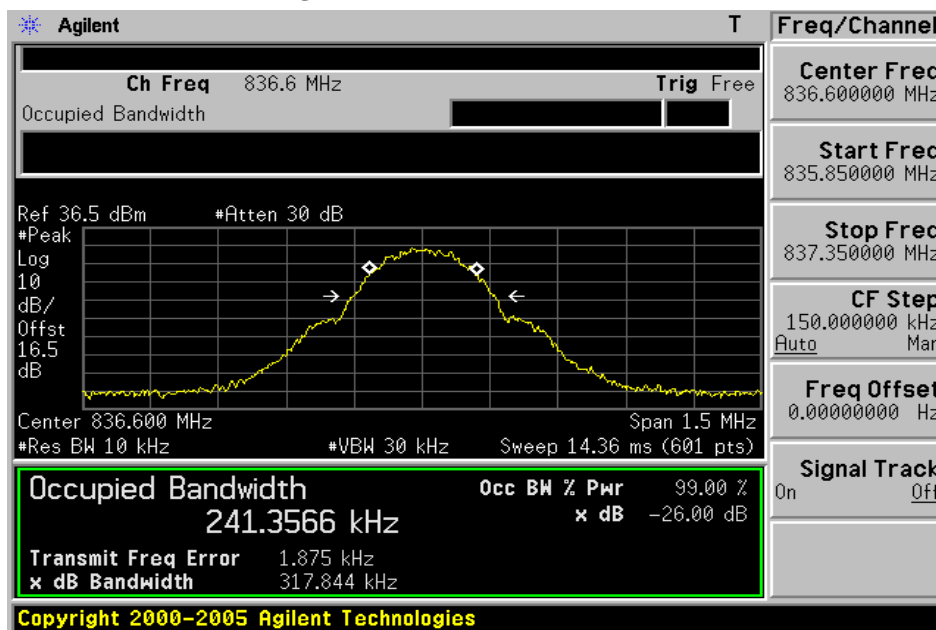


Figure 8-2: GPRS 850 Channel Mid



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Figure 8-3: GPRS 850 Channel High

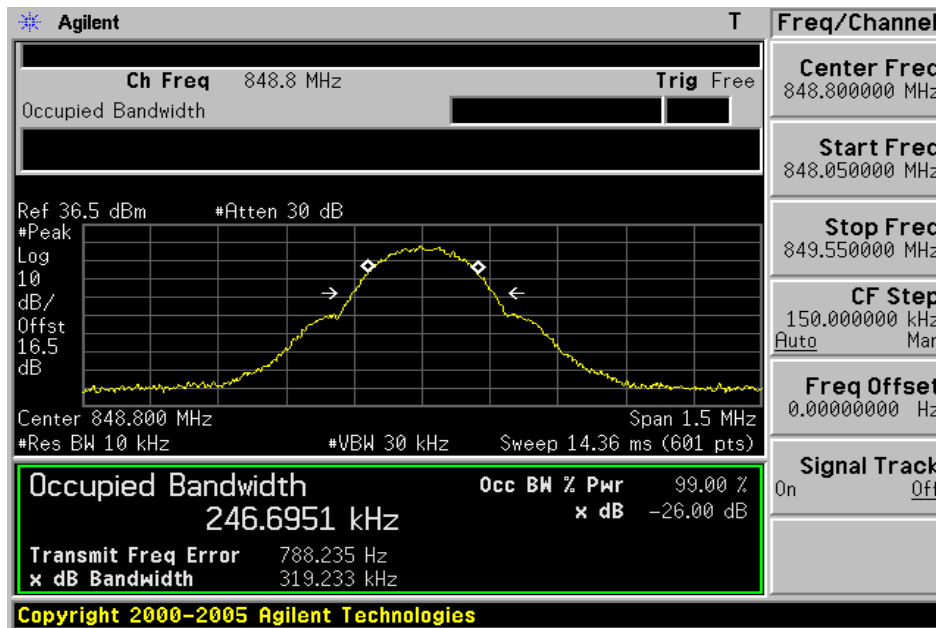
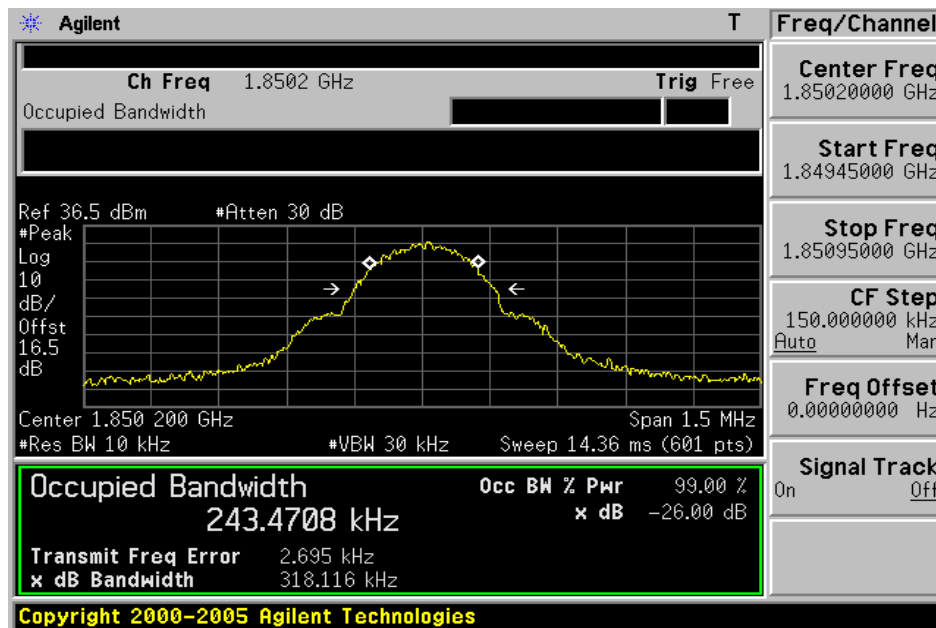


Figure 8-4: GPRS 1900 Channel Low



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Figure 8-5: GPRS 1900 Channel Mid

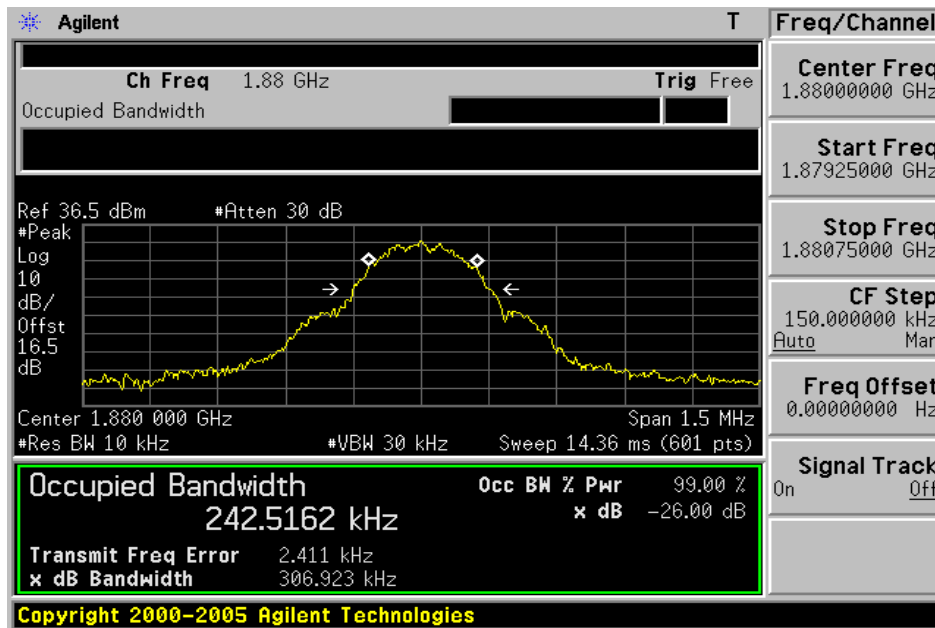
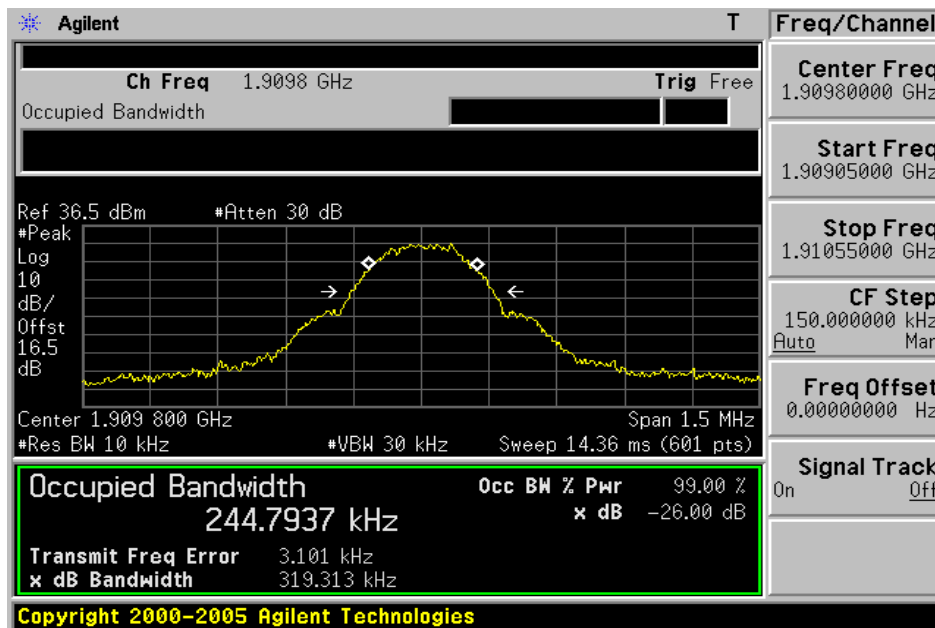


Figure 8-6: GPRS 1900 Channel High



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Figure 8-7: EDGE 850 Channel Low

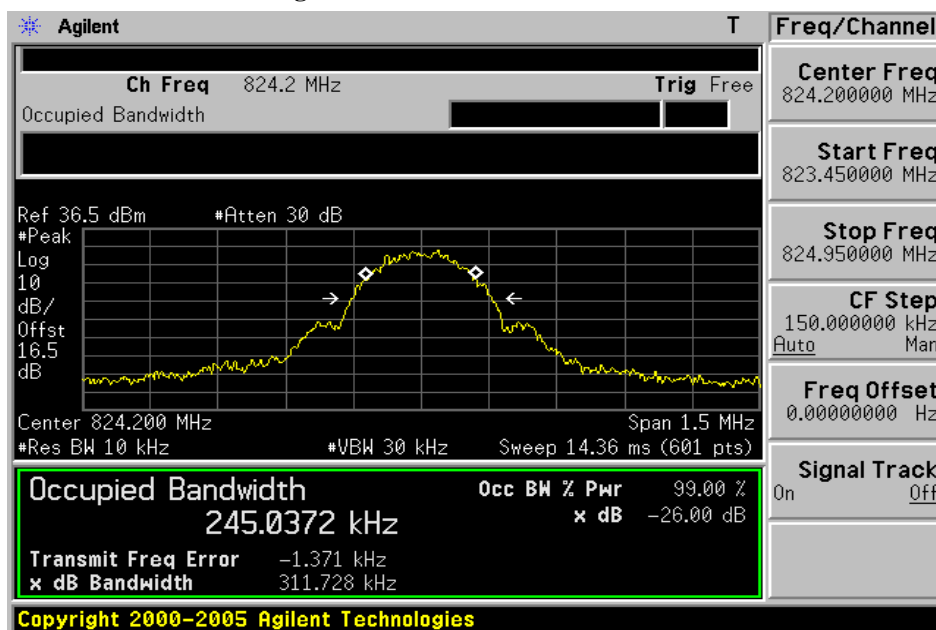
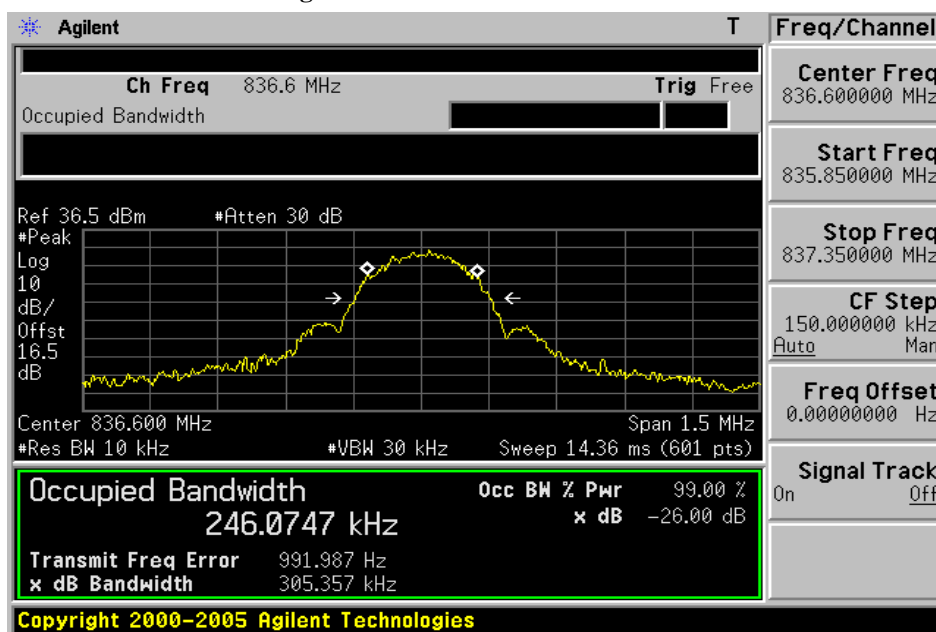


Figure 8-8 EDGE 850 Channel Mid



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Figure 8-9: EDGE 850 Channel High

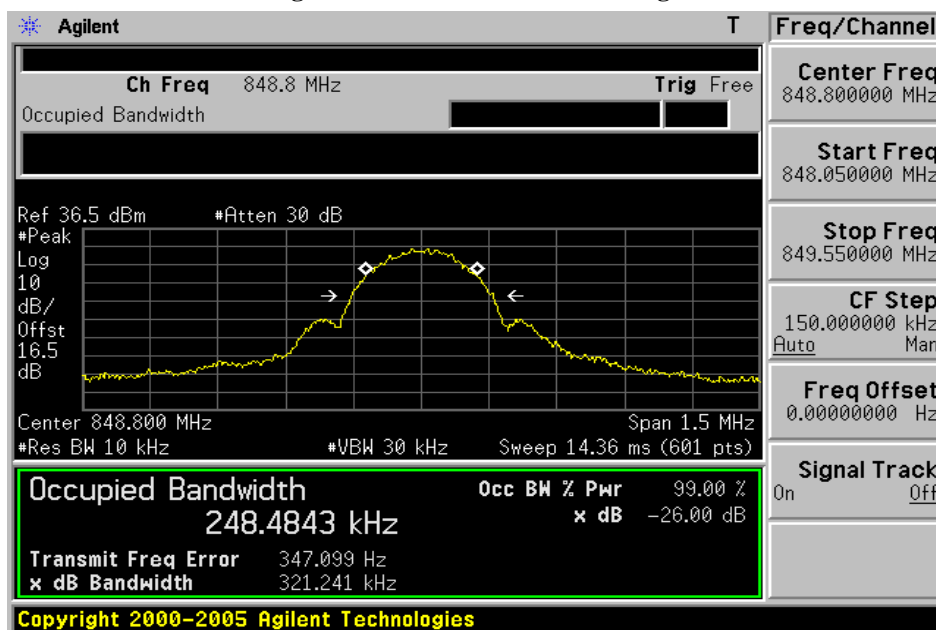
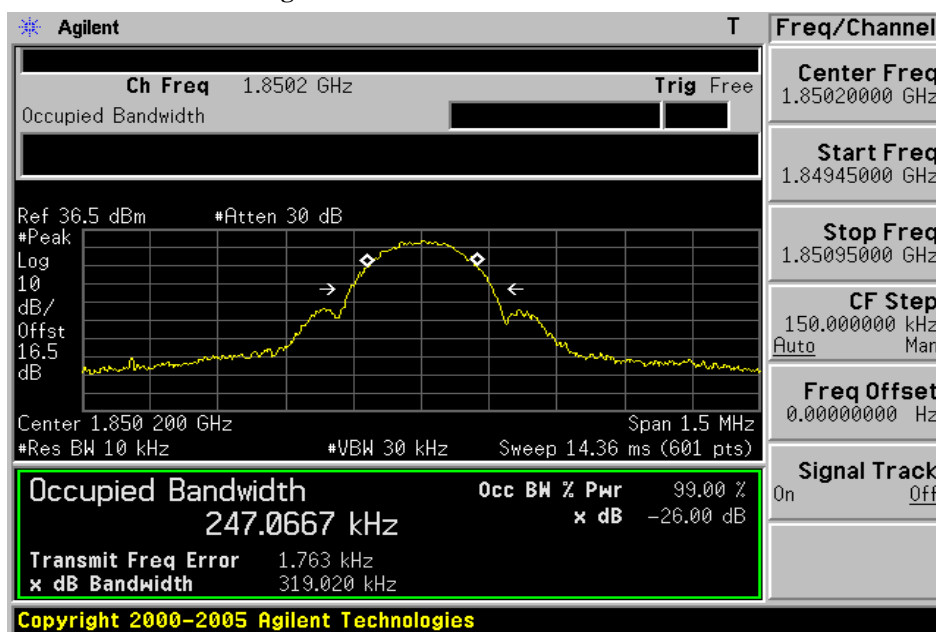


Figure 8-10: EDGE 1900 Channel Low



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Figure 8-11 EDGE 1900 Channel Mid

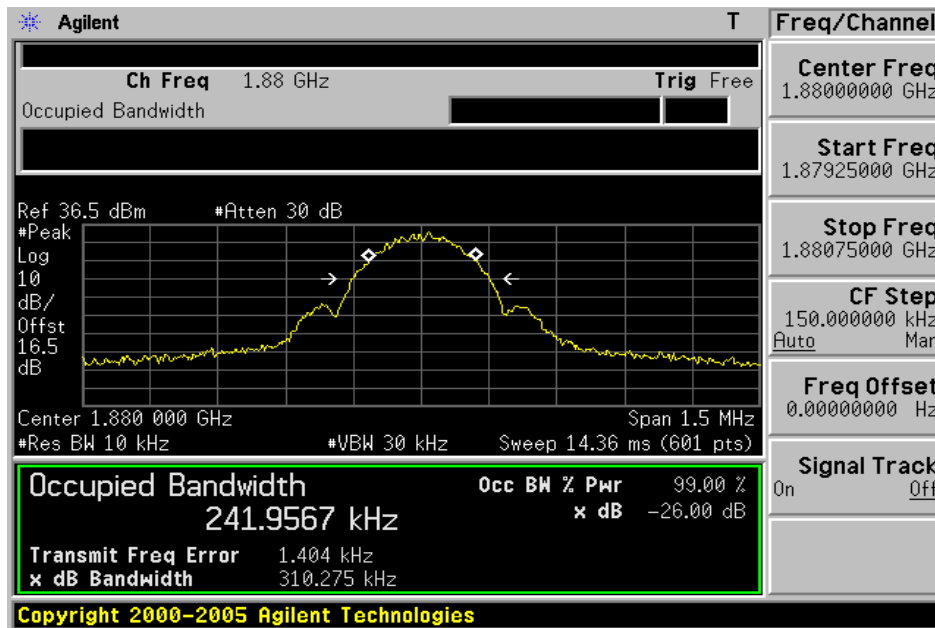
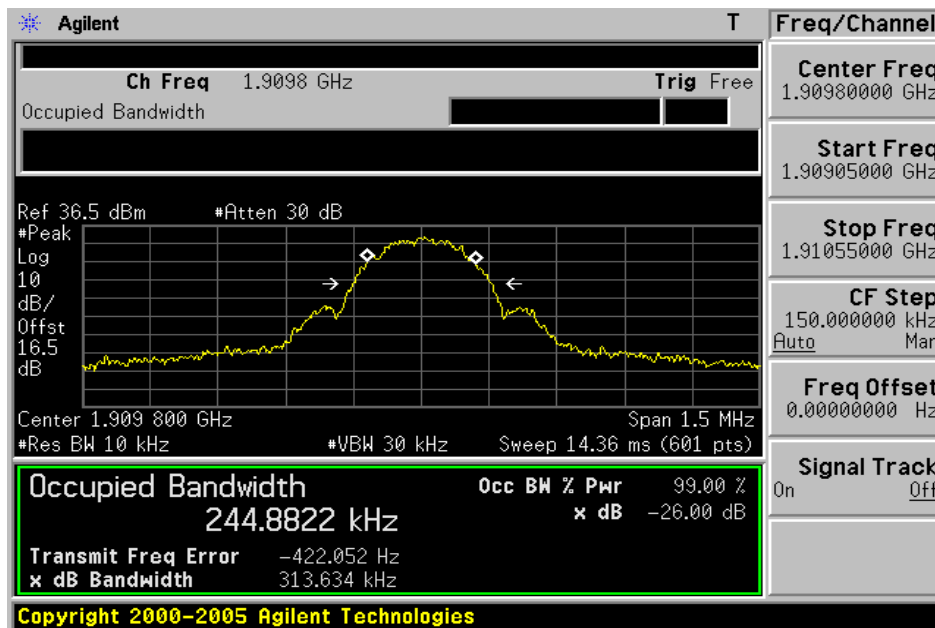


Figure 8-12: EDGE 1900 Channel High



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Figure 8-13: WCDMA II Channel Low

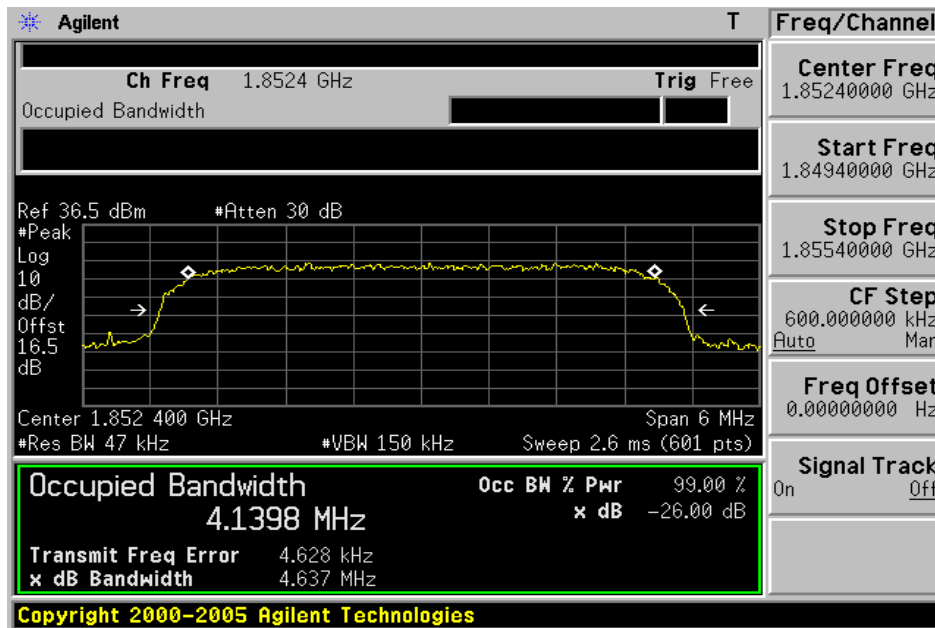
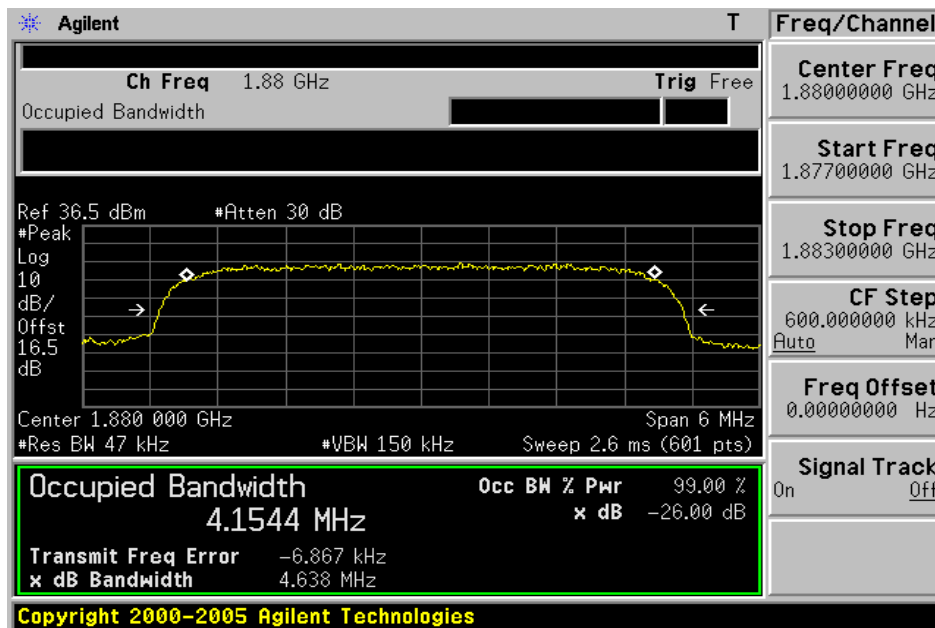


Figure 8-14 WCDMA II Channel Mid



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Figure 8-15: WCDMA II Channel High

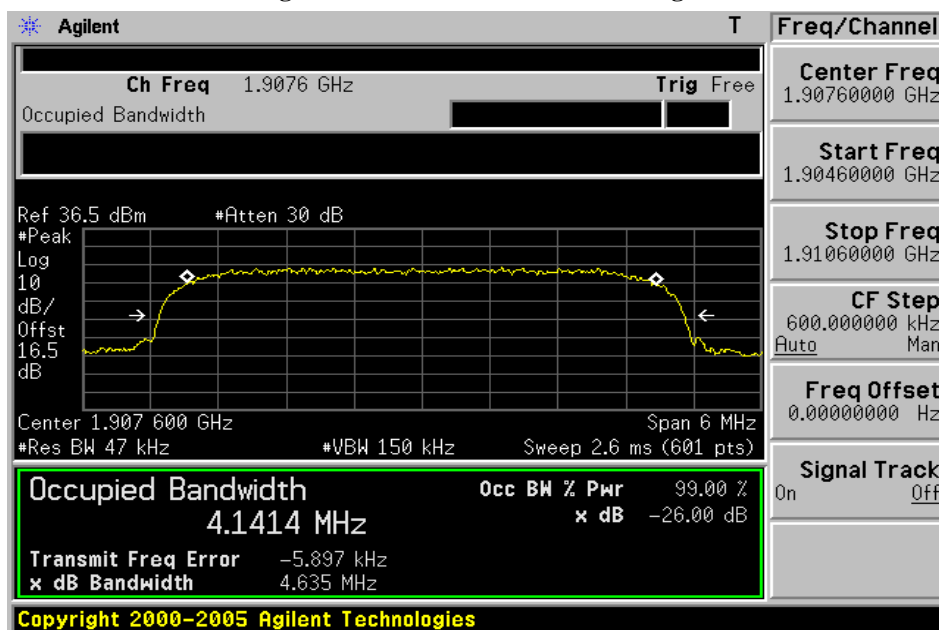
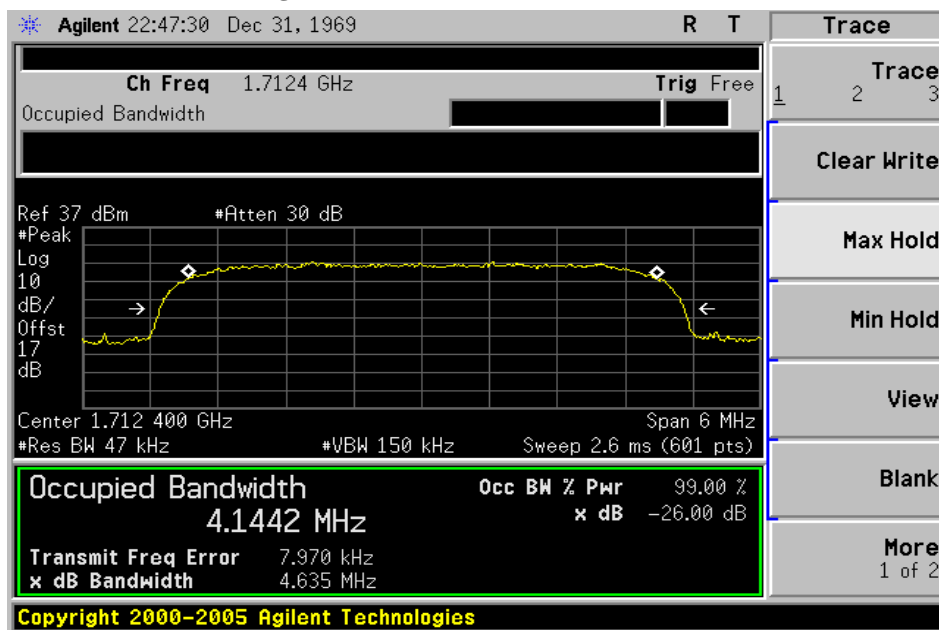


Figure 8-16: WCDMA IV Channel Low



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Figure 8-17 WCDMA IV Channel Mid

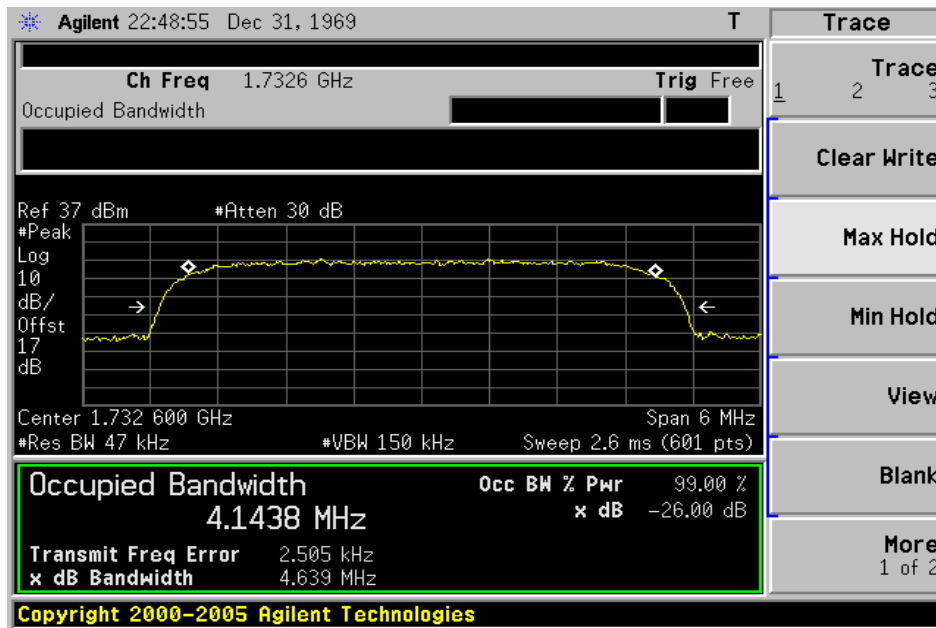
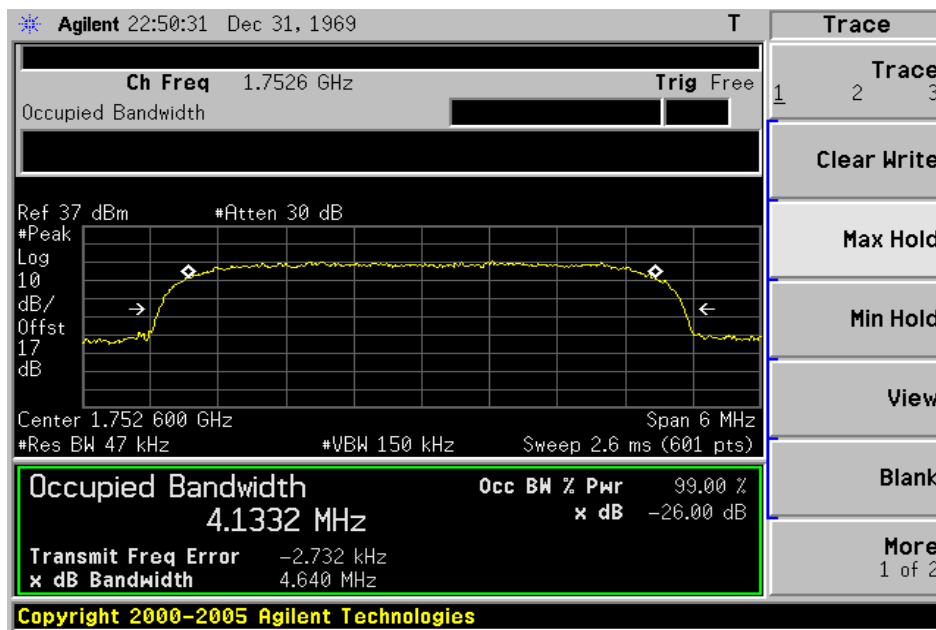


Figure 8-18: WCDMA IV Channel High



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Figure 8-19: WCDMA V Channel Low

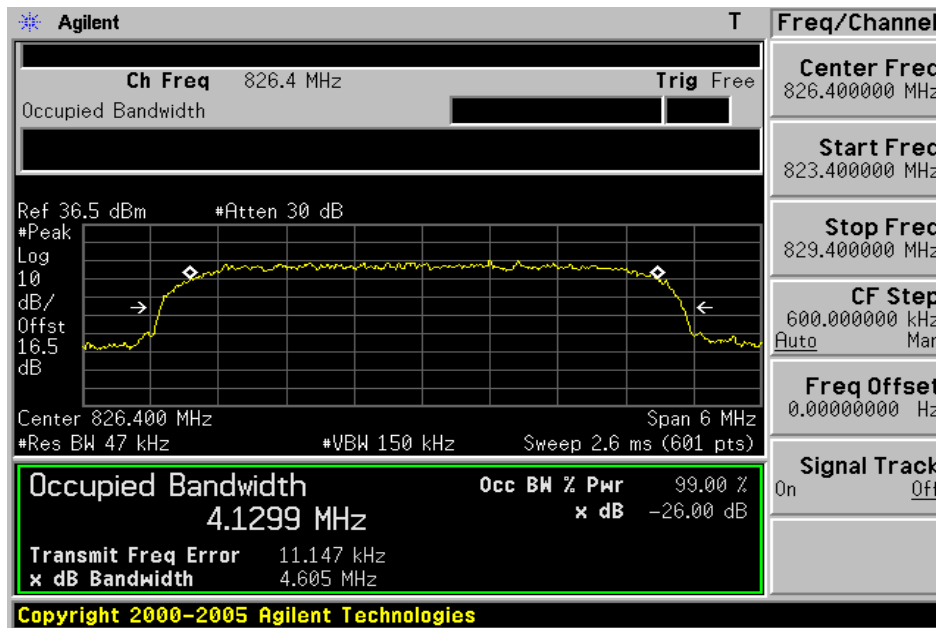
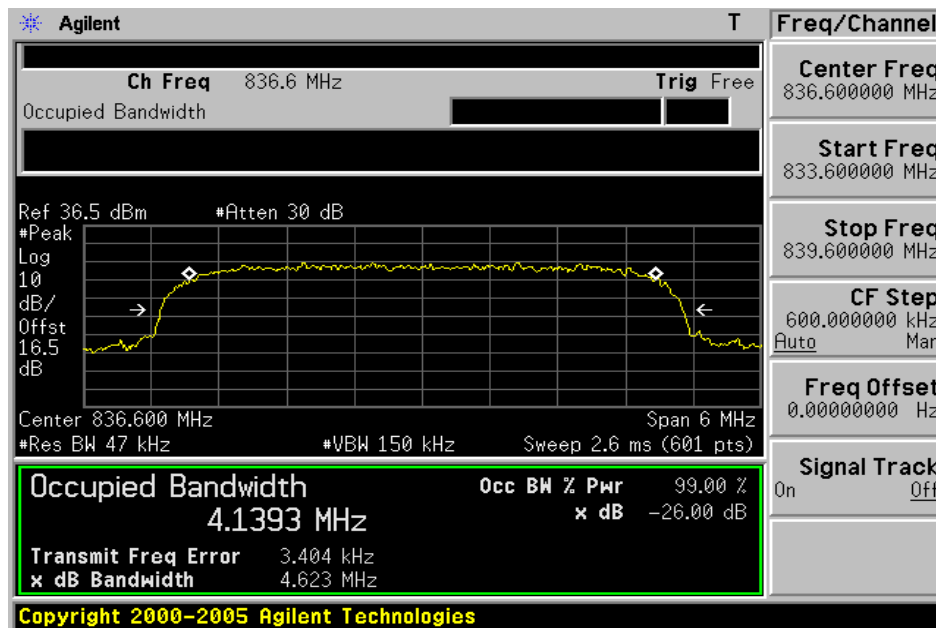


Figure 8-20: WCDMA V Channel Mid



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Figure 8-21: WCDMA V Channel High

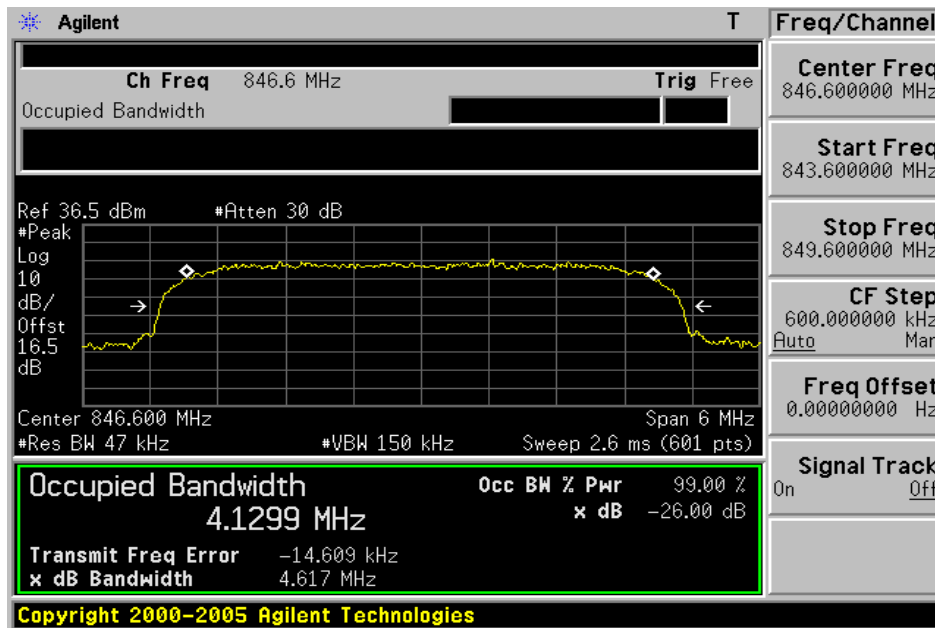
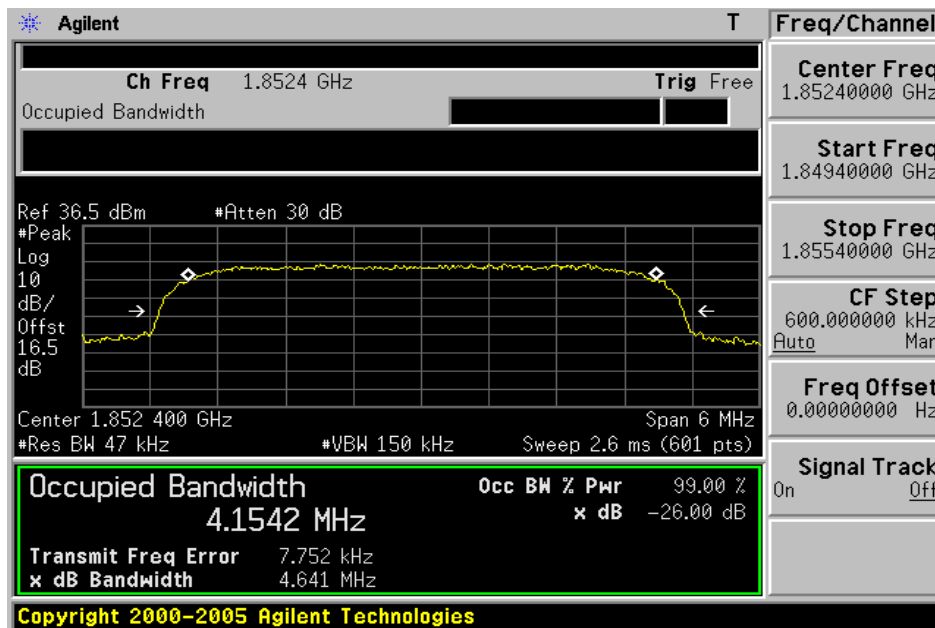


Figure 8-22: HSUPA II Channel Low



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Figure 8-23: HSUPA II Channel Mid

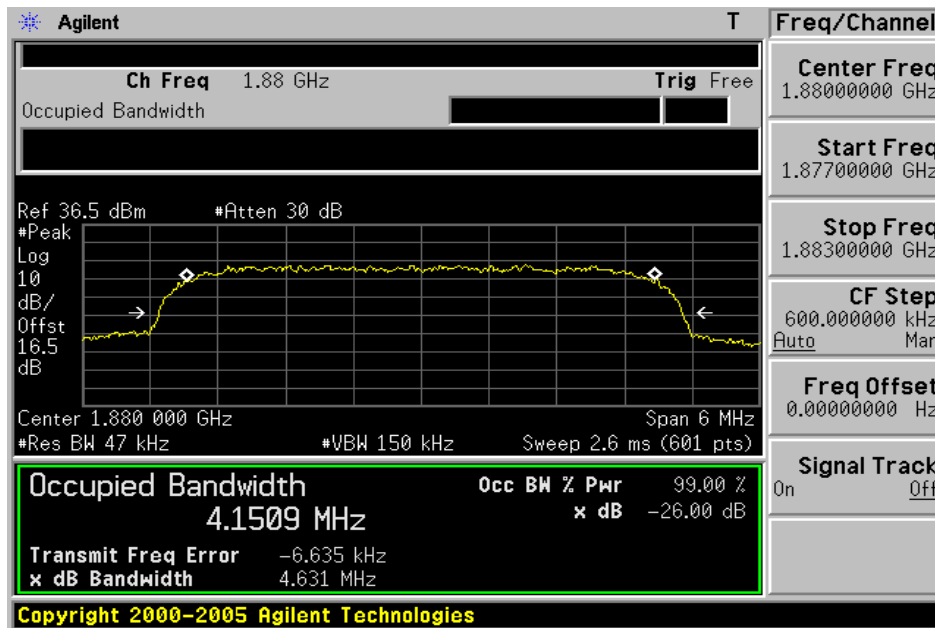
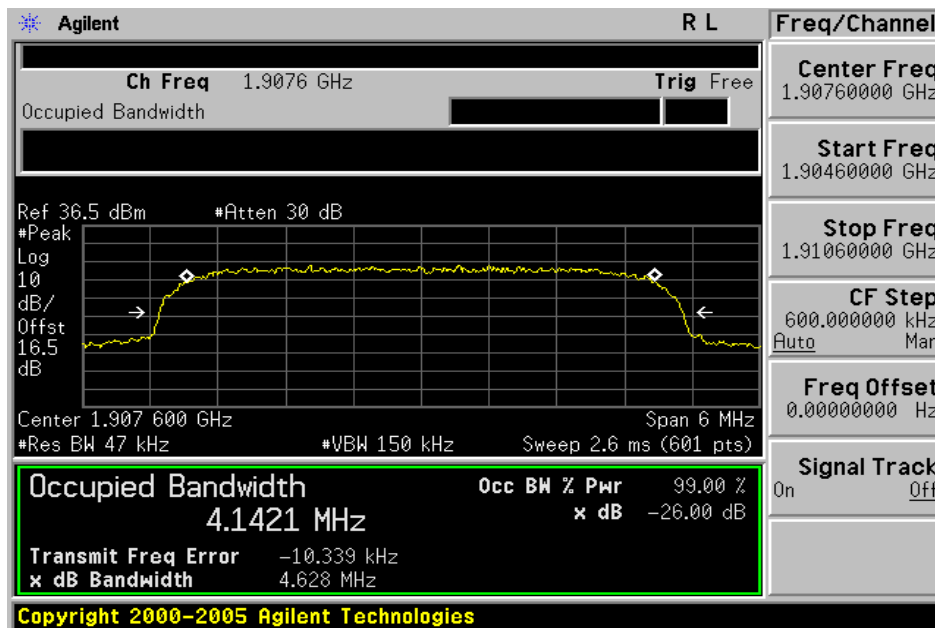


Figure 8-24: HSUPA II Channel High



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Figure 8-25: HSUPA IV Channel Low

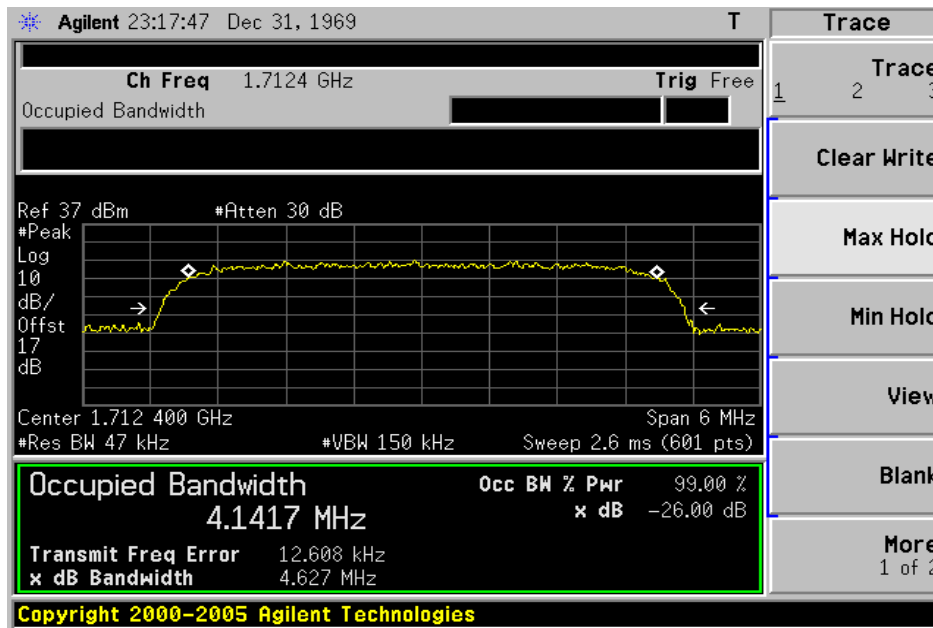
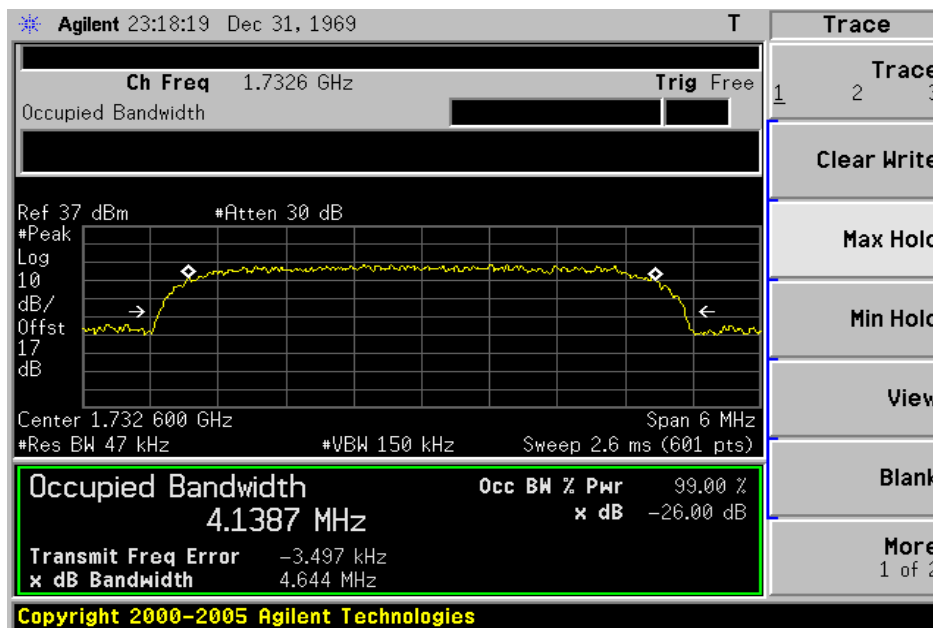


Figure 8-26 HSUPA IV Channel Mid



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Figure 8-27: HSUPA IV Channel High

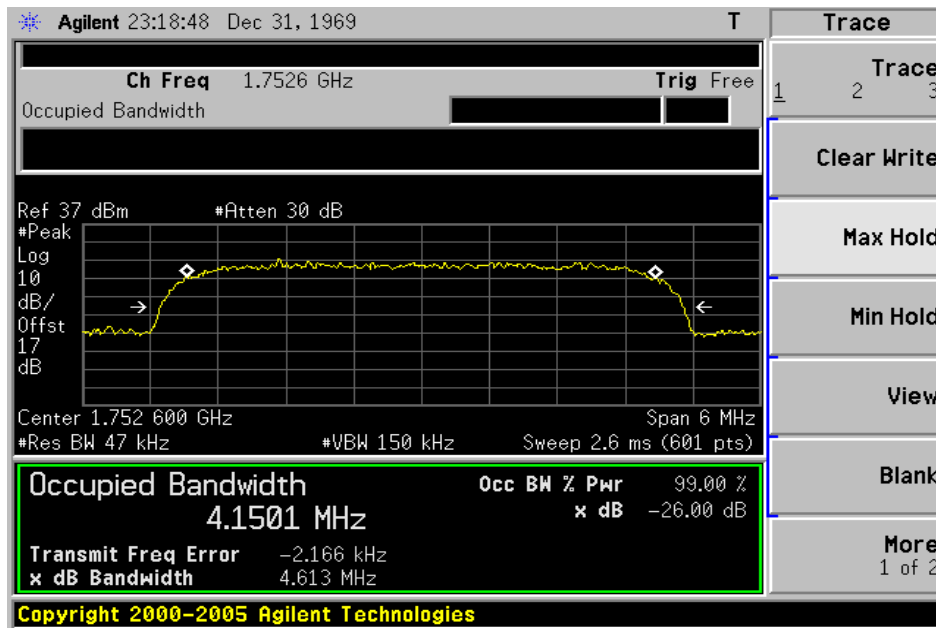
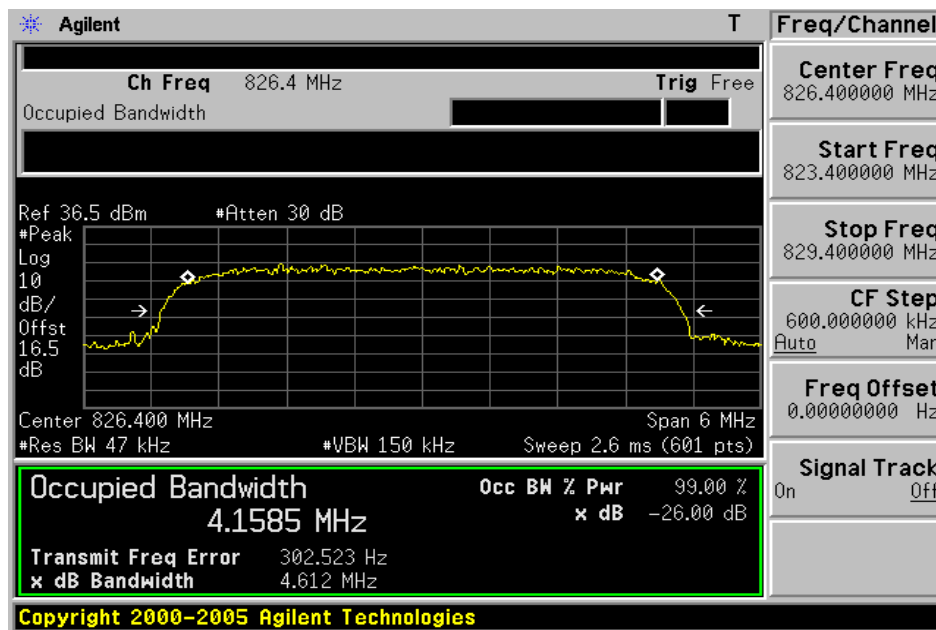


Figure 8-28: HSUPA V Channel Low



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Figure 8-29: HSUPA V Channel Mid

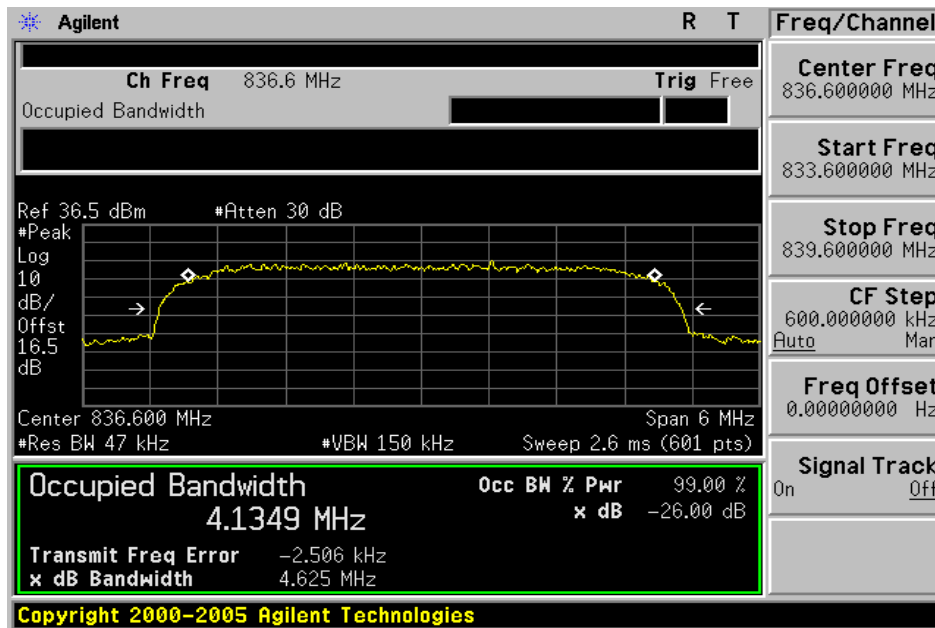
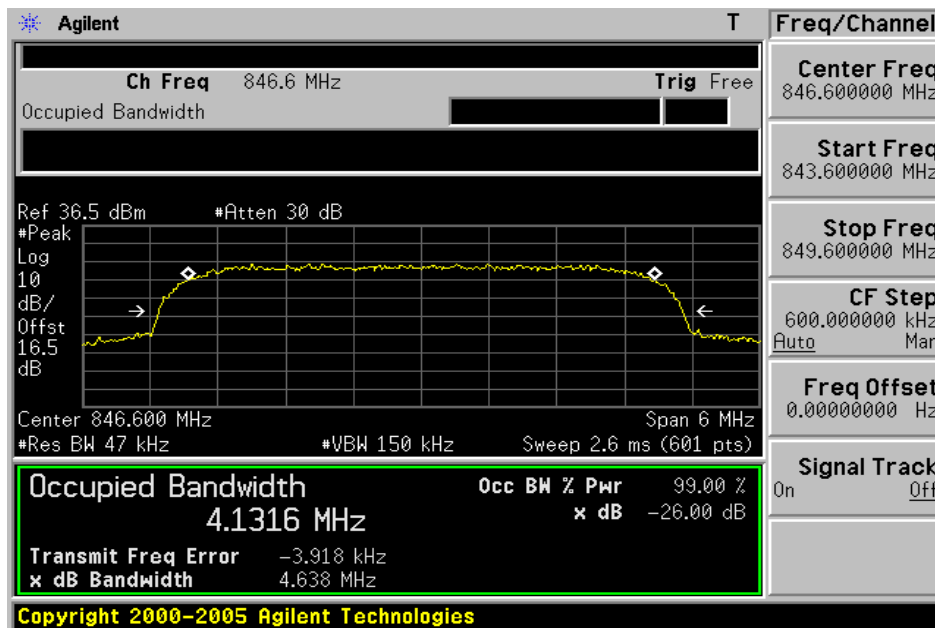


Figure 8-30: HSUPA V Channel High



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Figure 8-31: HSDPA II Channel Low

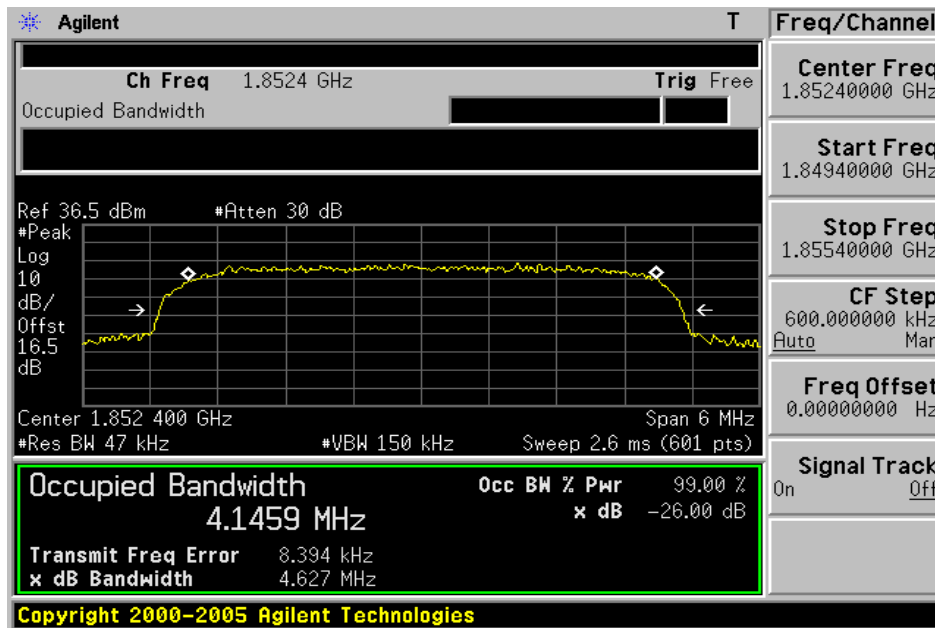
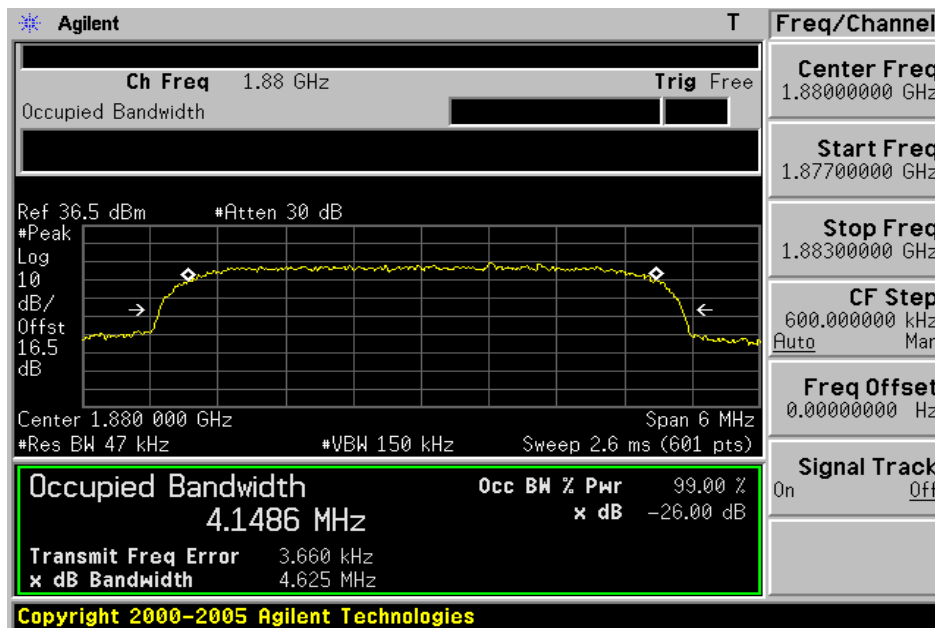


Figure 8-31: HSDPA II Channel Mid



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Figure 8-33: HSDPA II Channel High

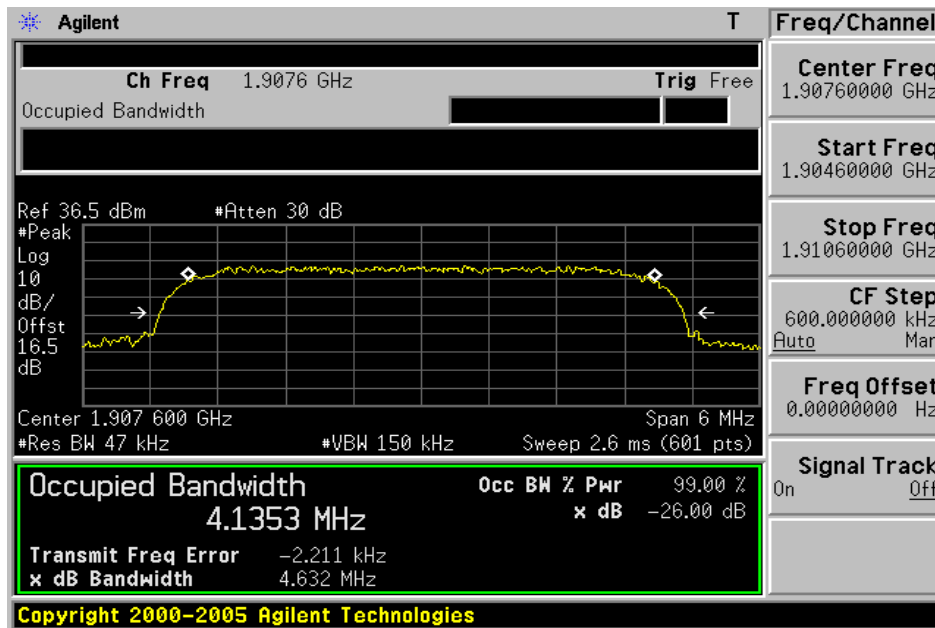
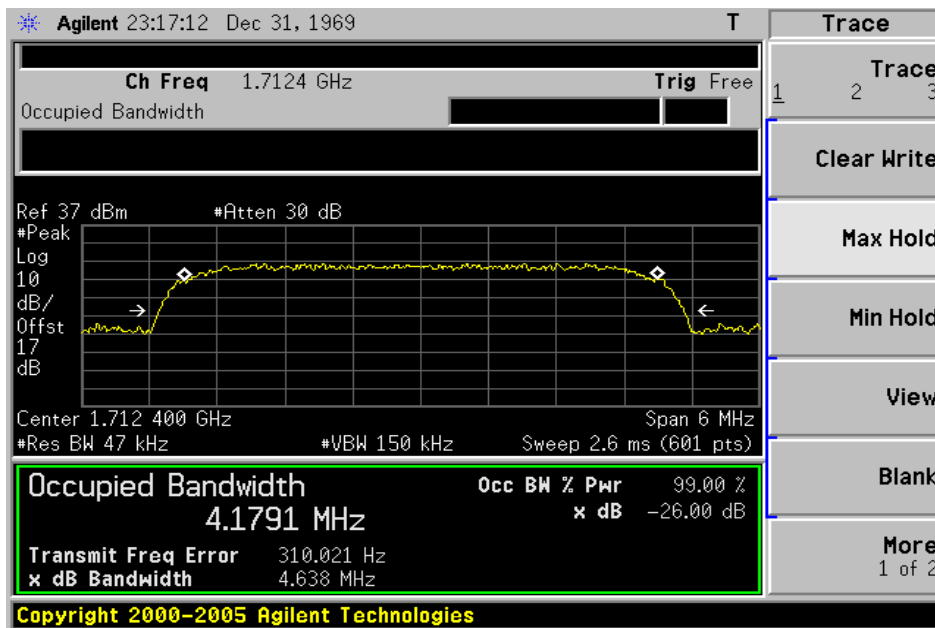


Figure 8-34: HSDPA IV Channel Low



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Figure 8-35 HSDPA IV Channel Mid

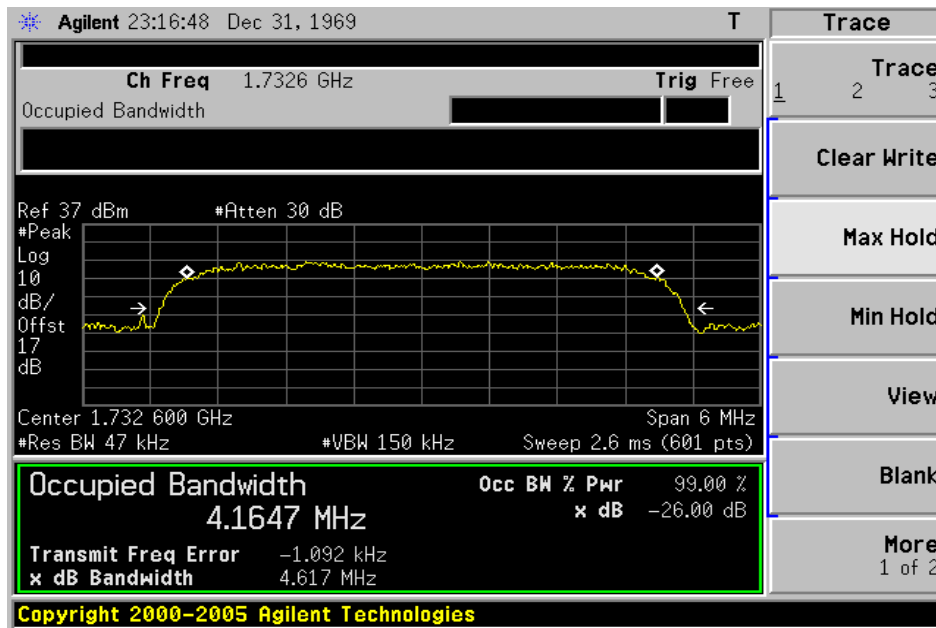
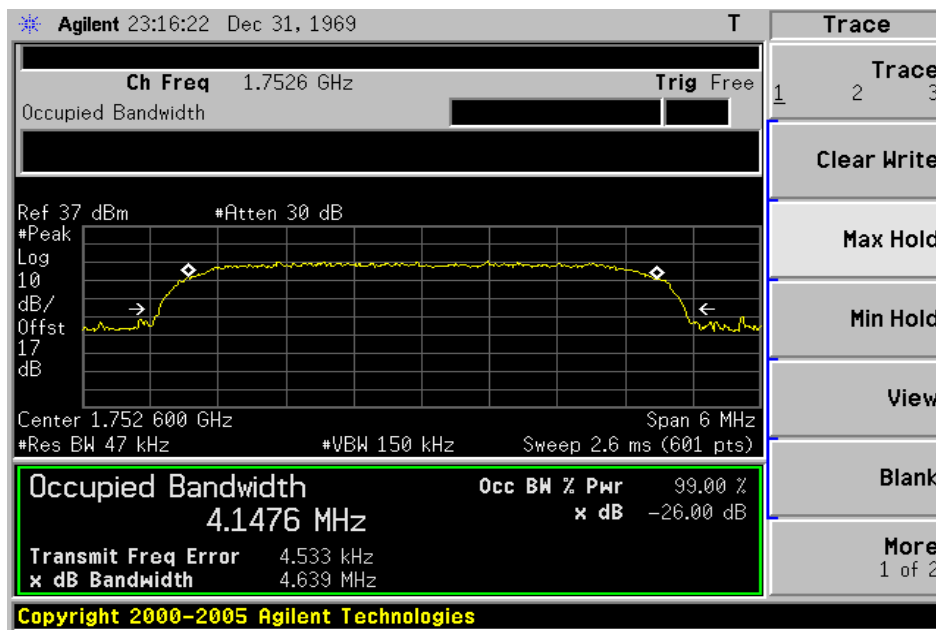


Figure 8-36: HSDPA IV Channel High



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Figure 8-37: HSDPA V Channel Low

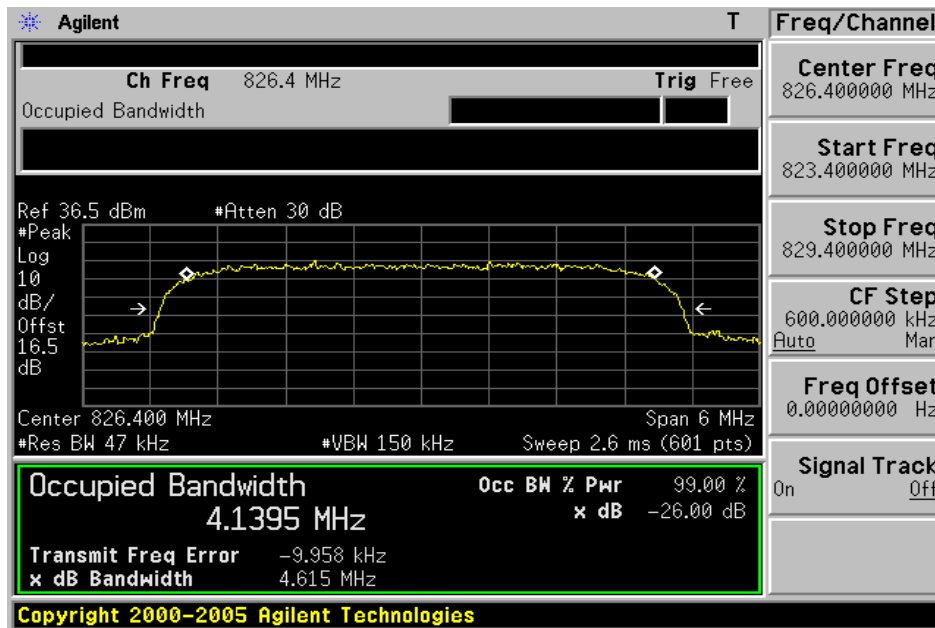
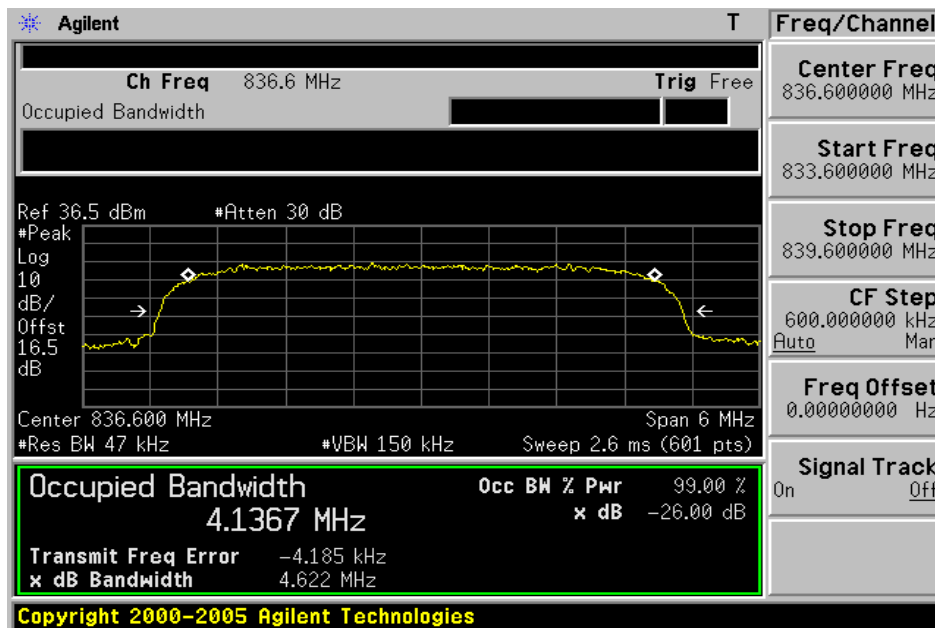


Figure 8-38: HSDPA V Channel Mid



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Figure 8-39: HSDPA V Channel High

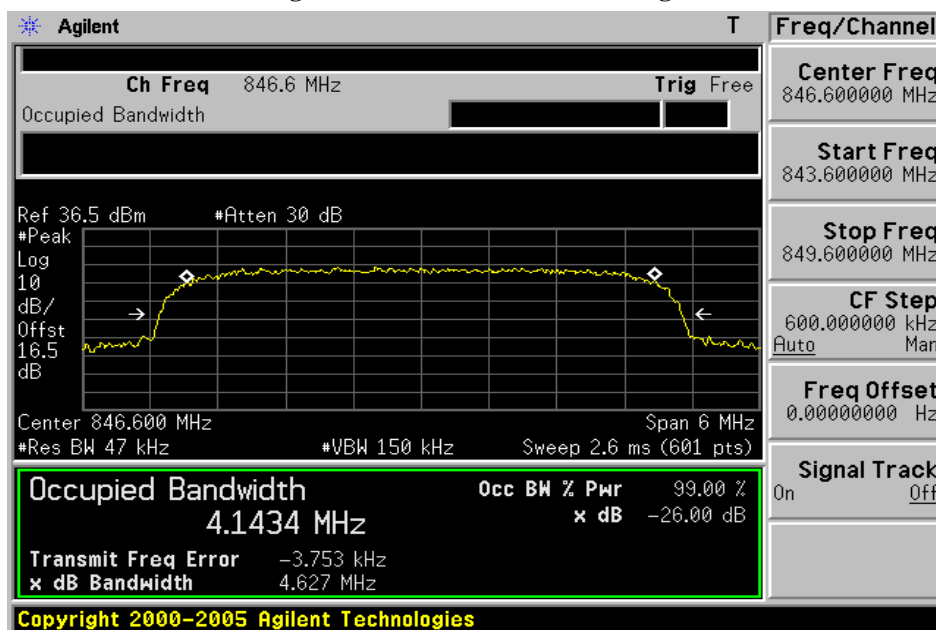
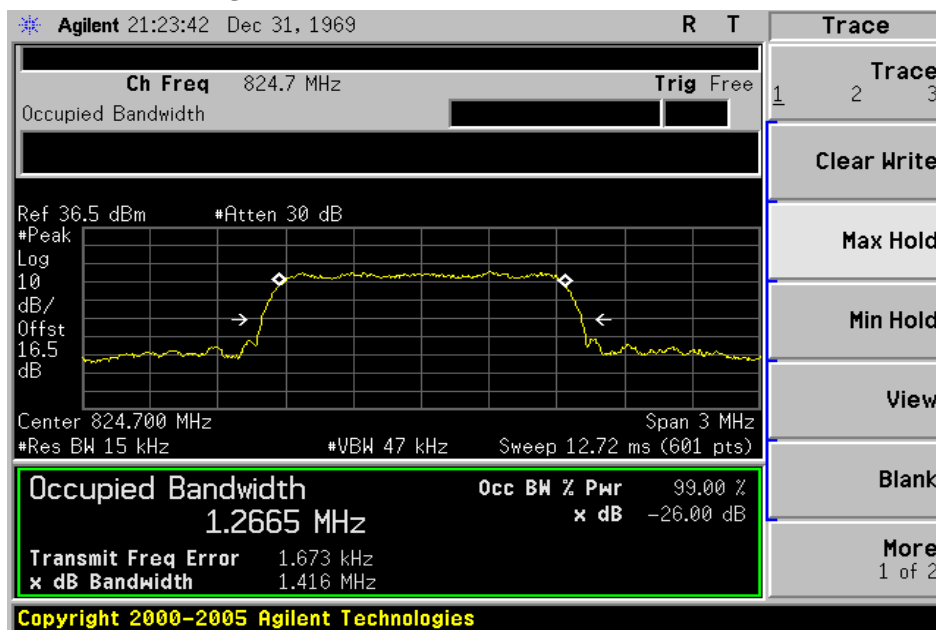


Figure 8-40: CDMA 2000 Cellular Channel Low



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Figure 8-41: CDMA 2000 Cellular Channel Mid

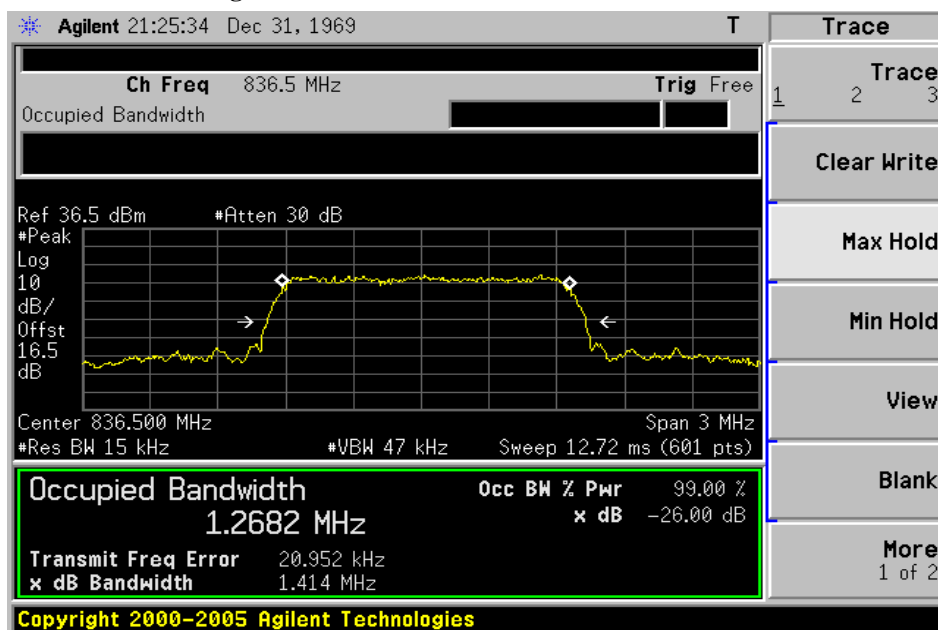
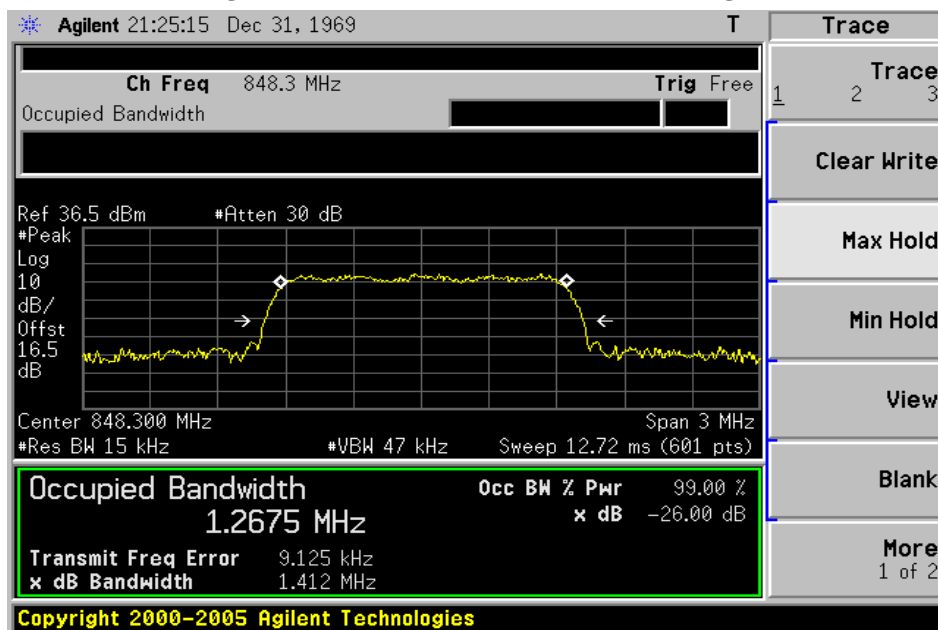


Figure 8-42: CDMA 2000 Cellular Channel High



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Figure 8-43: CDMA 2000 PCS Channel Low

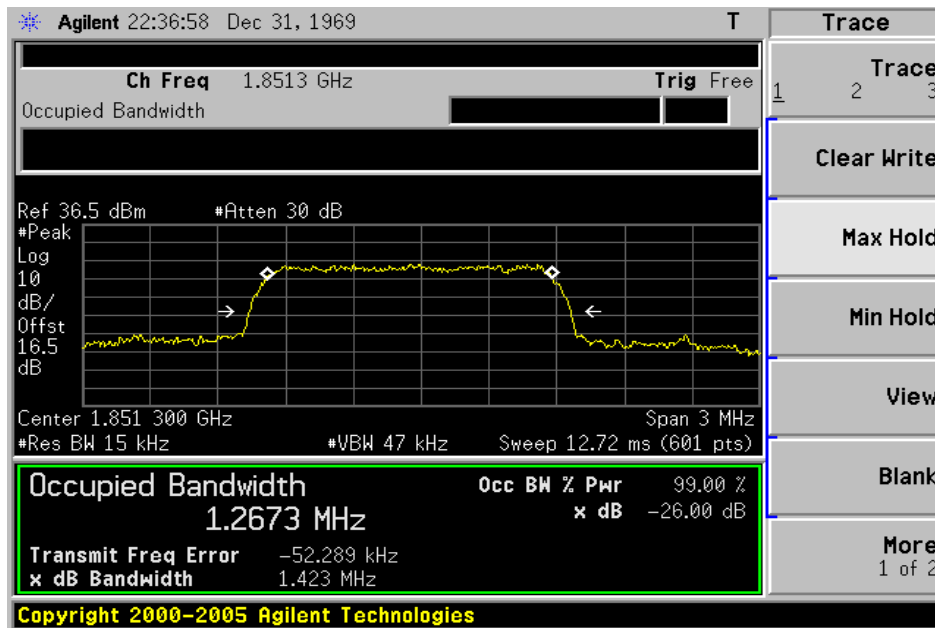
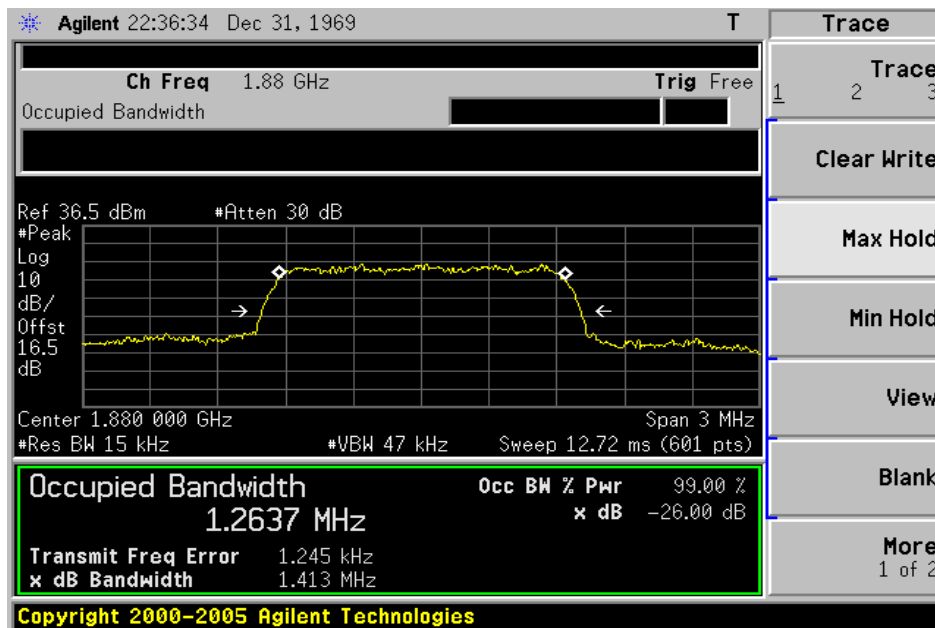


Figure 8-44: CDMA 2000 PCS Channel Mid



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Figure 8-45: CDMA 2000 PCS Channel High

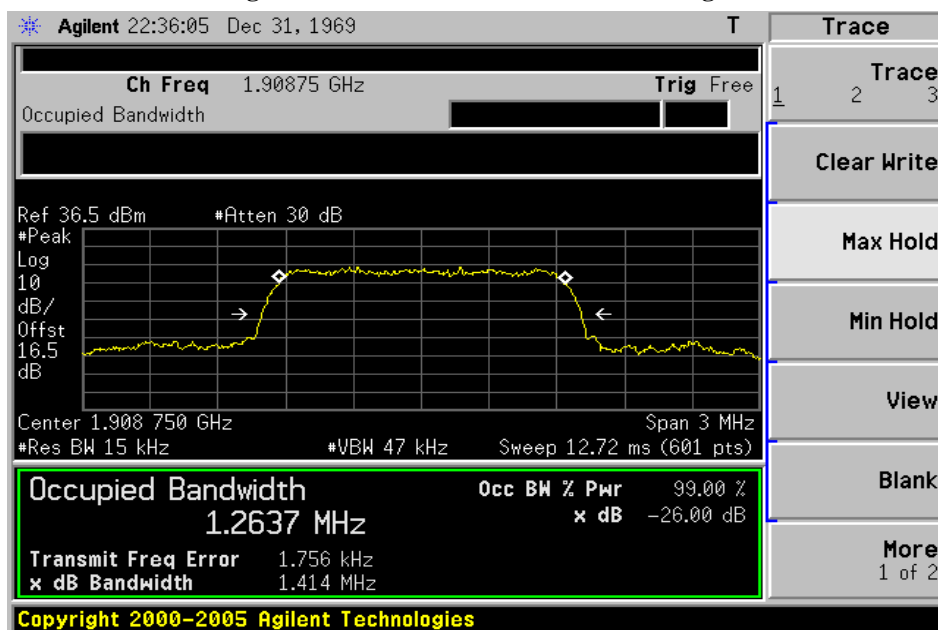
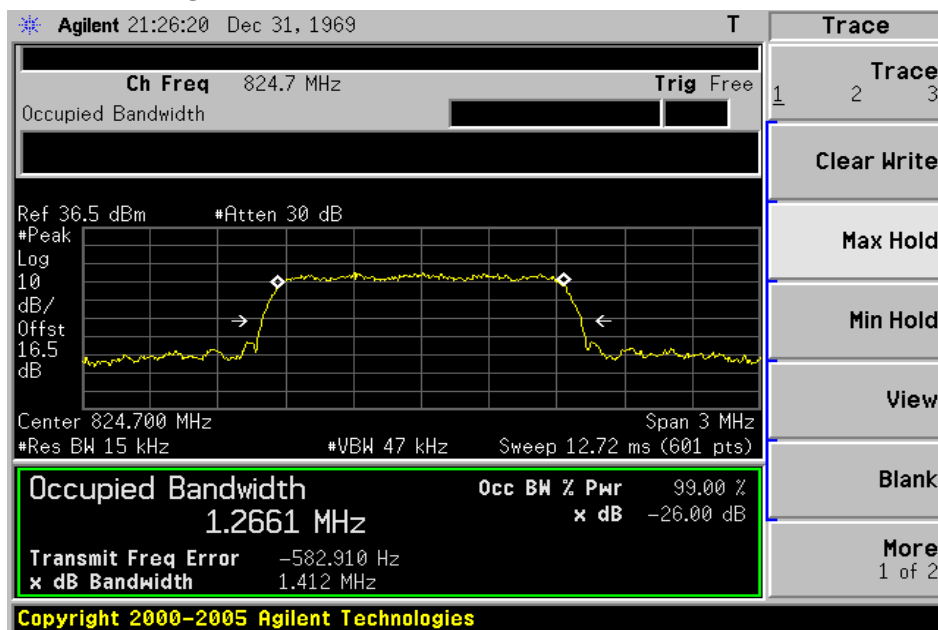


Figure 8-46: CDMA 2000 EVDO Cellular Channel Low



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Figure 8-47: CDMA 2000 EVDO Cellular Channel Mid

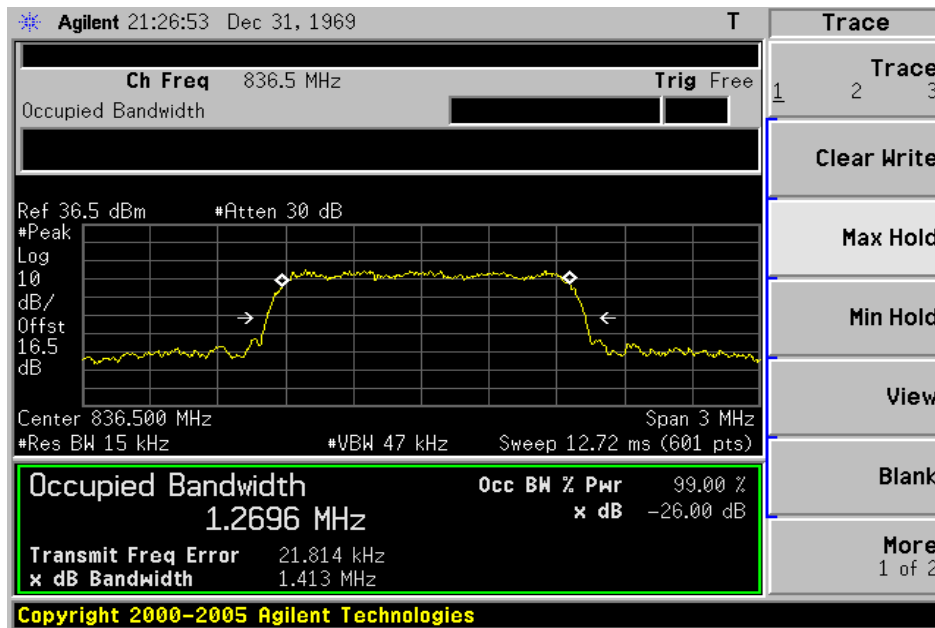
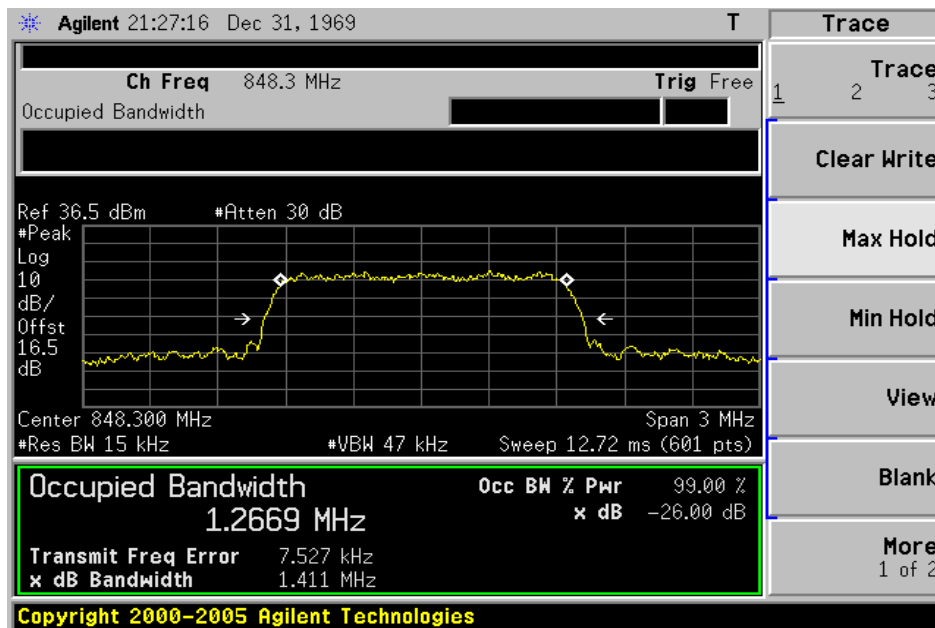


Figure 8-48: CDMA 2000 EVDO Cellular Channel High



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Figure 8-49: CDMA 2000 EVDO PCS Channel Low

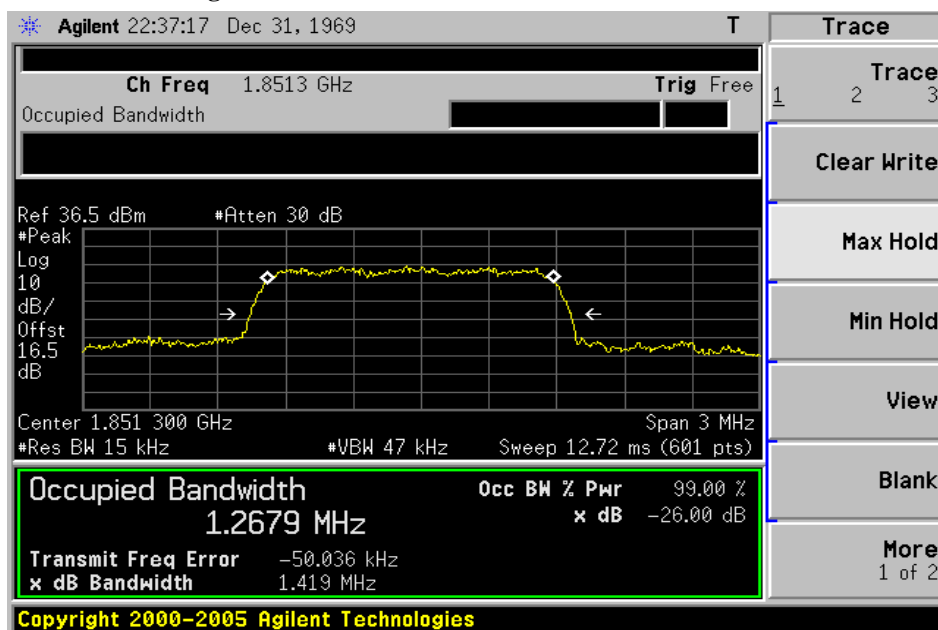
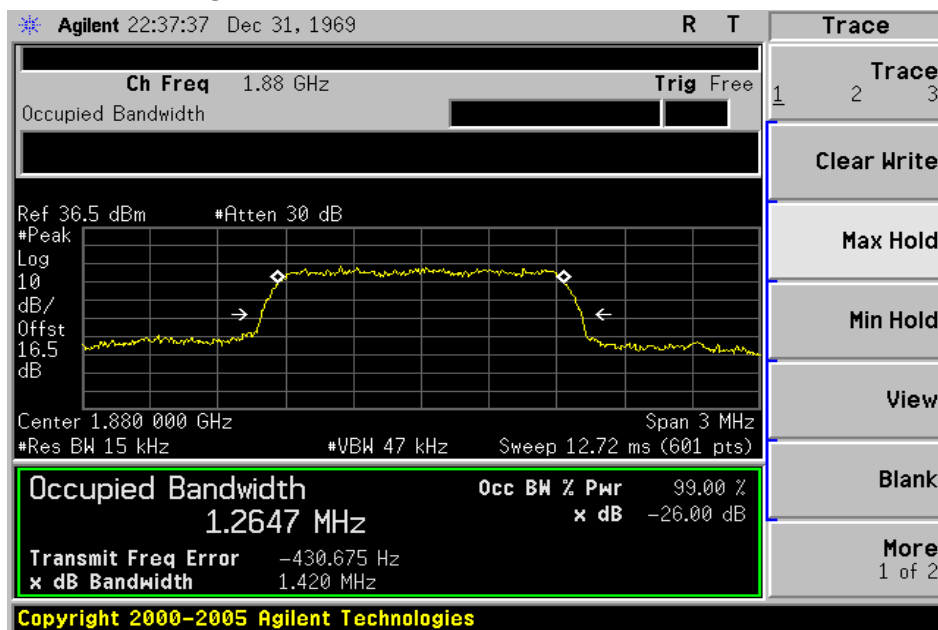


Figure 8-50: CDMA 2000 EVDO PCS Channel Mid



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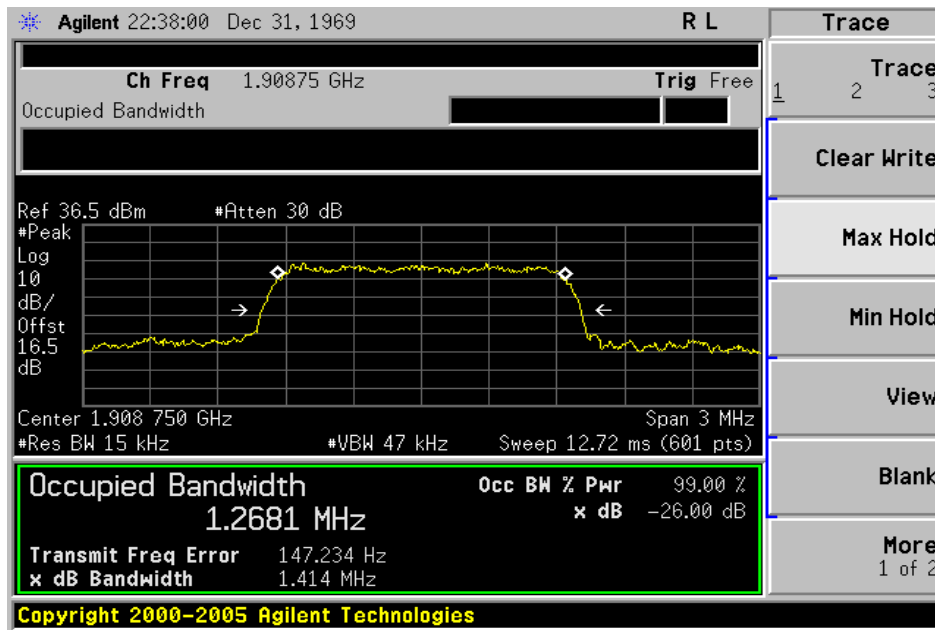
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Figure 8-51: CDMA 2000 EVDO PCS Channel High



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## 9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 9.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), §27.53(g) 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 licensee's frequency block (-13dBm)

According to RSS-132 §4.5

#### 4.5.1 Out-of-block Emissions

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

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

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

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

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

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According to RSS-133 §6.5

#### 6.5.1 Out-of-Block Emissions

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

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

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

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

#### 6.5.2 Out-of-Sub-band Emissions

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

According to RSS-139 §6.5

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

(ii) After the first 1.0 MHz outside the equipment's operating frequency block, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in watts) by at least  $43 + 10 \log_{10}(P)$ , dB.

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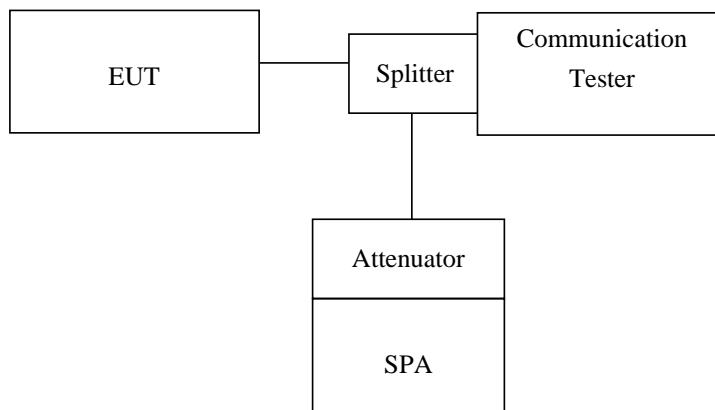
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## 9.2. Test SET-UP:



*Note: Measurement setup for testing on Antenna connector*

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## 9.3. 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.

For operations in the 698–746 MHz band, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. Limit, -13dBm.

### Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G, 10G to 15G and 15G to 20GHz

Via Software, combine 6 spans of frequency range into one plot

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## 9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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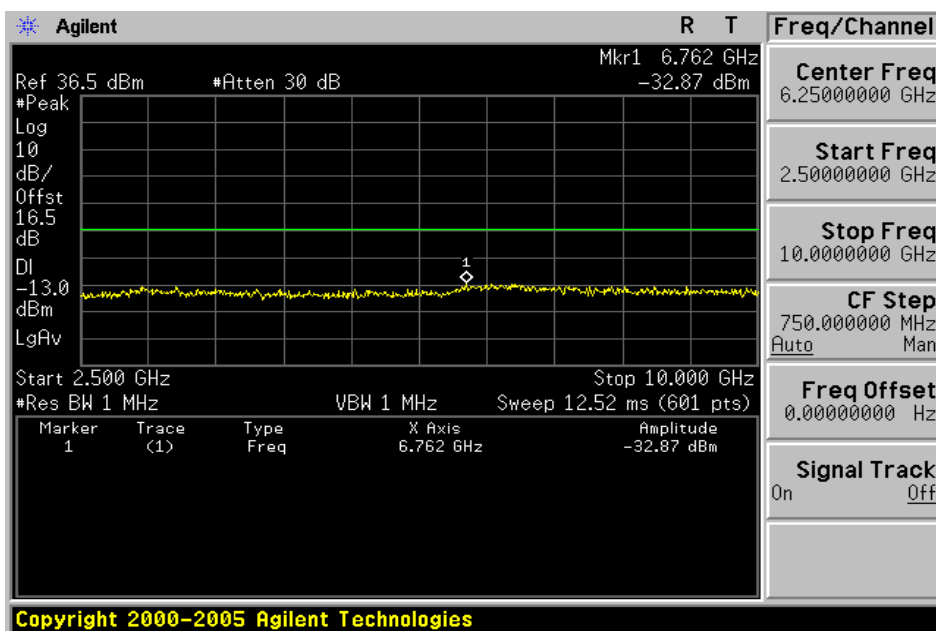
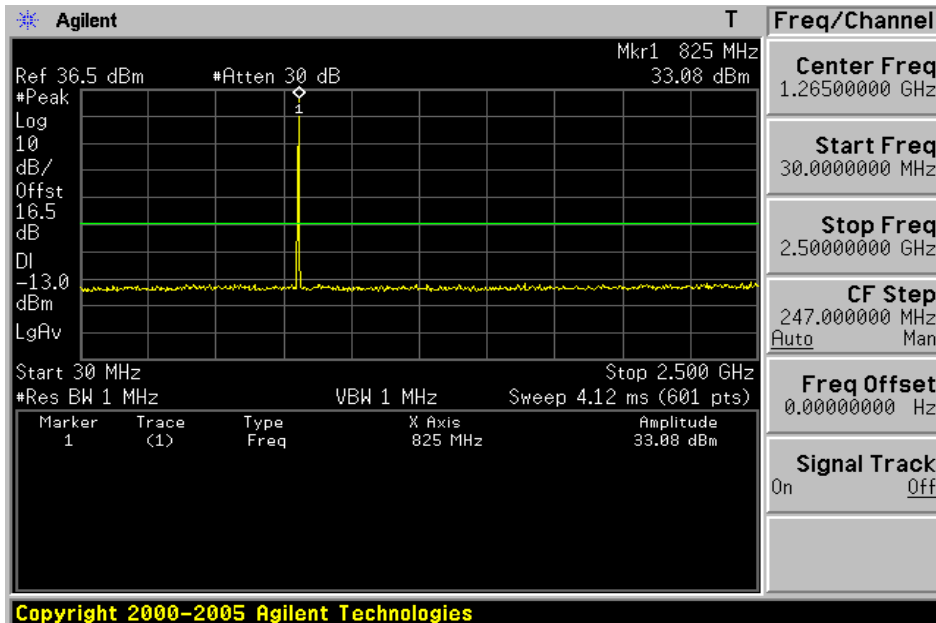
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## 9.5. Measurement Result:

Figure 9-1: Out of Band emission at antenna terminals – GPRS 850 Channel Lowest



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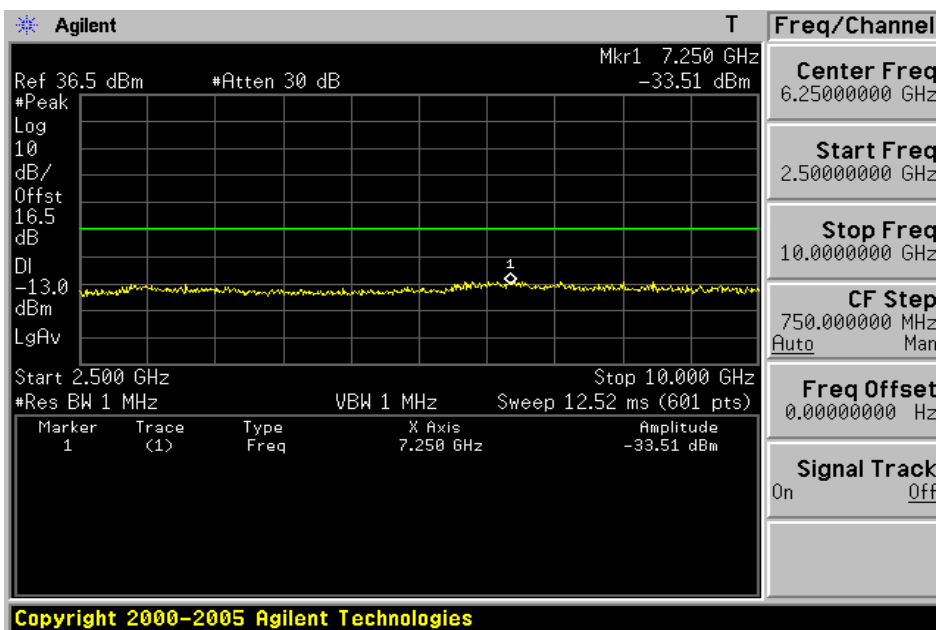
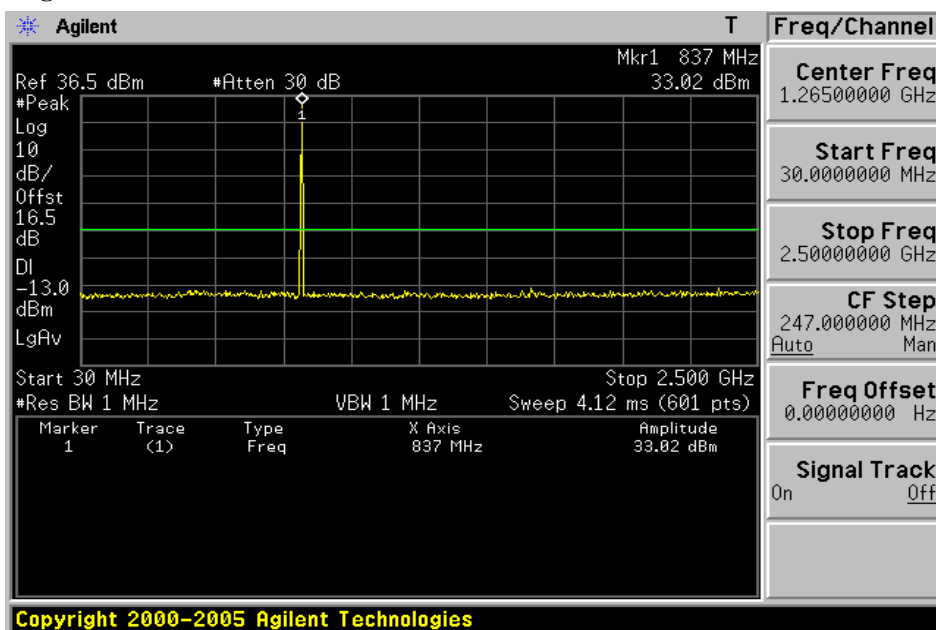
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Figure 9-2: Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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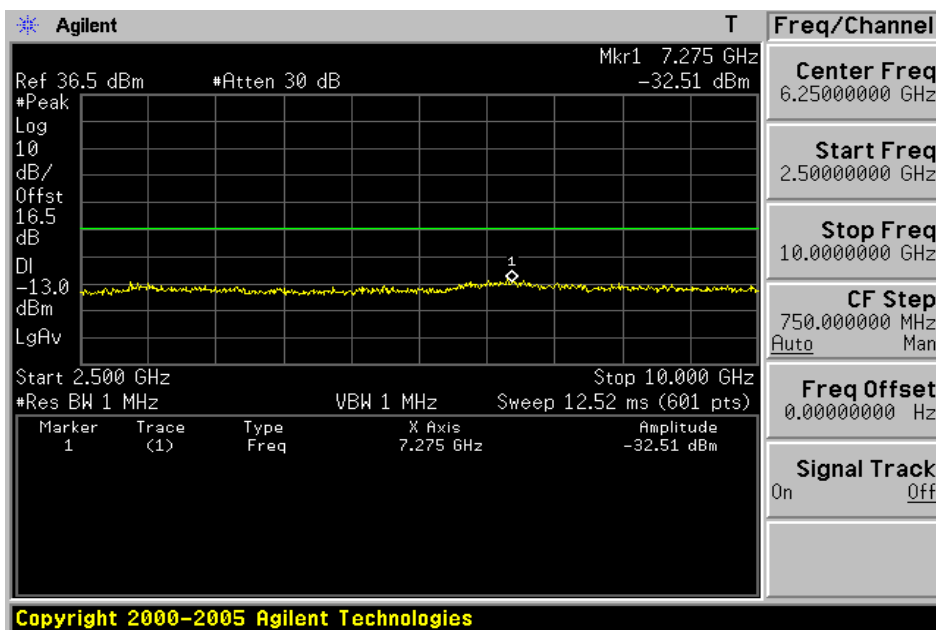
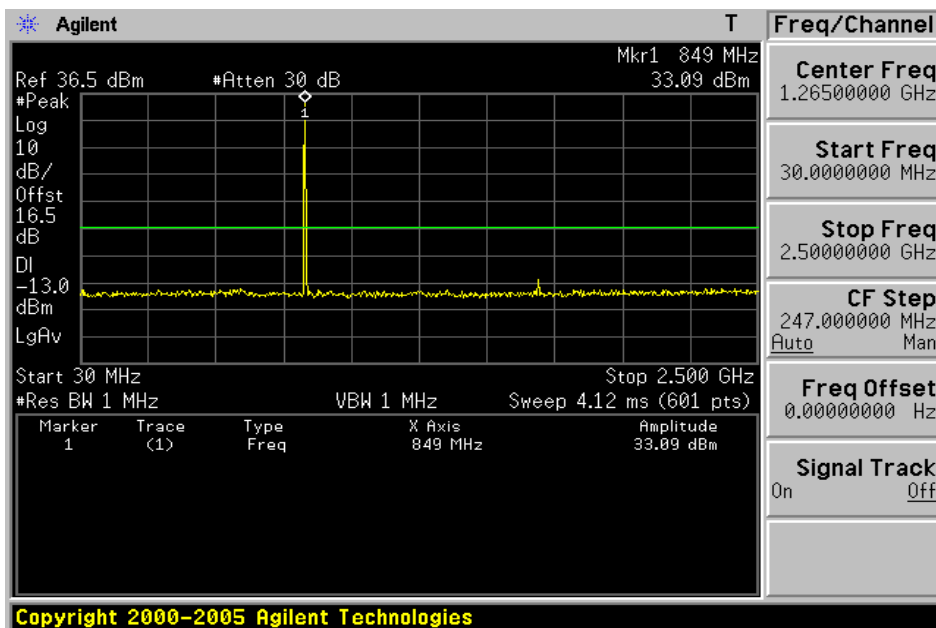
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Figure 9-3: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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Figure 9-4: Band edge emission at antenna terminals – GPRS 850 Channel Lowest

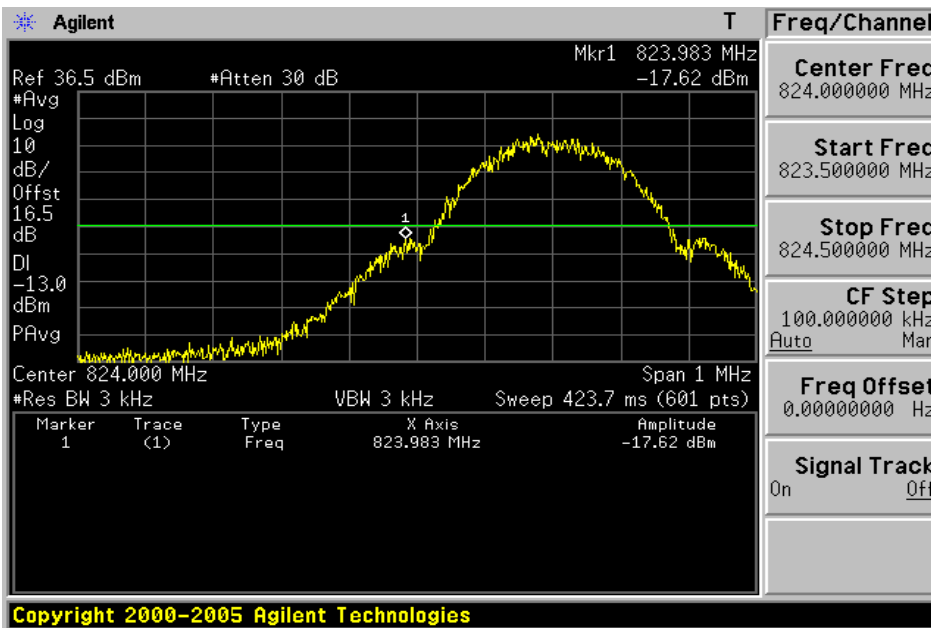
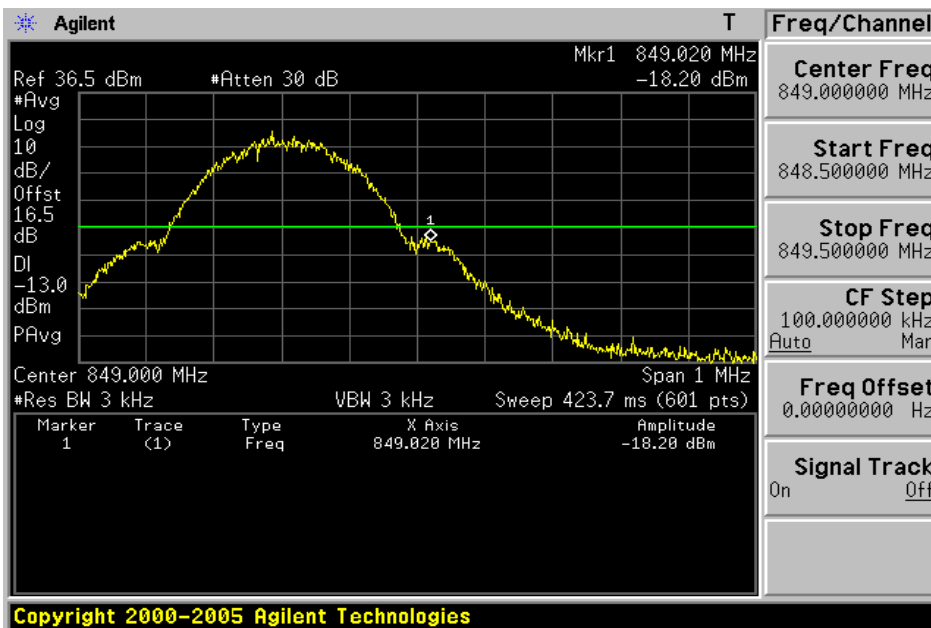


Figure 9-5: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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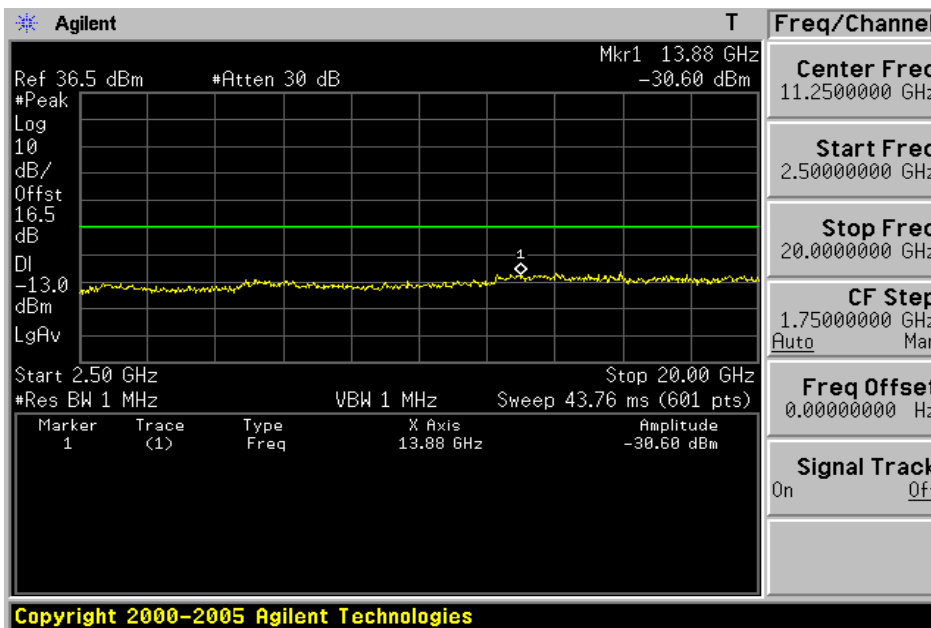
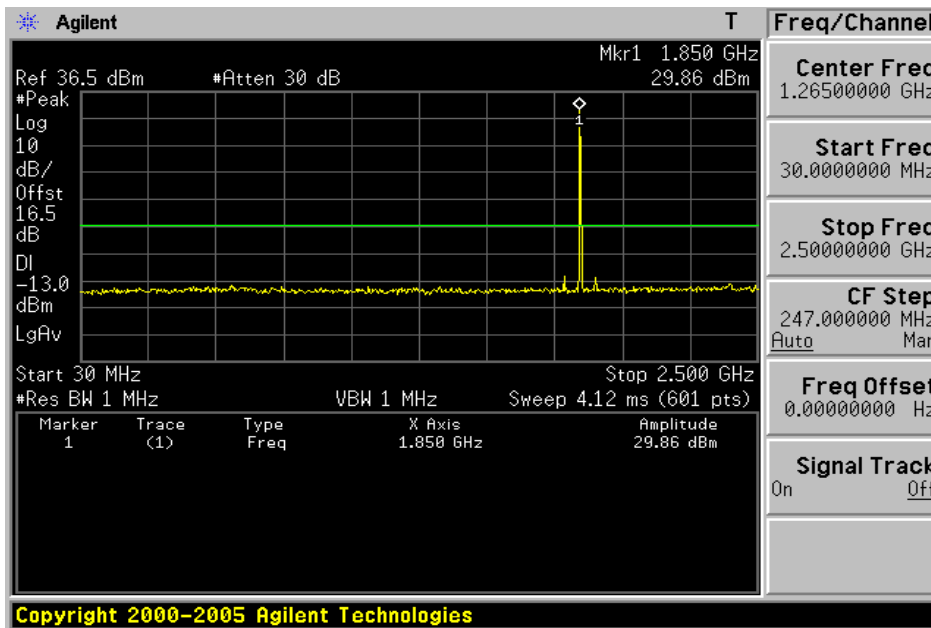
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Figure 9-6: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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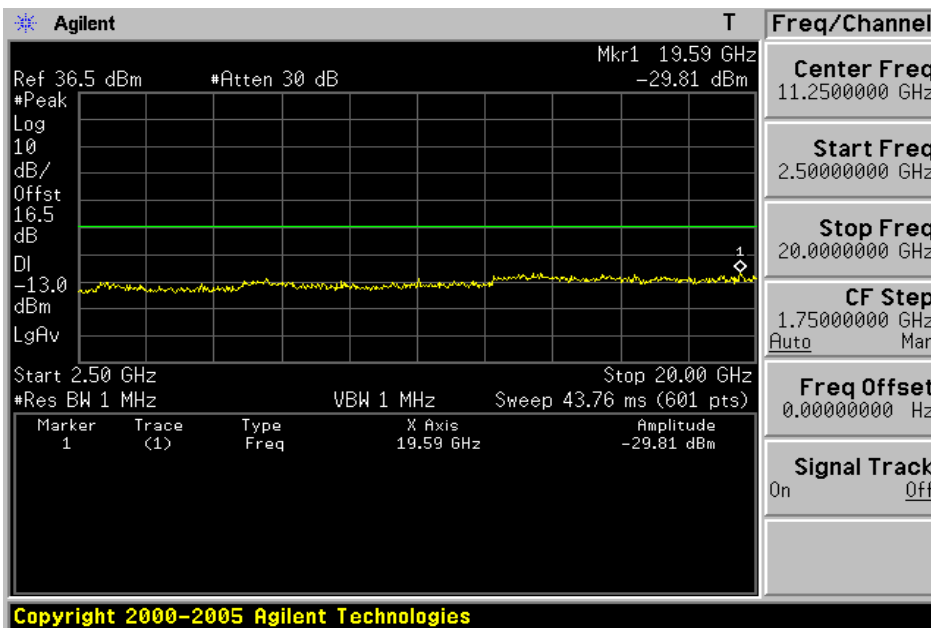
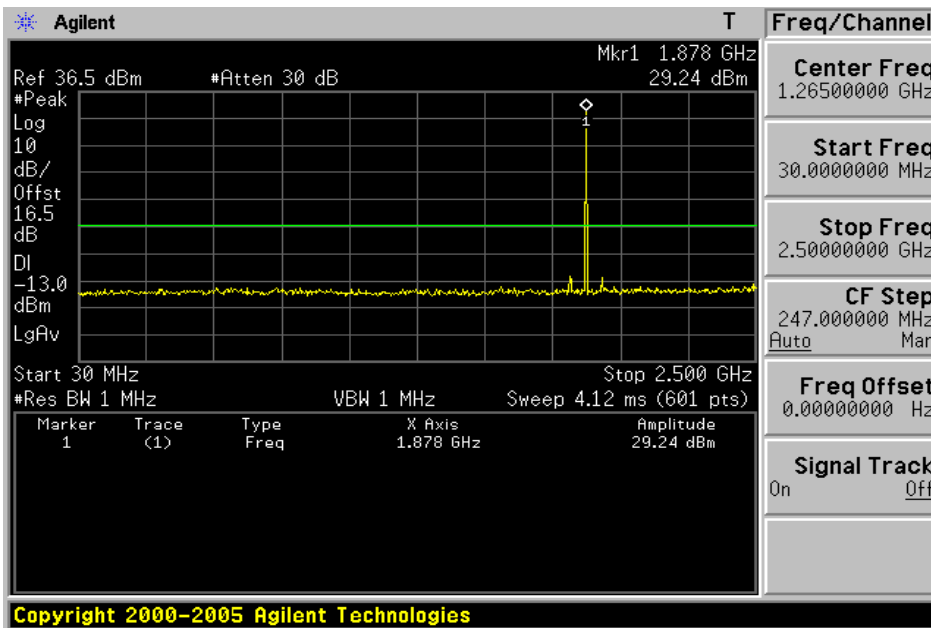
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Figure 9-7: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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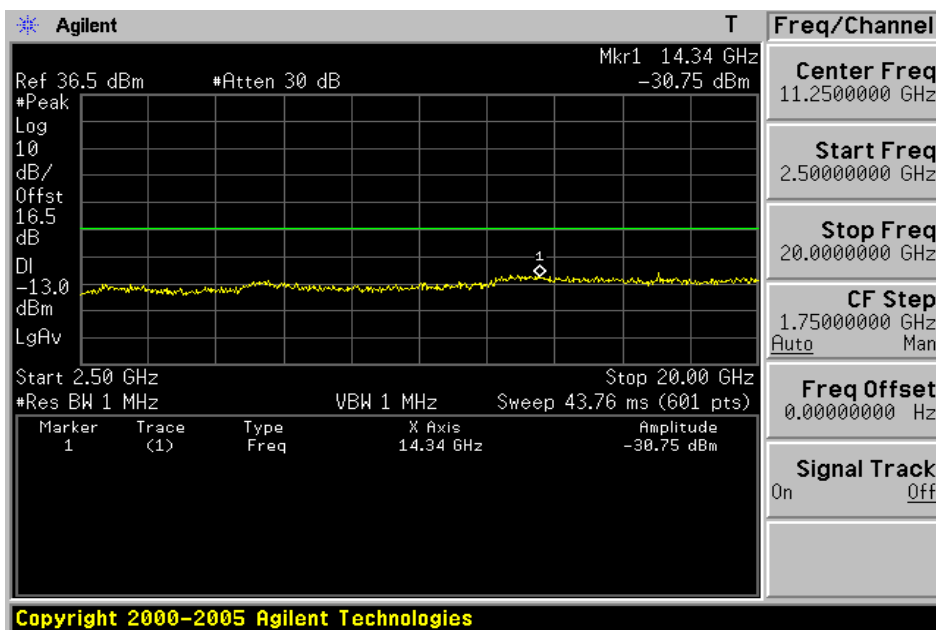
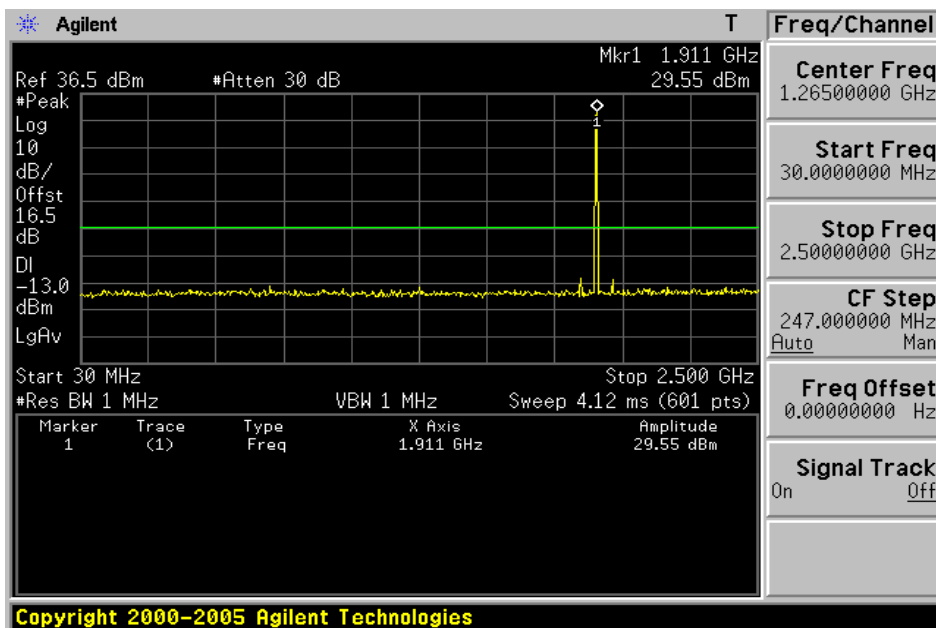
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Figure 9-8: Out of Band emission at antenna terminals – GPRS 1900Channel Highest



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Figure 9-9: Band edge emission at antenna terminals – GPRS 1900 Channel Lowest

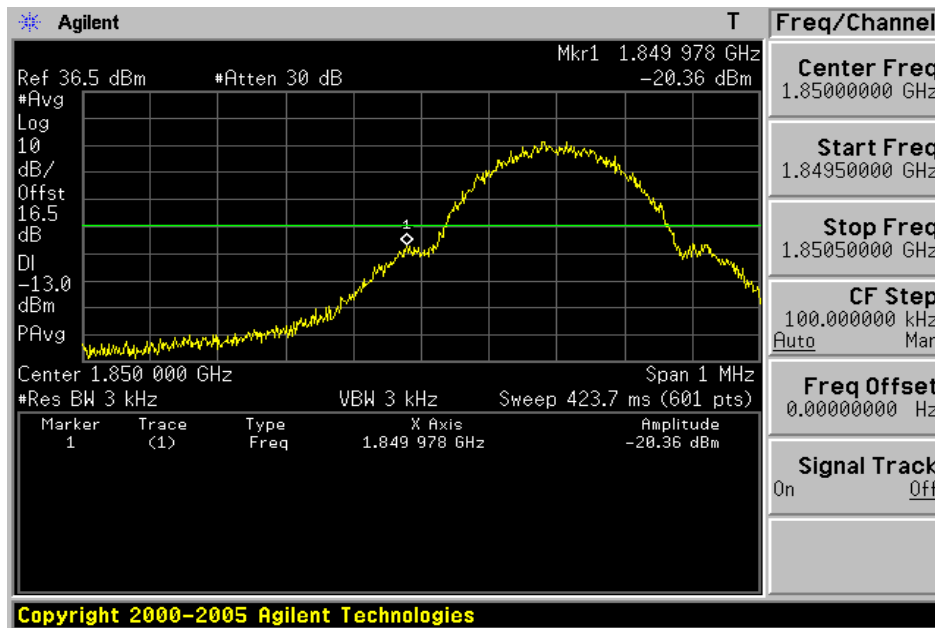
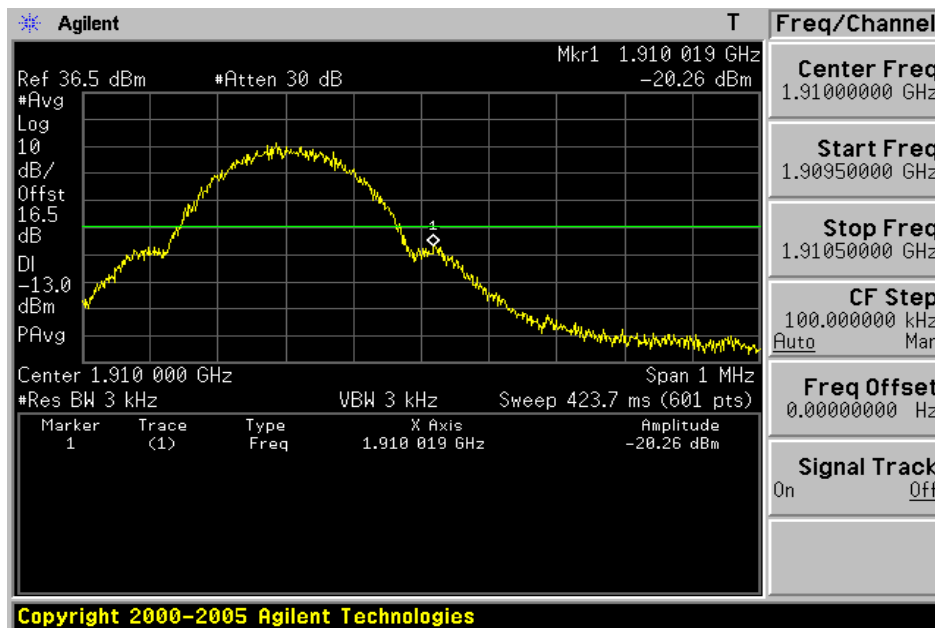


Figure 9-10: Band edge emission at antenna terminals – GPRS 1900Channel Highest



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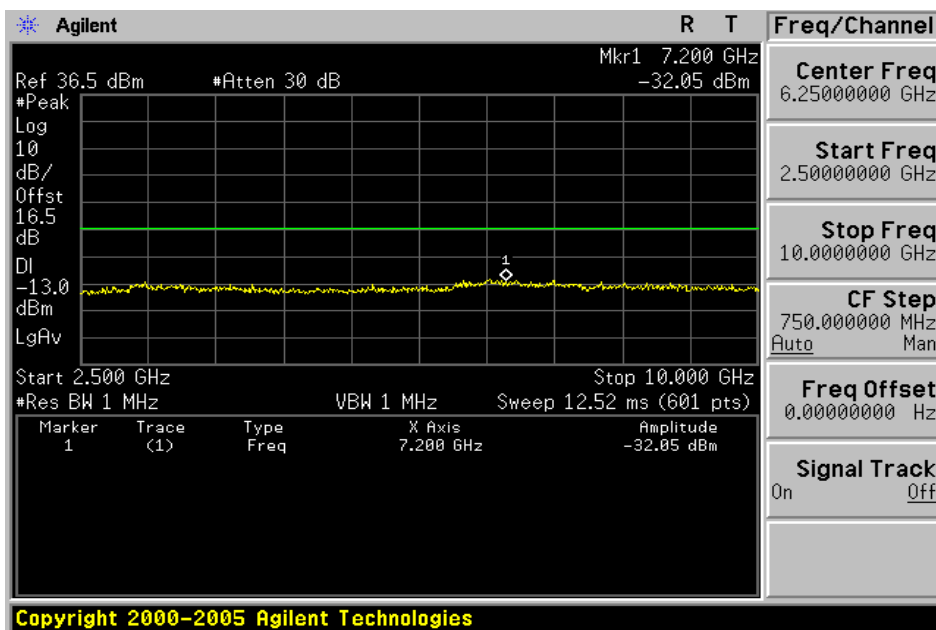
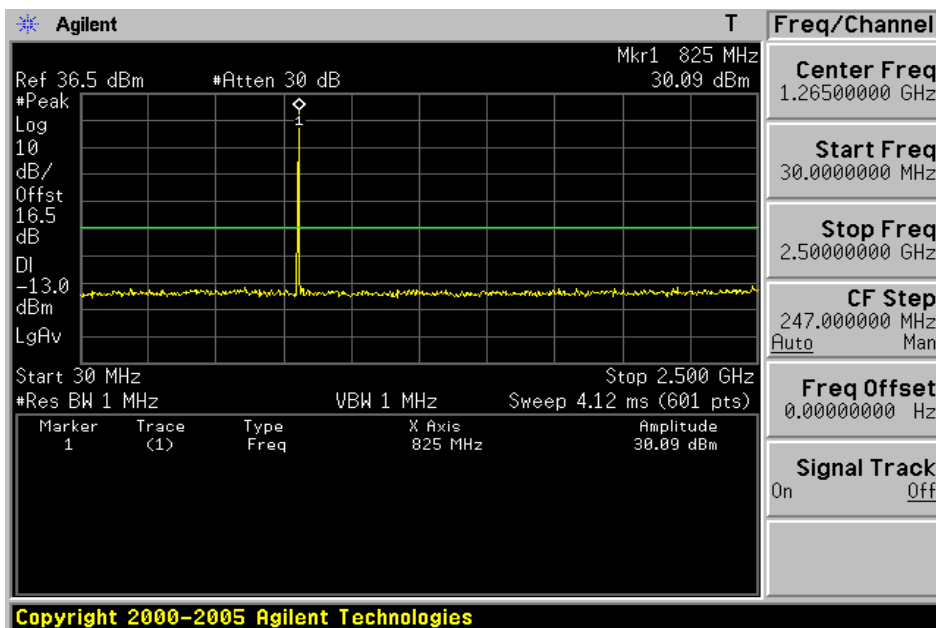
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Figure 9-11: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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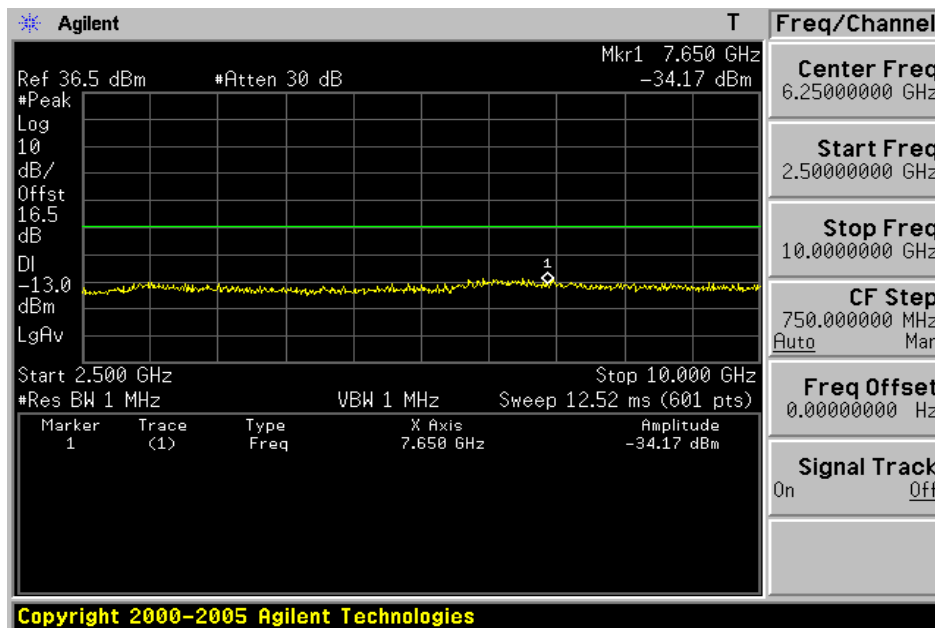
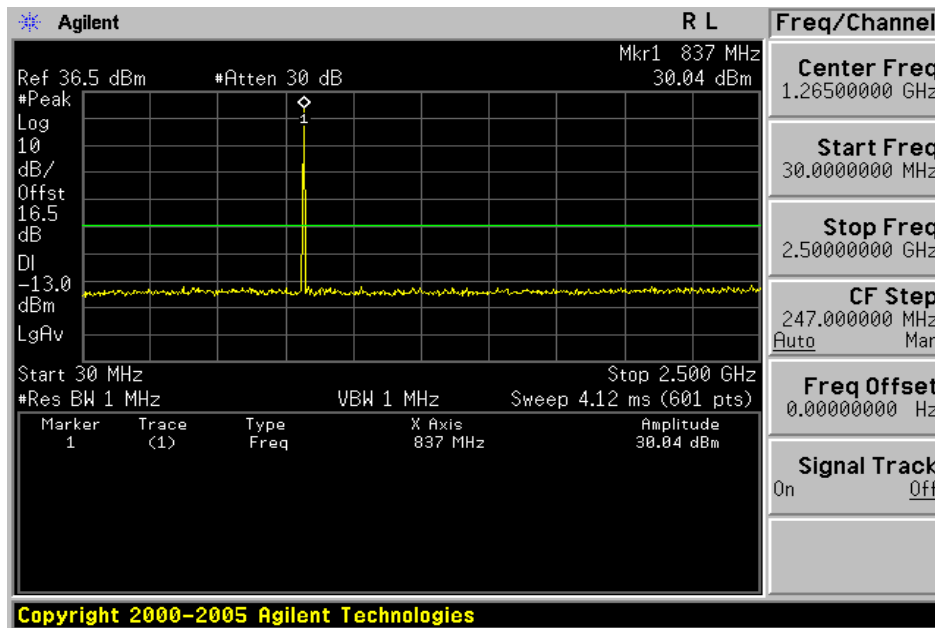
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Figure 9-12: Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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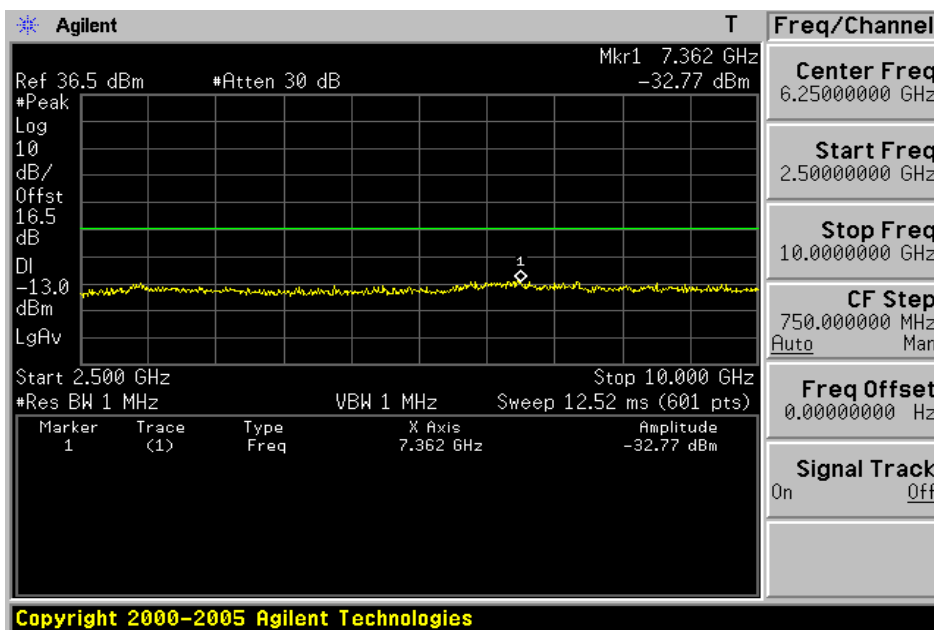
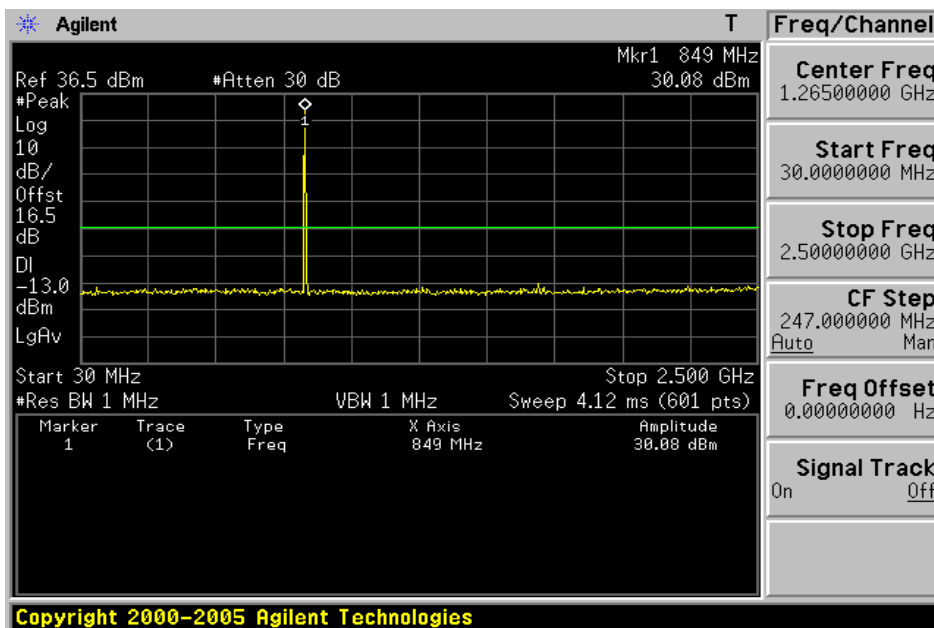
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Figure 9-13: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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Figure 9-14: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

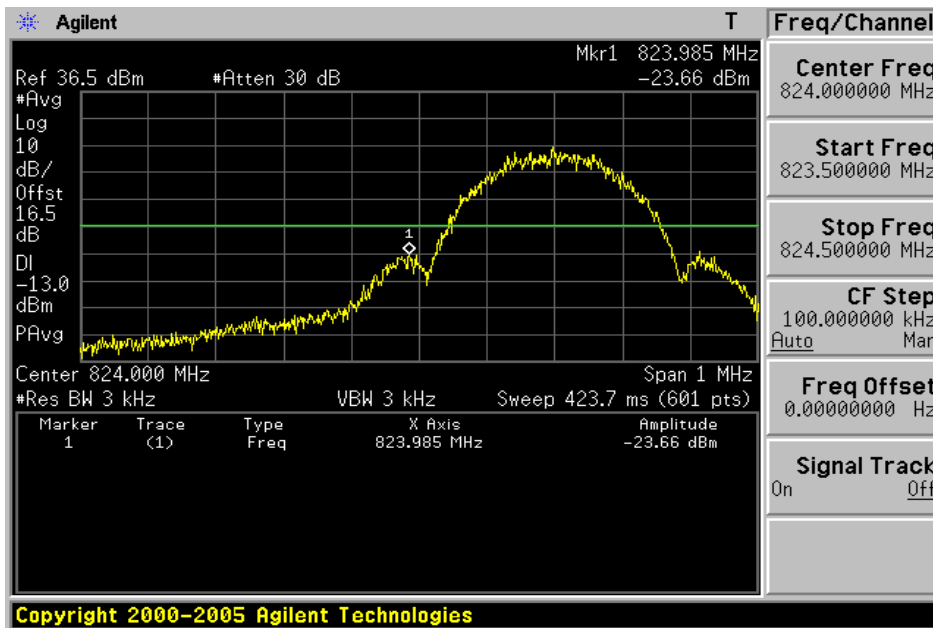
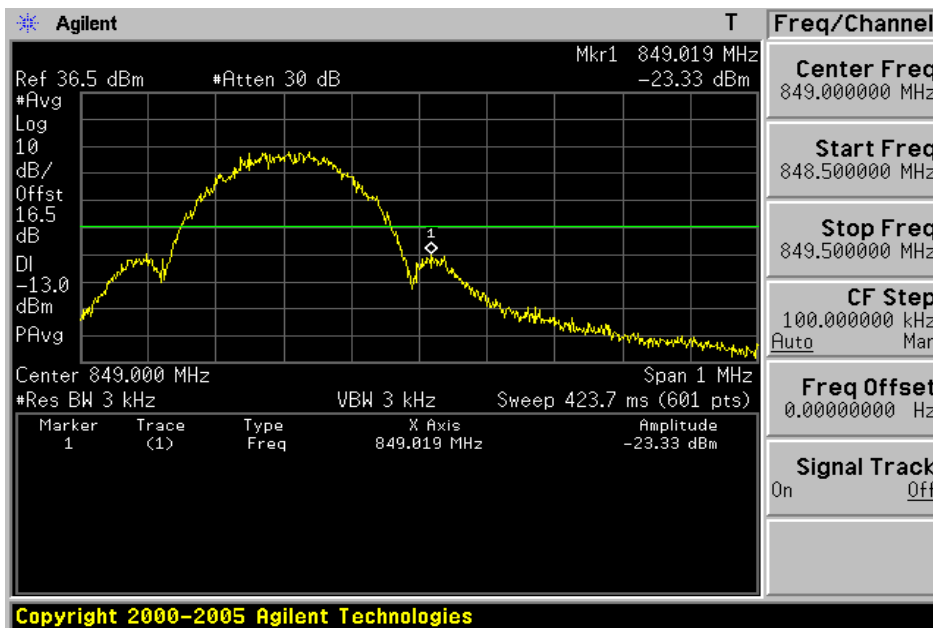


Figure 9-15: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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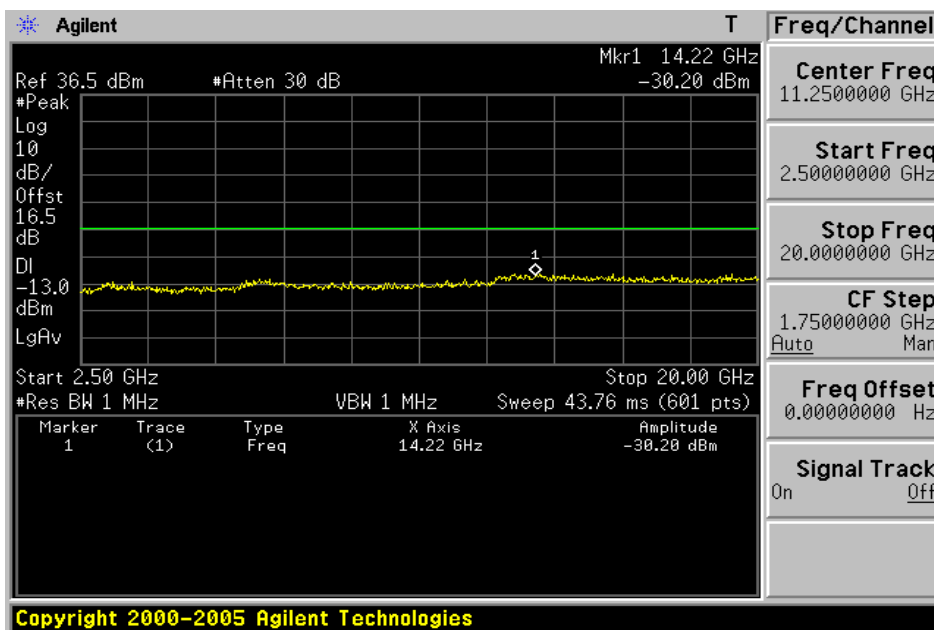
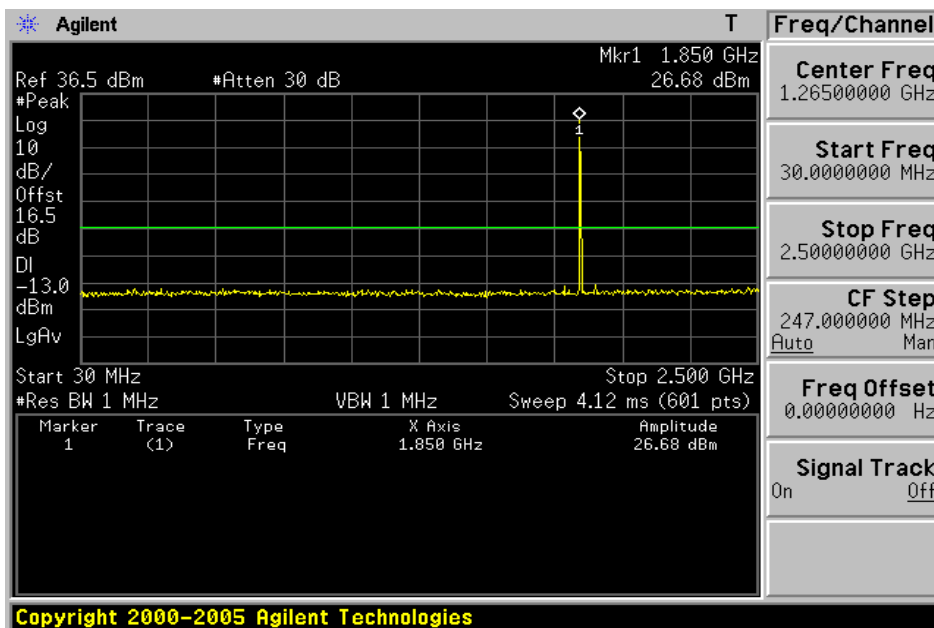
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Figure 9-16: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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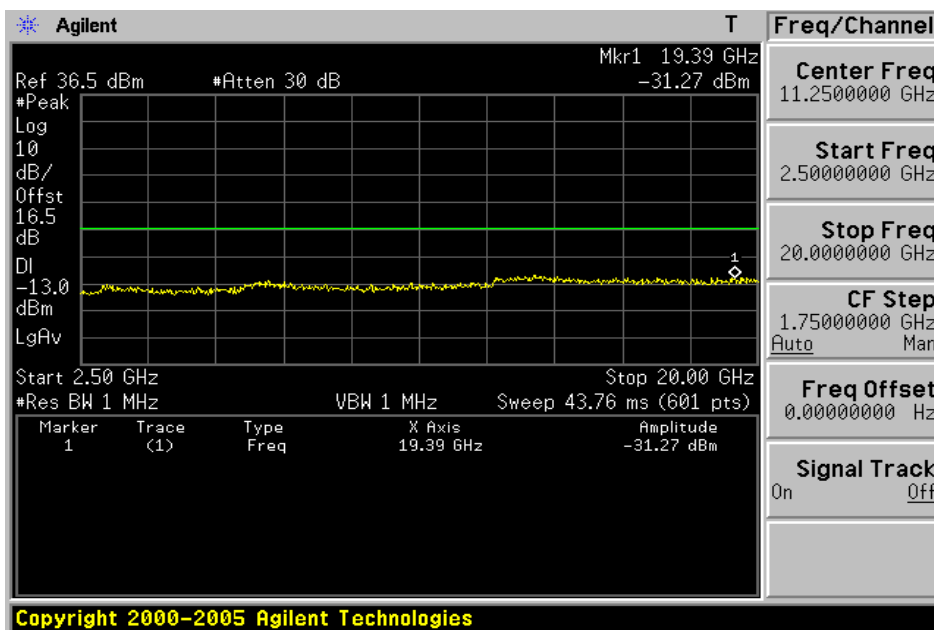
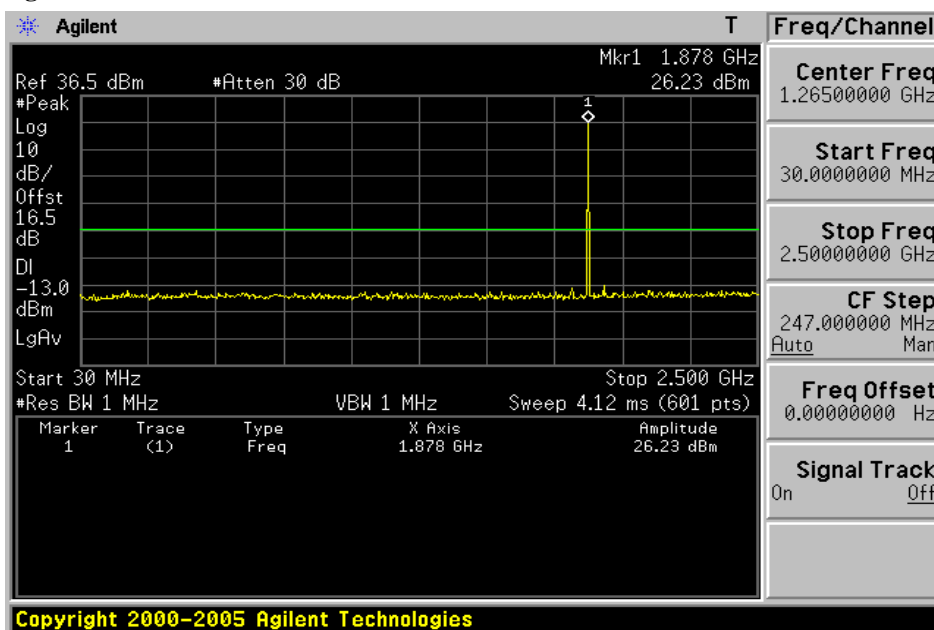
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Figure 9-17: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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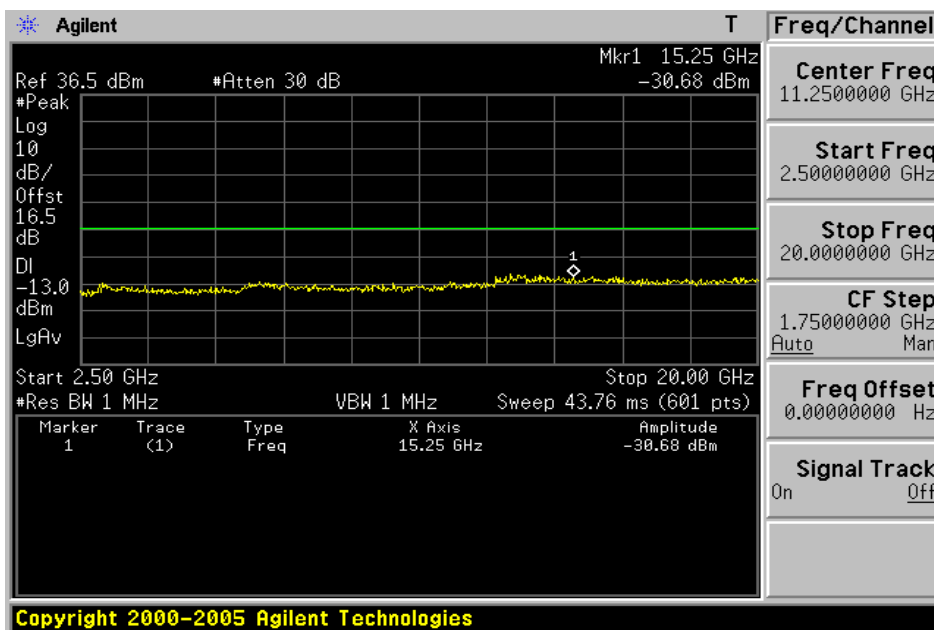
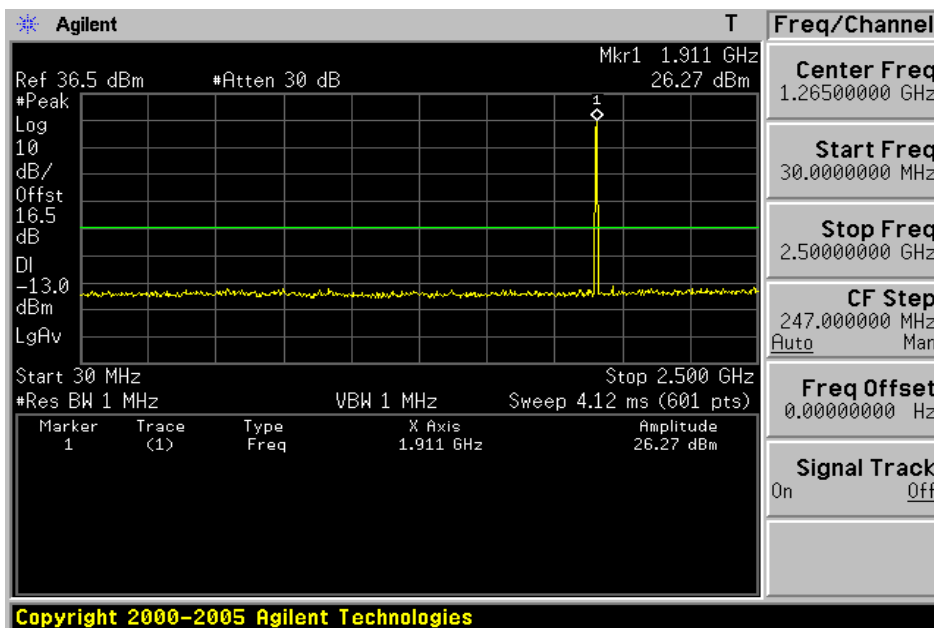
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Figure 9-18: Out of Band emission at antenna terminals – EDGE 1900Channel Highest



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Figure 9-19: Band edge emission at antenna terminals – EDGE 1900 Channel Lowest

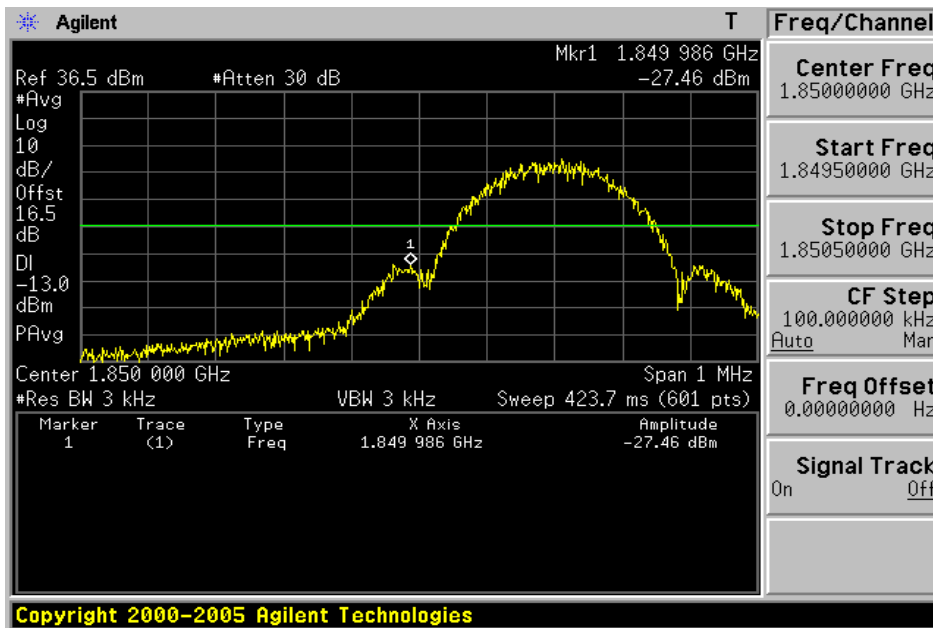
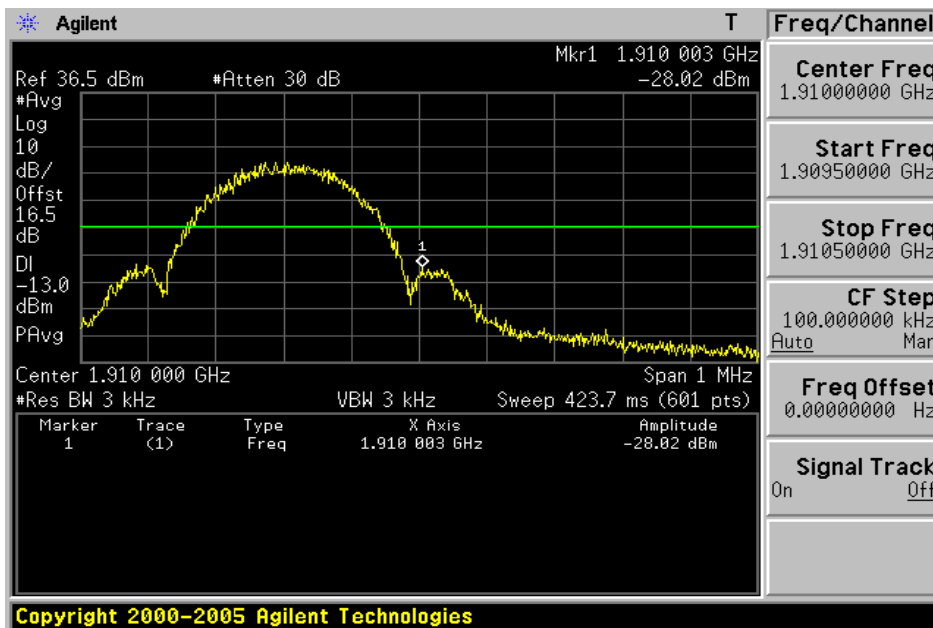


Figure 9-20: Band edge emission at antenna terminals – EDGE 1900Channel Highest



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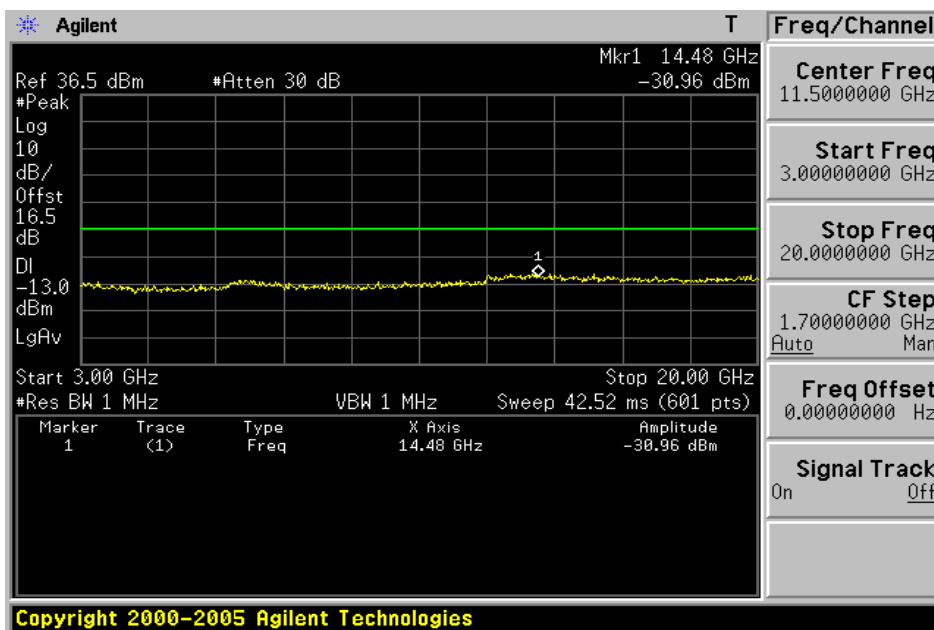
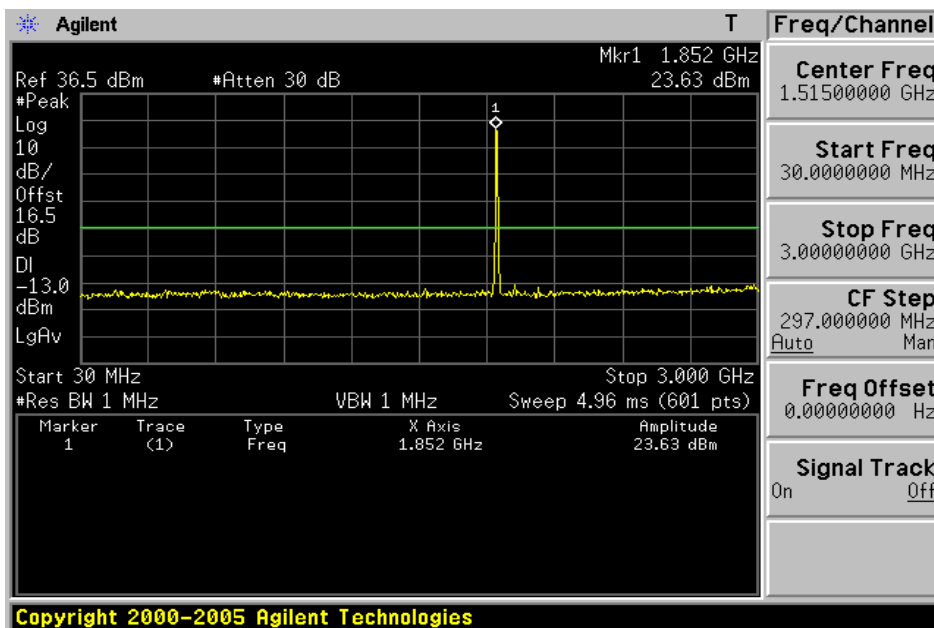
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Figure 9-21: Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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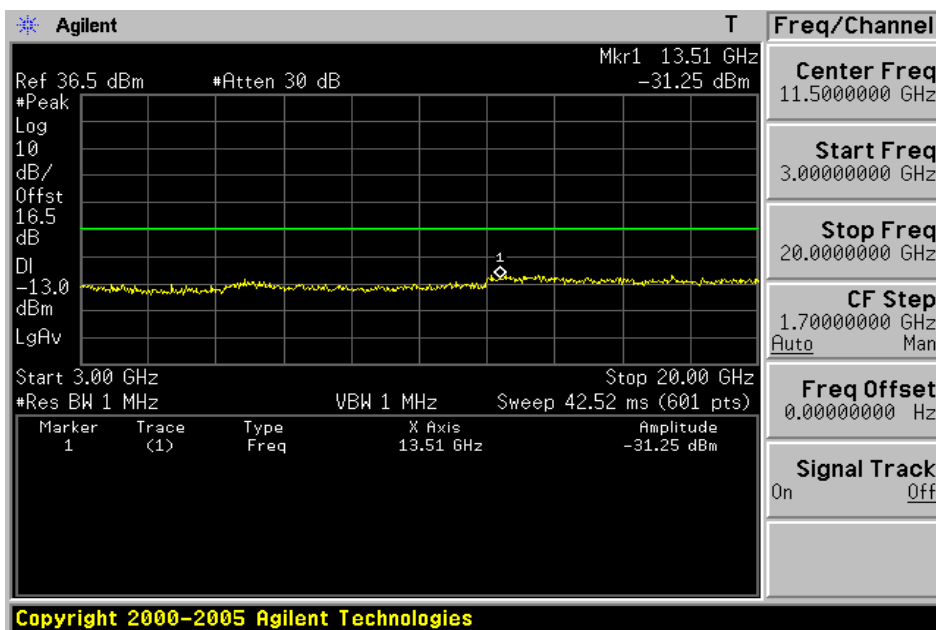
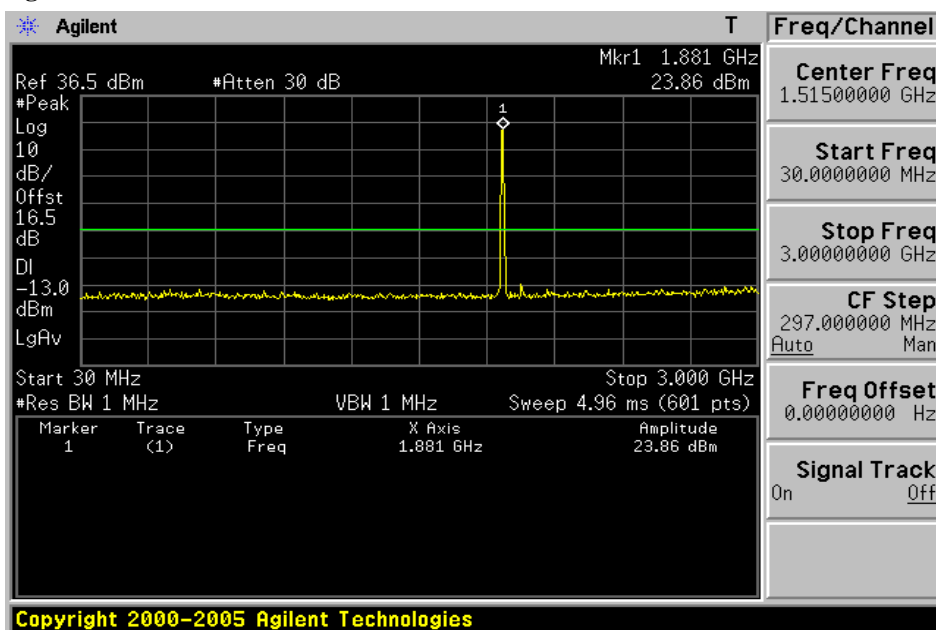
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Figure 9-22: Out of Band emission at antenna terminals – WCDMA II Channel Mid



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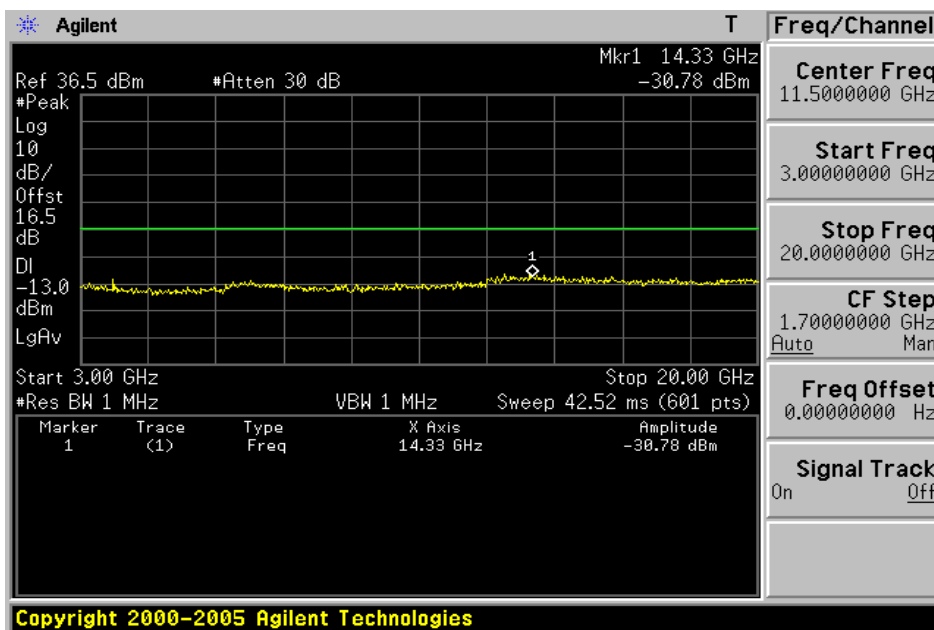
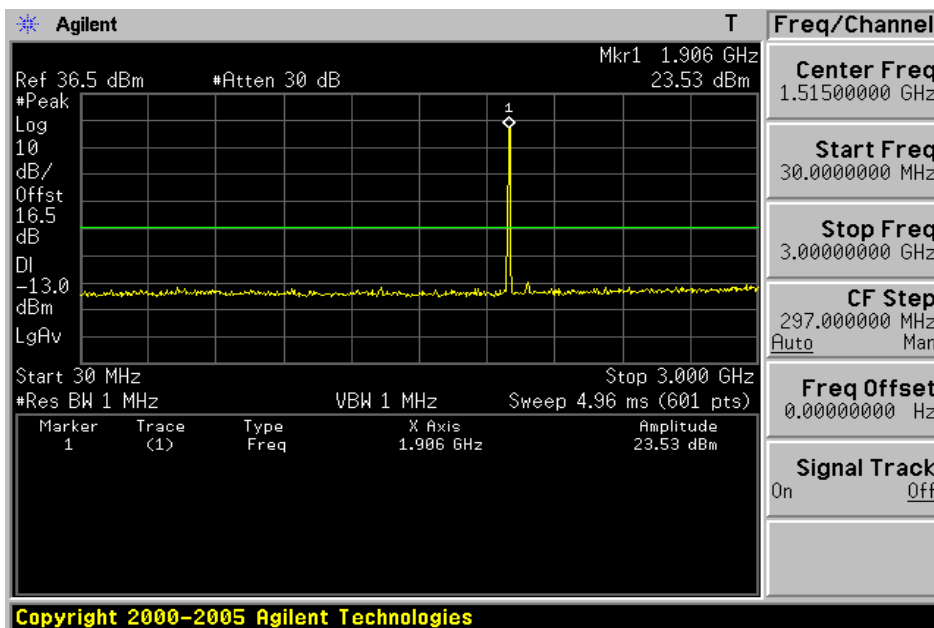
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Figure 9-23: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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Figure 9-24: Bad edge emission at antenna terminals – WCDMA II Channel Lowest

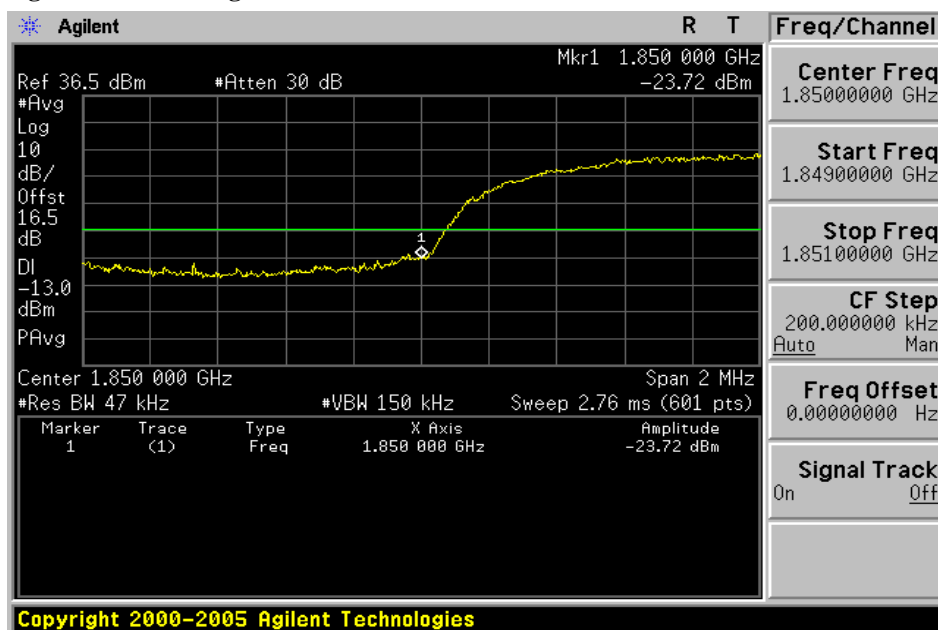


Figure 9-25: Band edge emission at antenna terminals – WCDMA II Channel Highest



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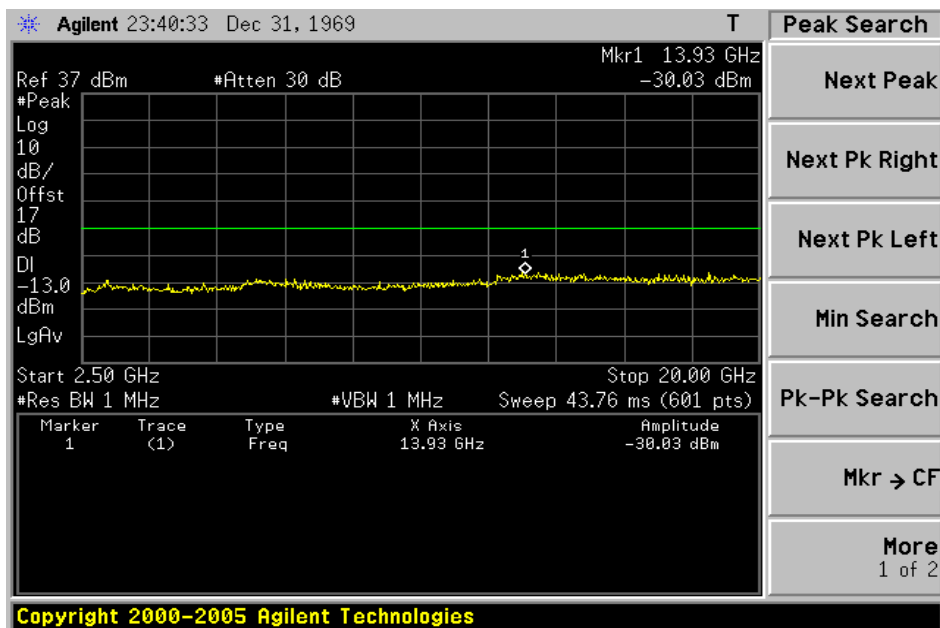
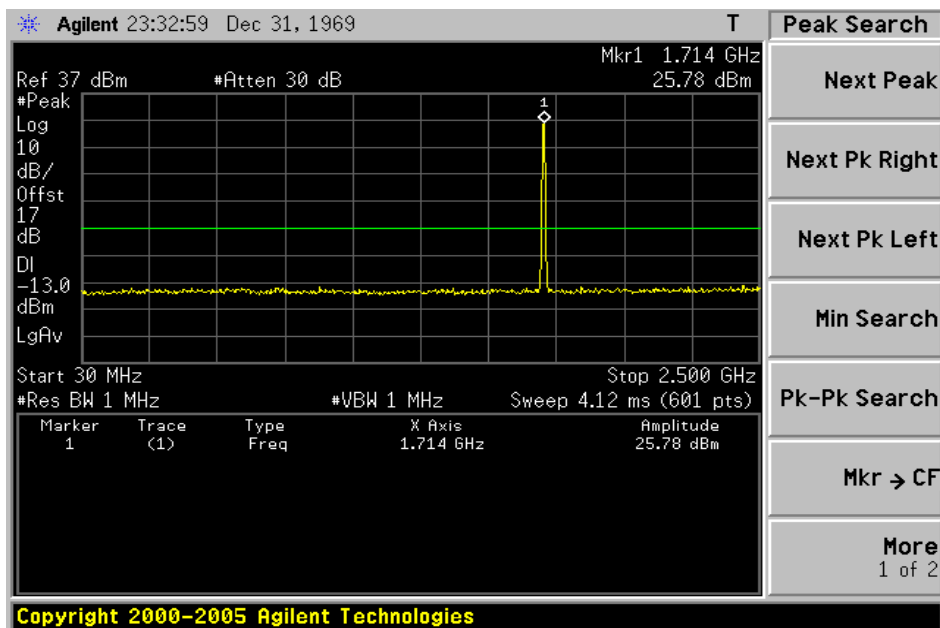
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Figure 9-26: Out of Band emission at antenna terminals – WCDMA IV Channel Lowest



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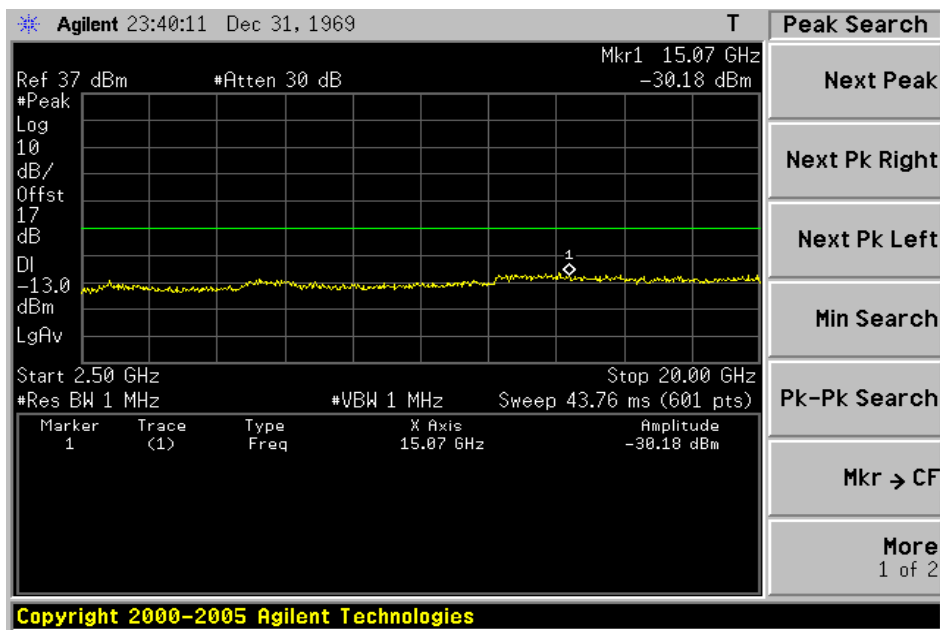
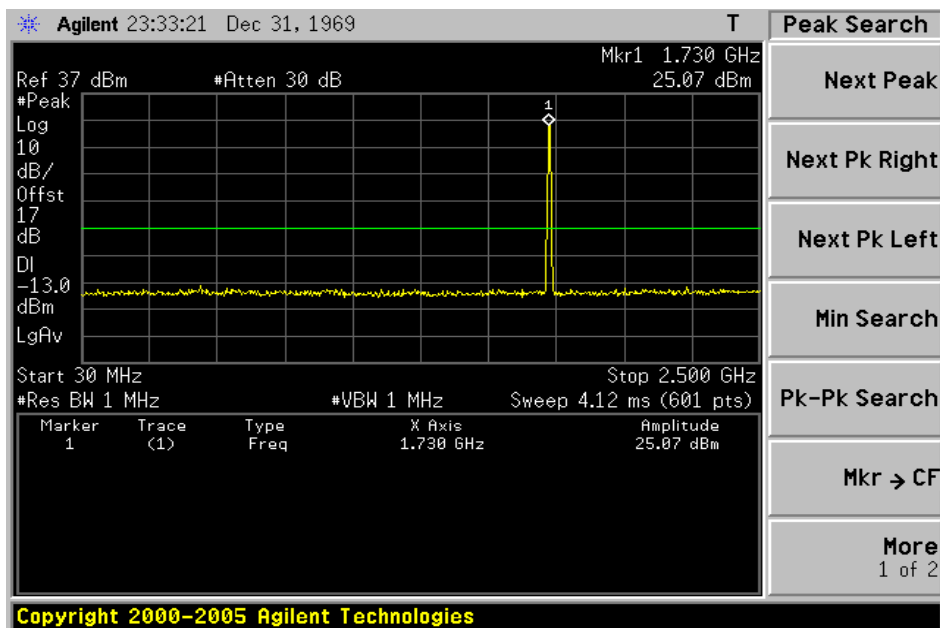
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Figure 9-27: Out of Band emission at antenna terminals – WCDMA IV Channel Mid



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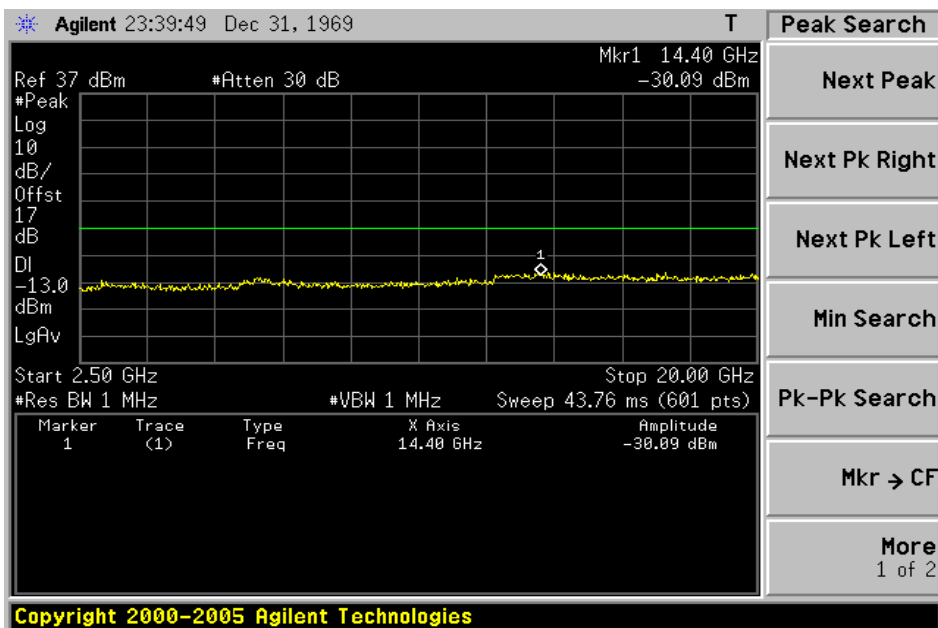
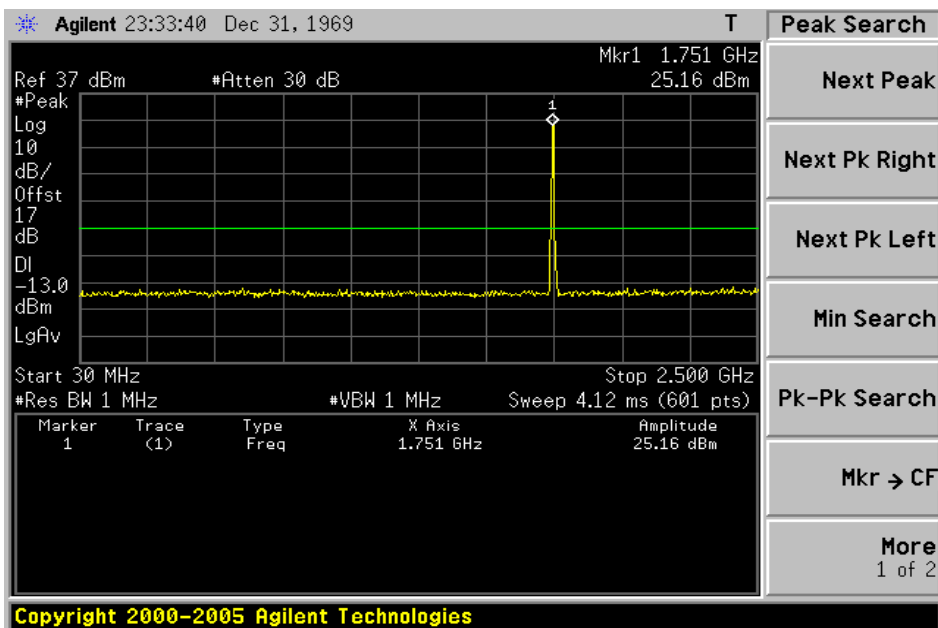
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Figure 9-28: Out of Band emission at antenna terminals – WCDMA IV Channel Highest



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Figure 9-29: Bad edge emission at antenna terminals – WCDMA IV Channel Lowest

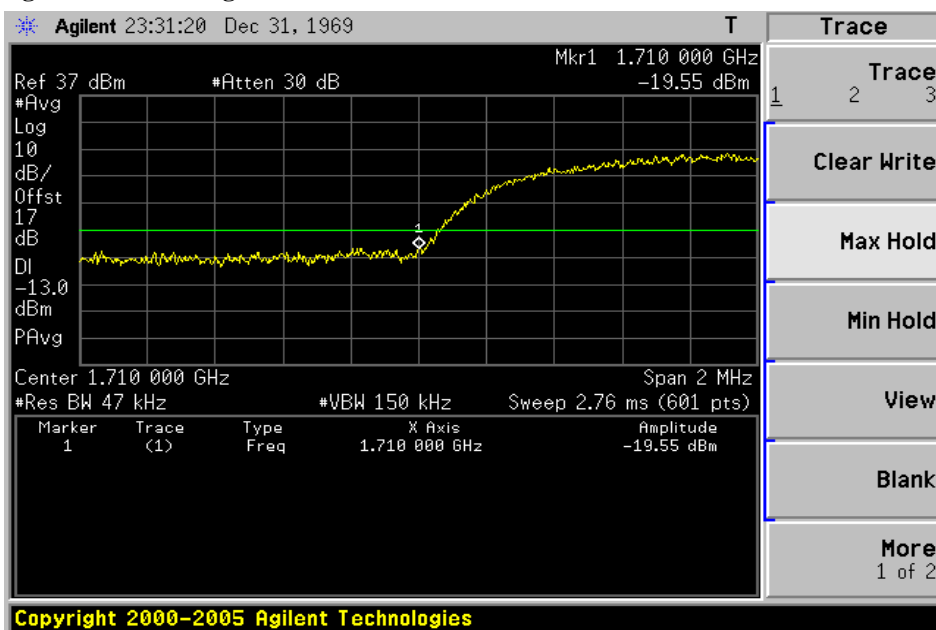


Figure 9-30: Band edge emission at antenna terminals – WCDMA IV Channel Highest



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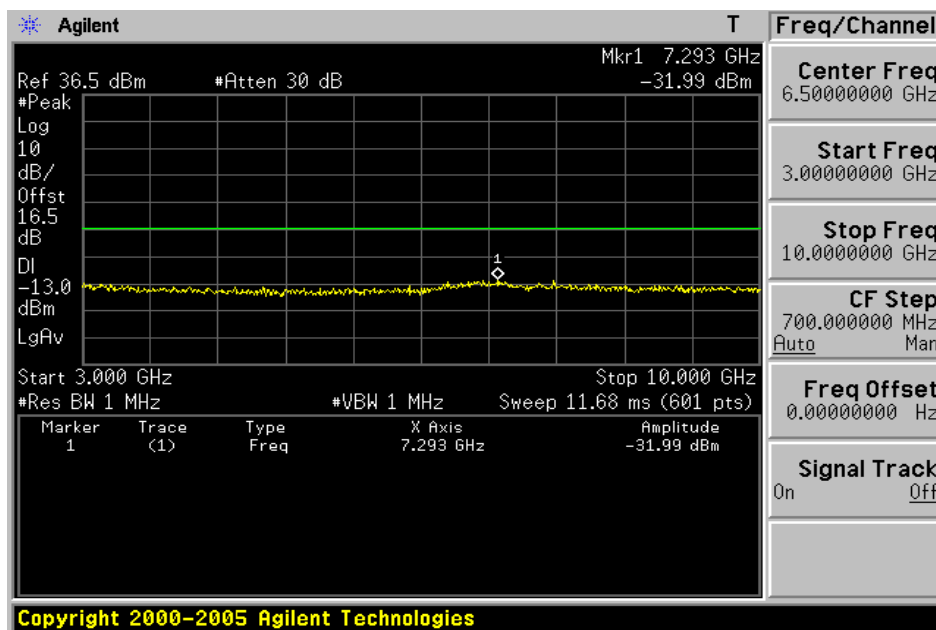
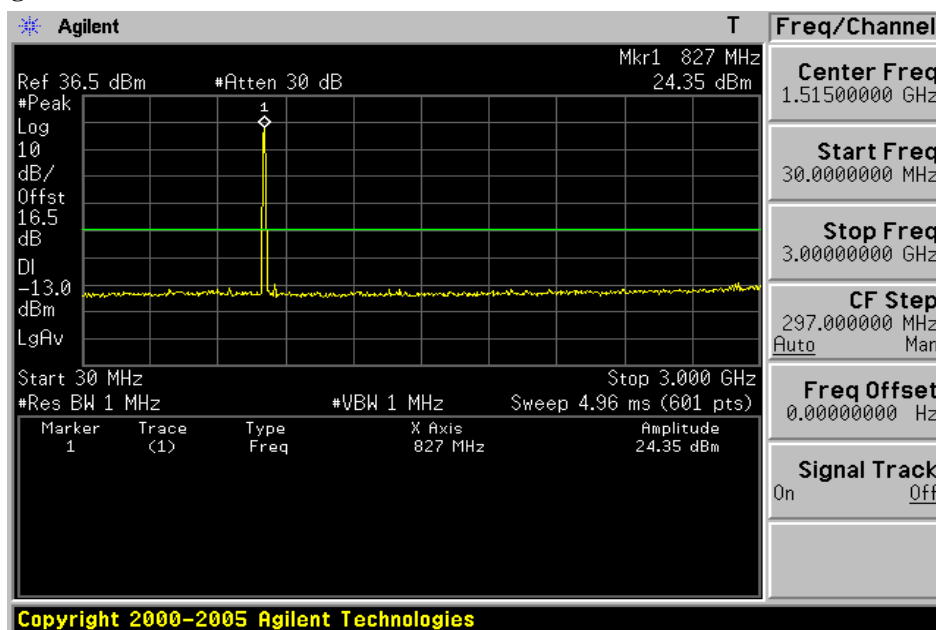
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Figure 9-31: Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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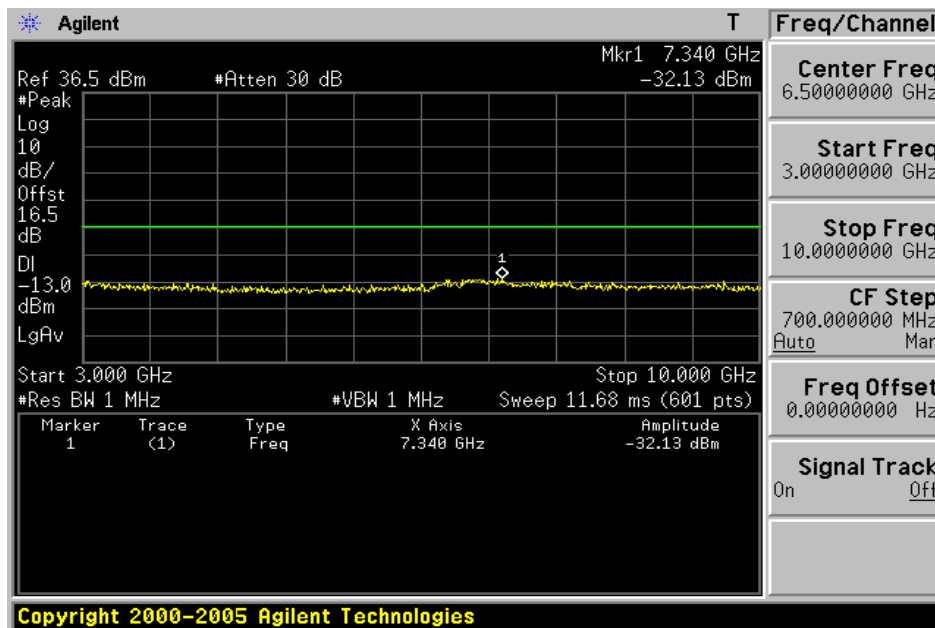
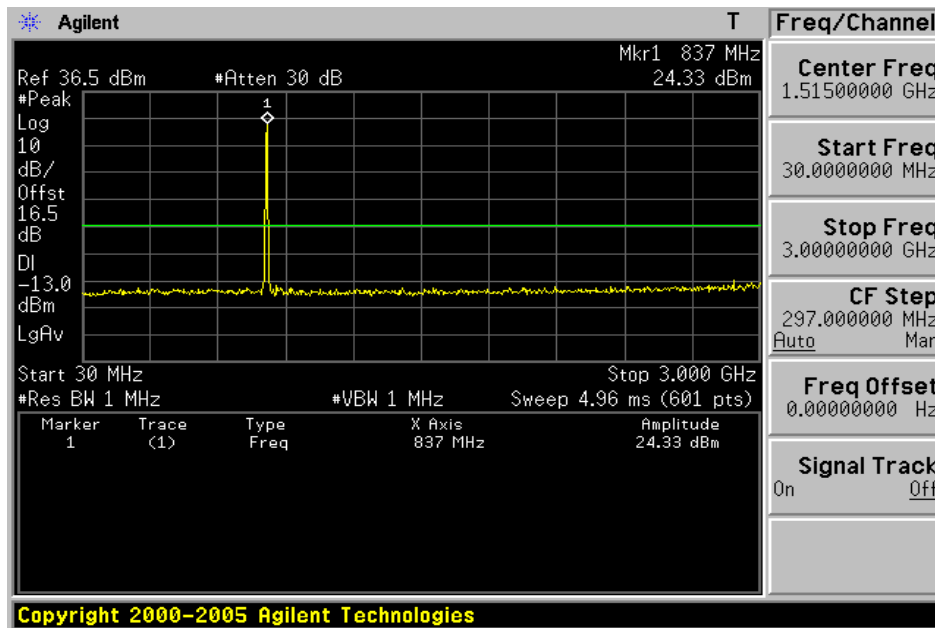
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Figure 9-32: Out of Band emission at antenna terminals – WCDMA V Channel Mid



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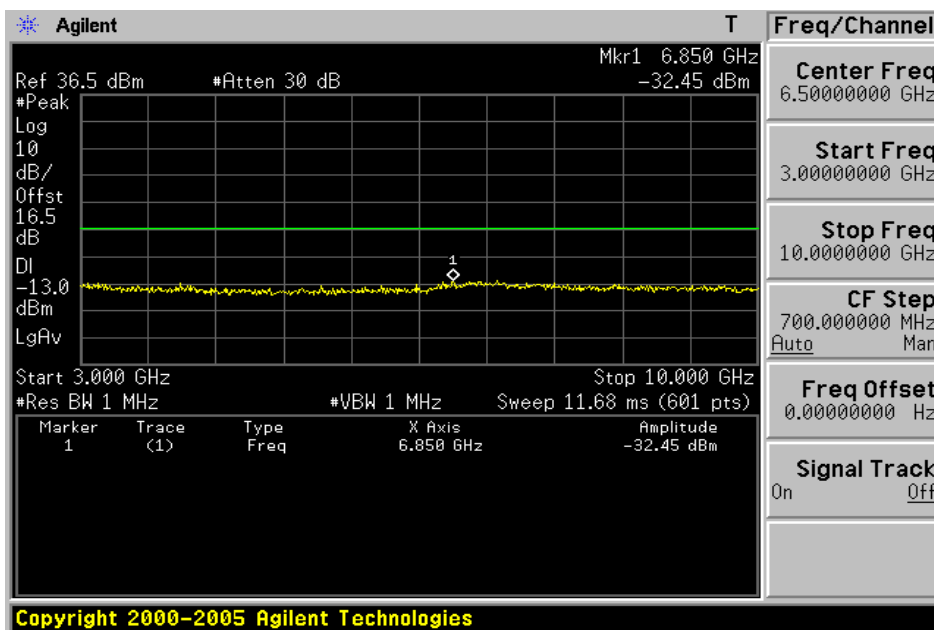
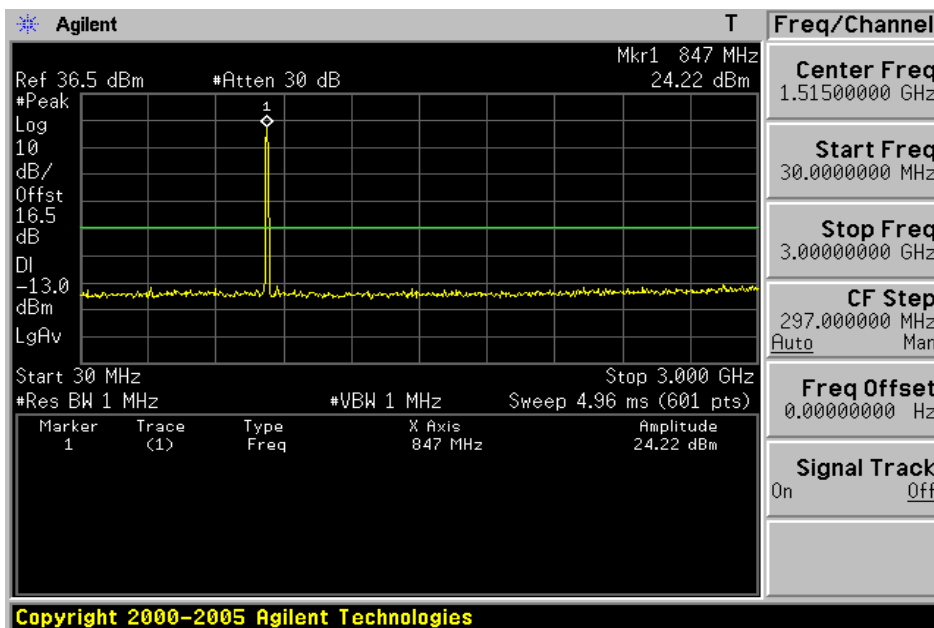
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Figure 9-33: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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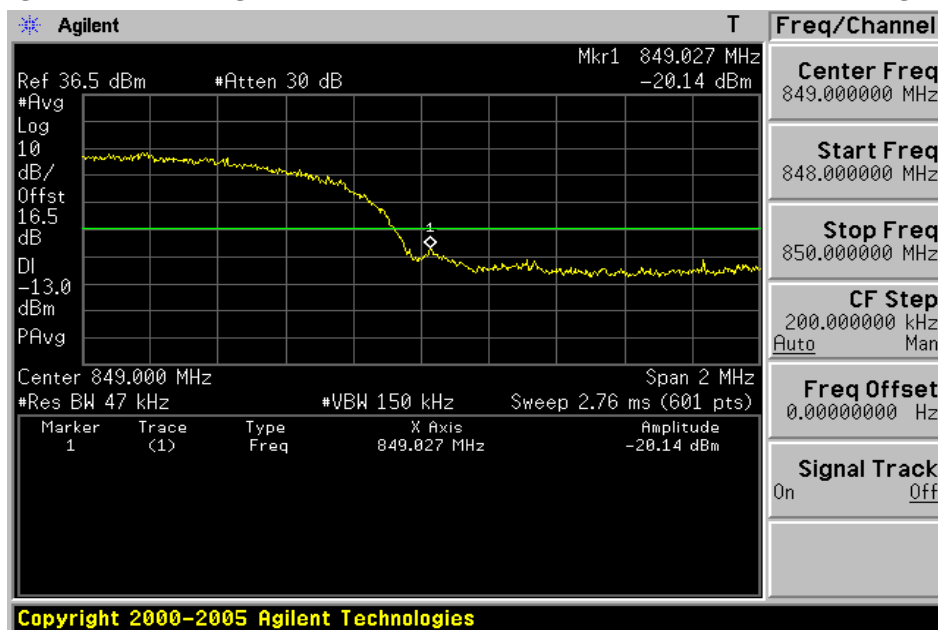
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Figure 9-34: Bad edge emission at antenna terminals – WCDMA V Channel Lowest



Figure 9-35: Band edge emission at antenna terminals – WCDMA V Channel Highest



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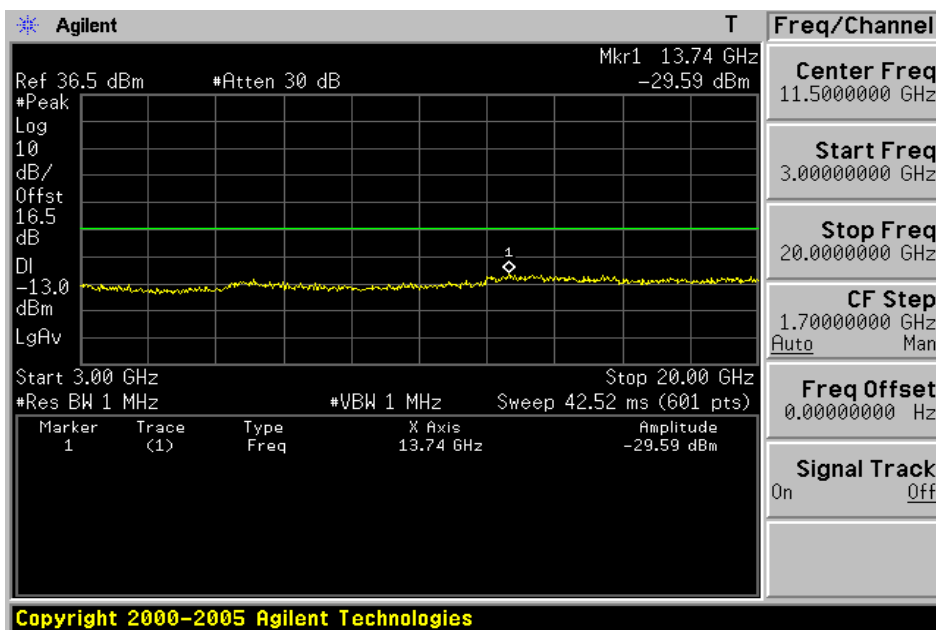
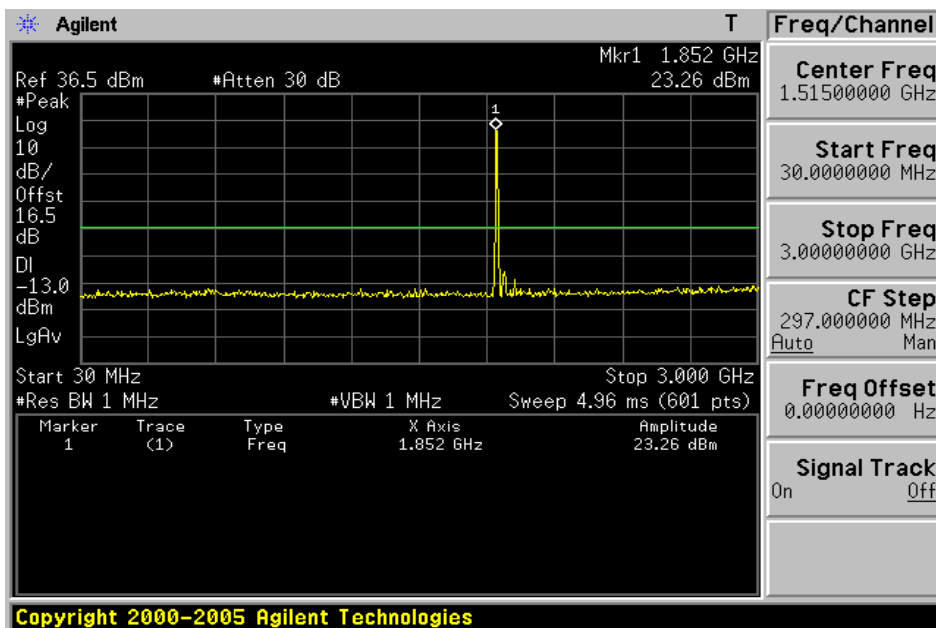
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Figure 9-36: Out of Band emission at antenna terminals – HSUPA II Channel Lowest



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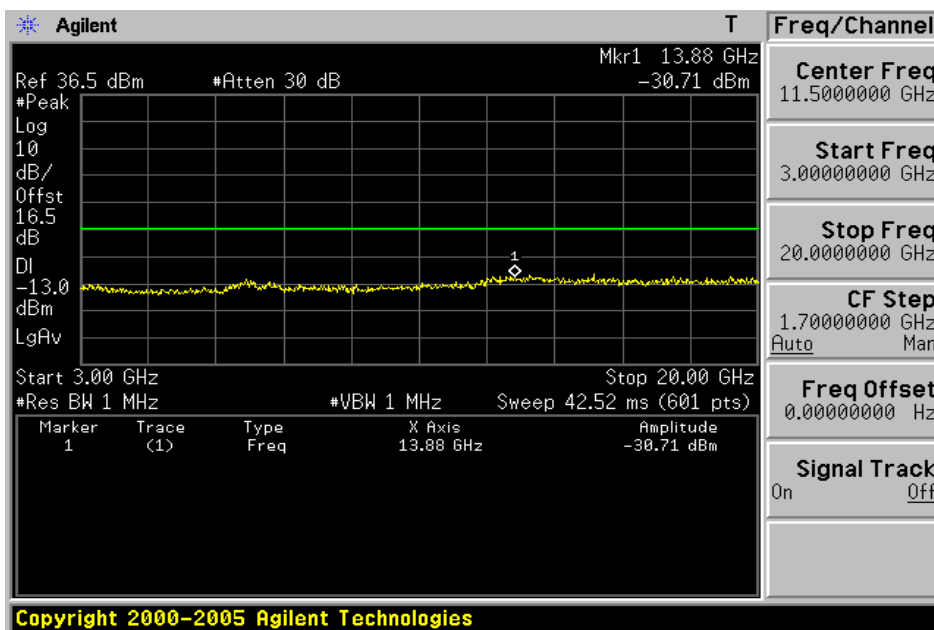
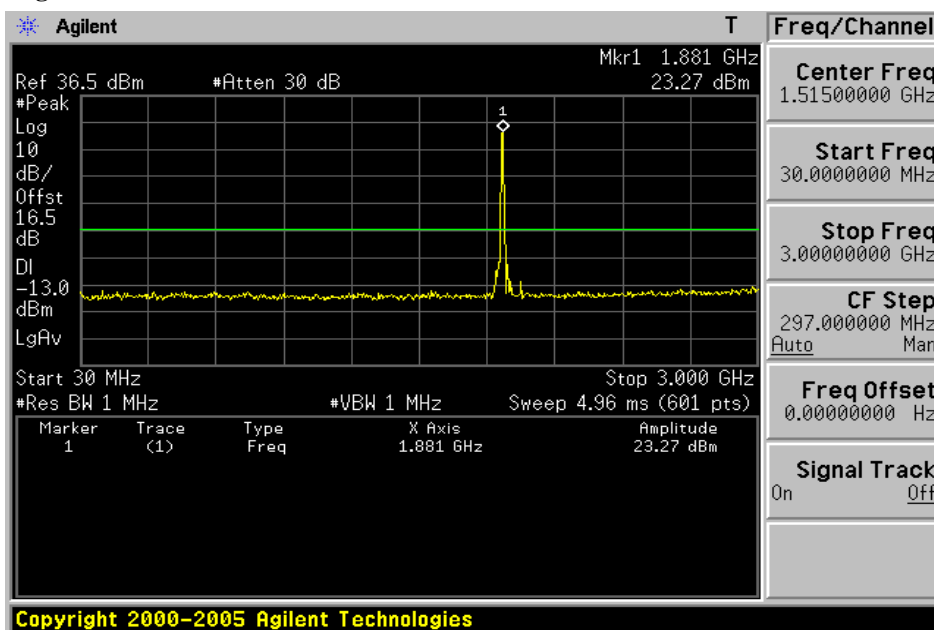
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Figure 9-37: Out of Band emission at antenna terminals – HSUPA II Channel Mid



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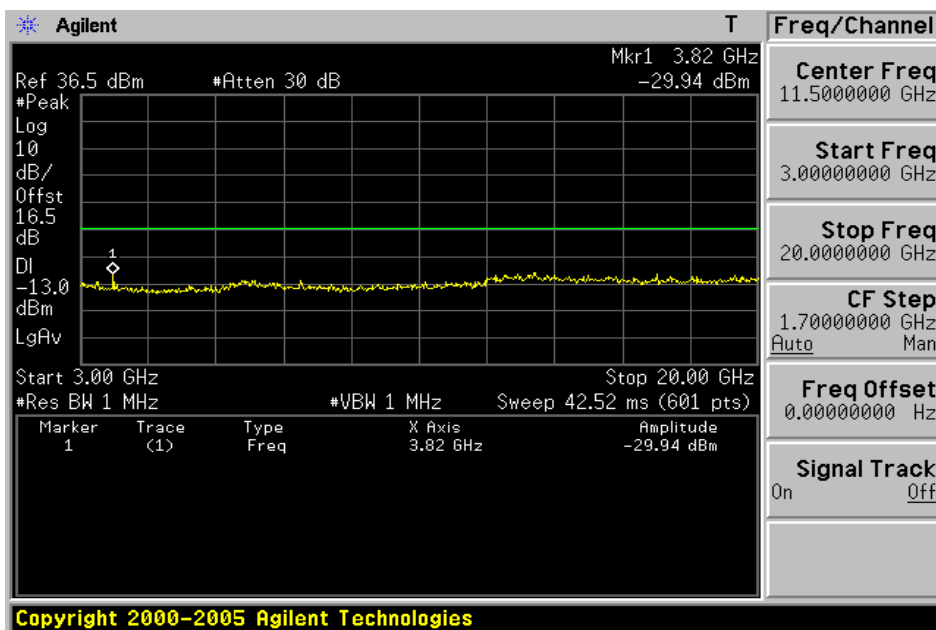
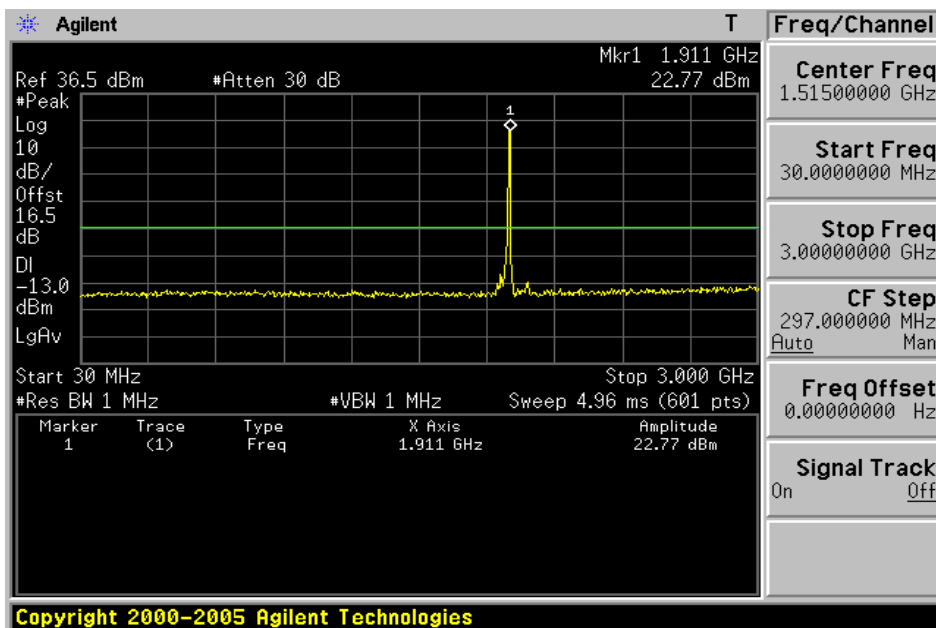
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Figure 9-38: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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Figure 9-39: Bad edge emission at antenna terminals – HSUPA II Channel Lowest

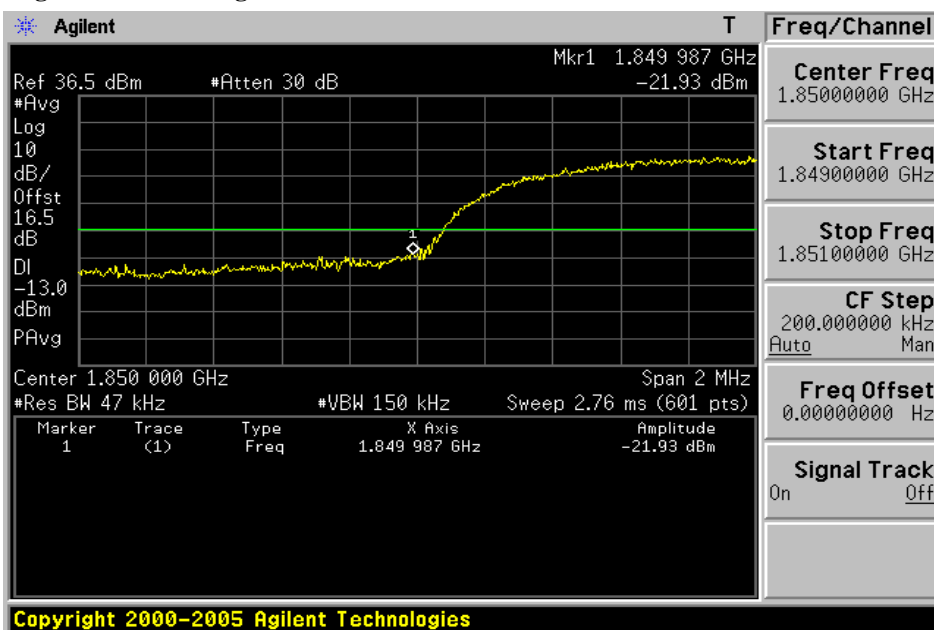
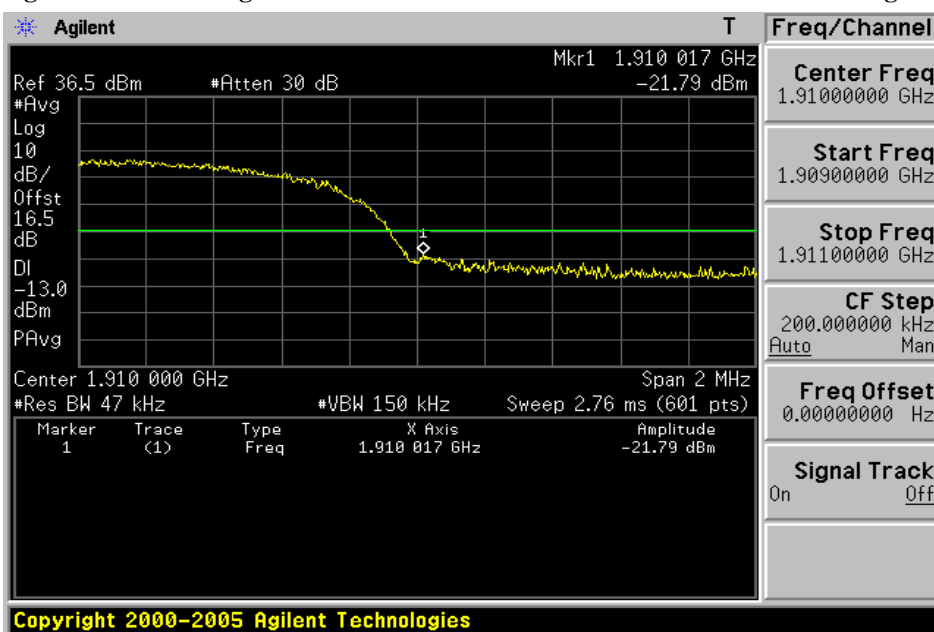


Figure 9-40: Band edge emission at antenna terminals – HSUPA II Channel Highest



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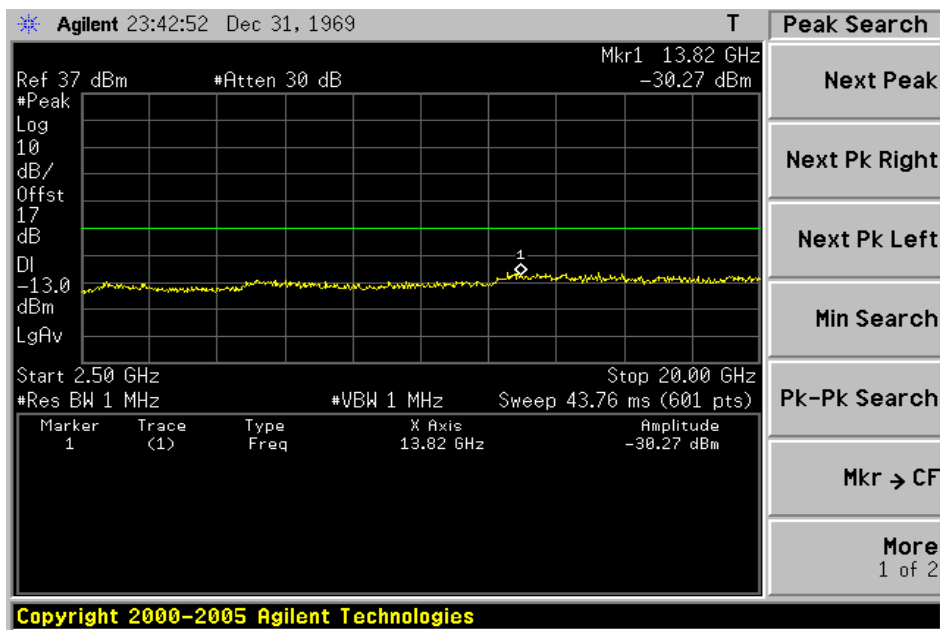
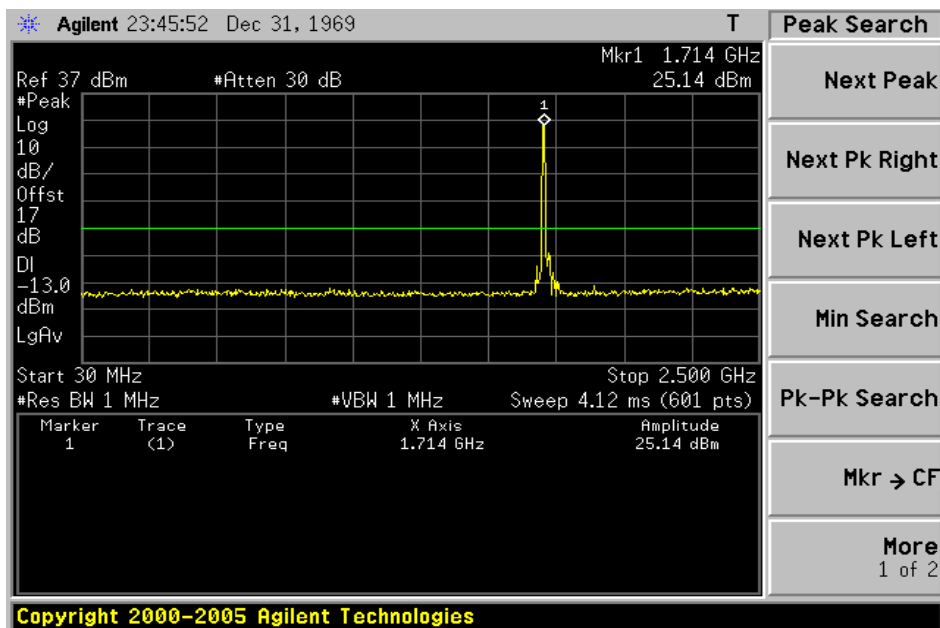
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Figure 9-41: Out of Band emission at antenna terminals – HSUPA IV Channel Lowest



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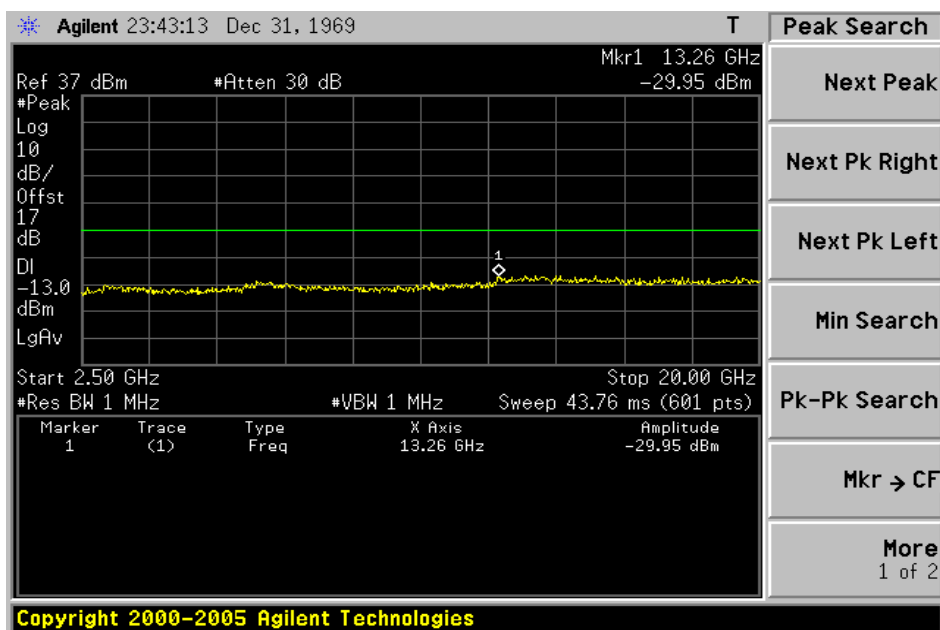
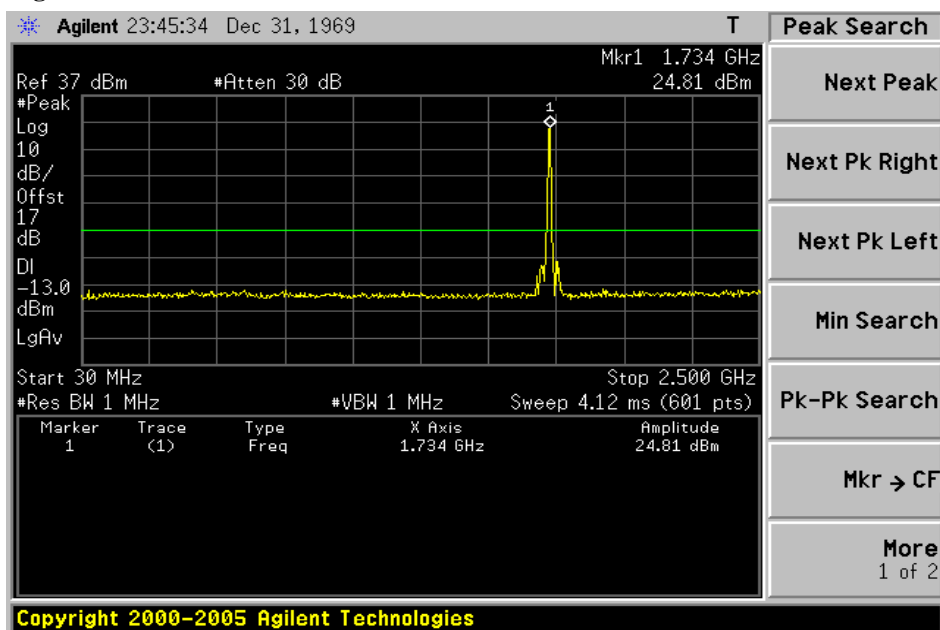
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Figure 9-42: Out of Band emission at antenna terminals – HSUPA IV Channel Mid



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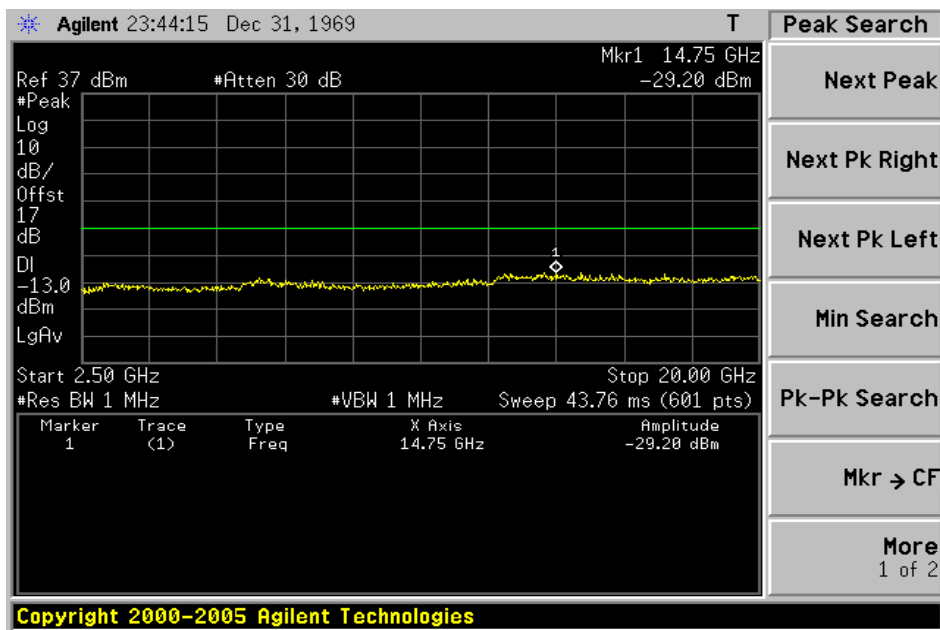
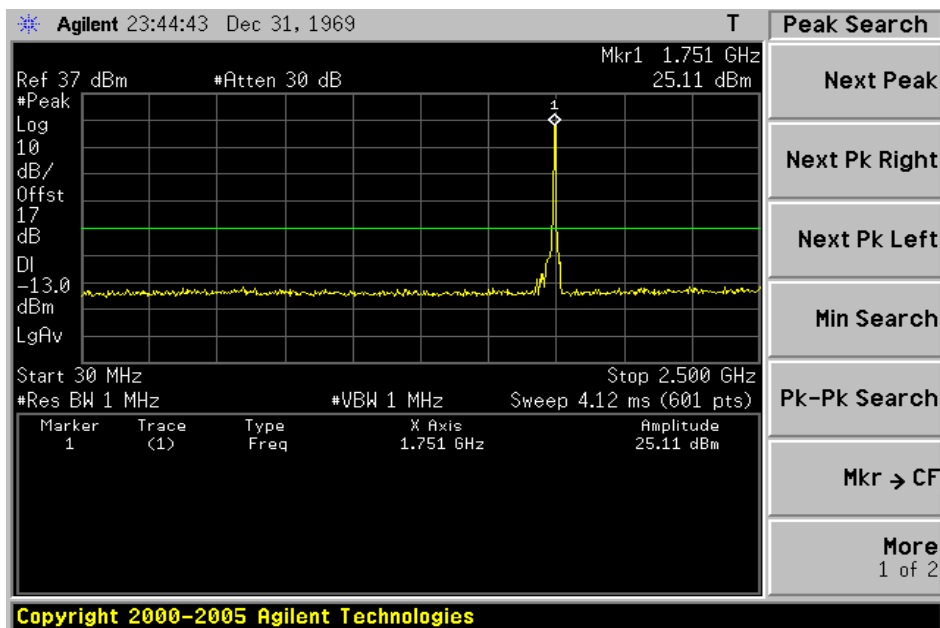
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Figure 9-43: Out of Band emission at antenna terminals – HSUPA IV Channel Highest



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Figure 9-44: Bad edge emission at antenna terminals – HSUPA IV Channel Lowest

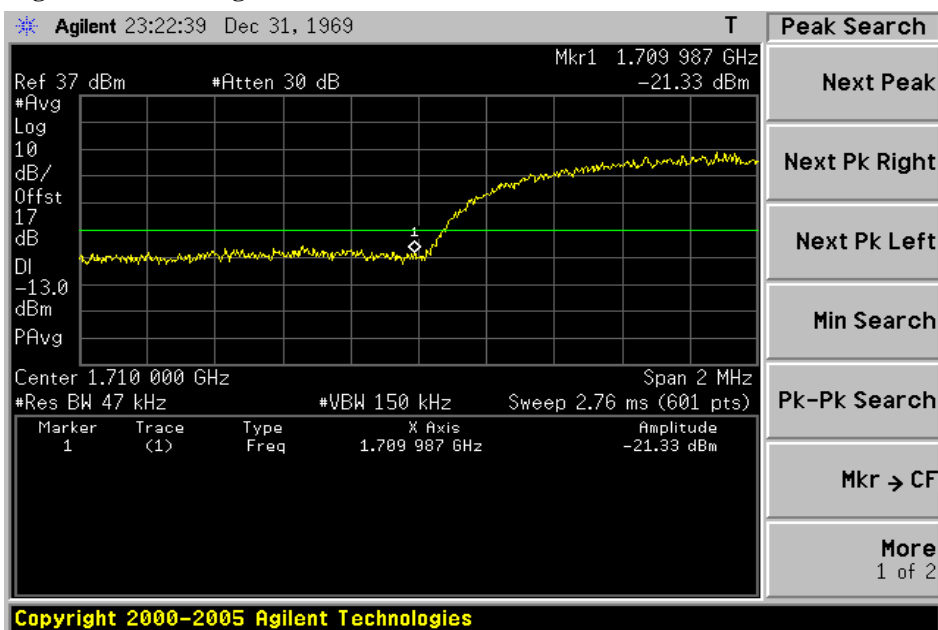
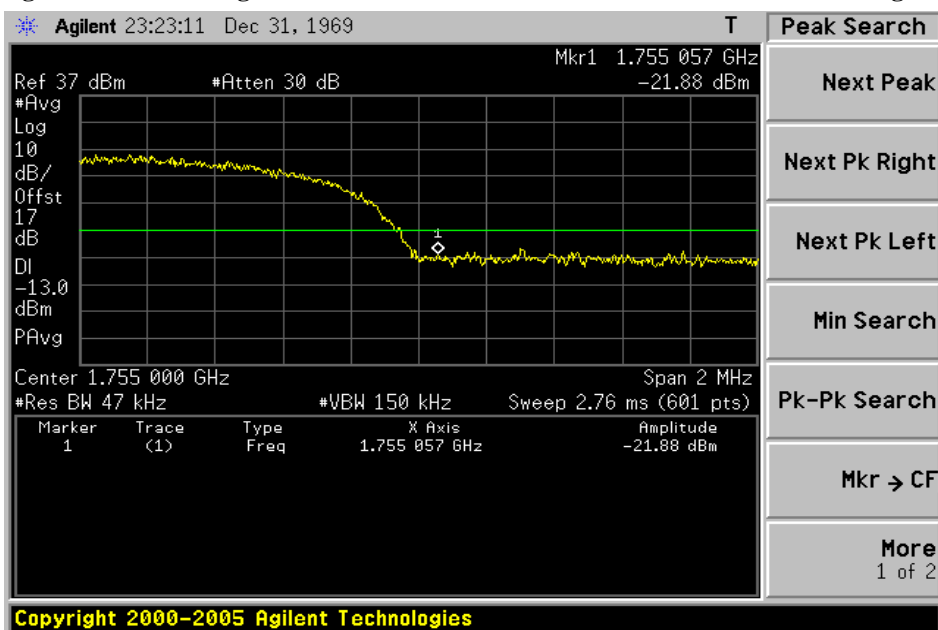


Figure 9-45: Band edge emission at antenna terminals – HSUPA IV Channel Highest



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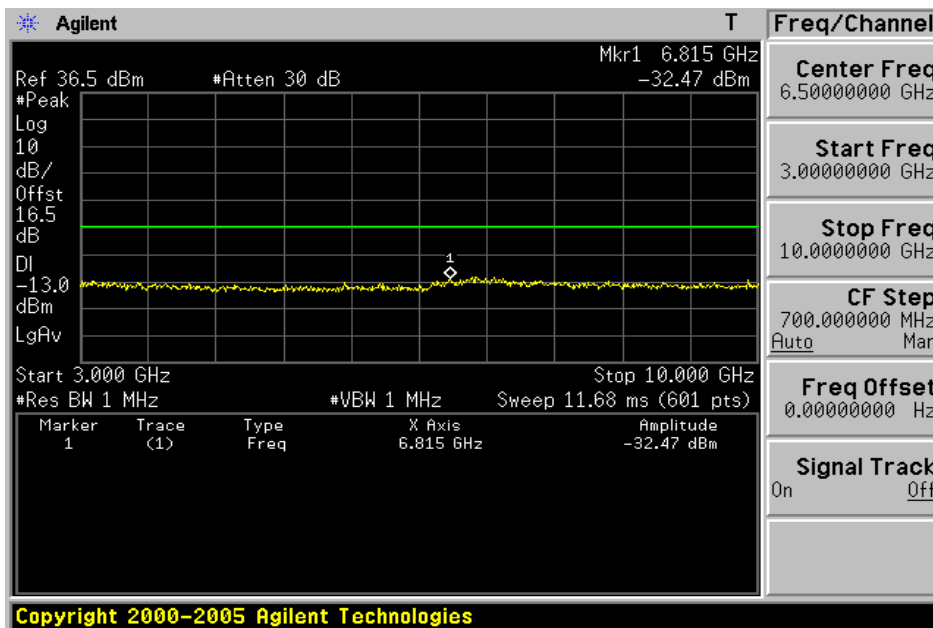
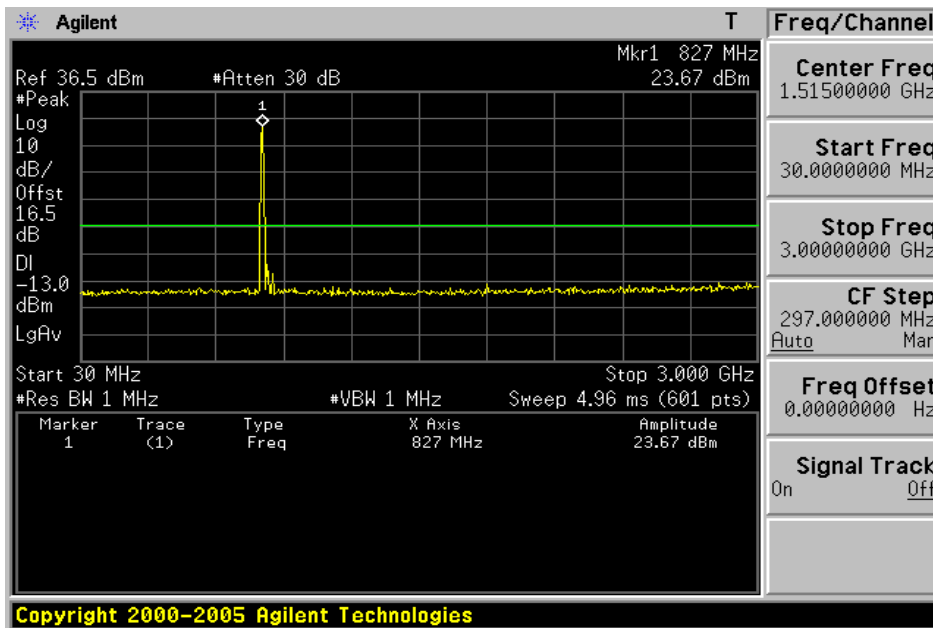
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Figure 9-46: Out of Band emission at antenna terminals – HSUPA V Channel Lowest



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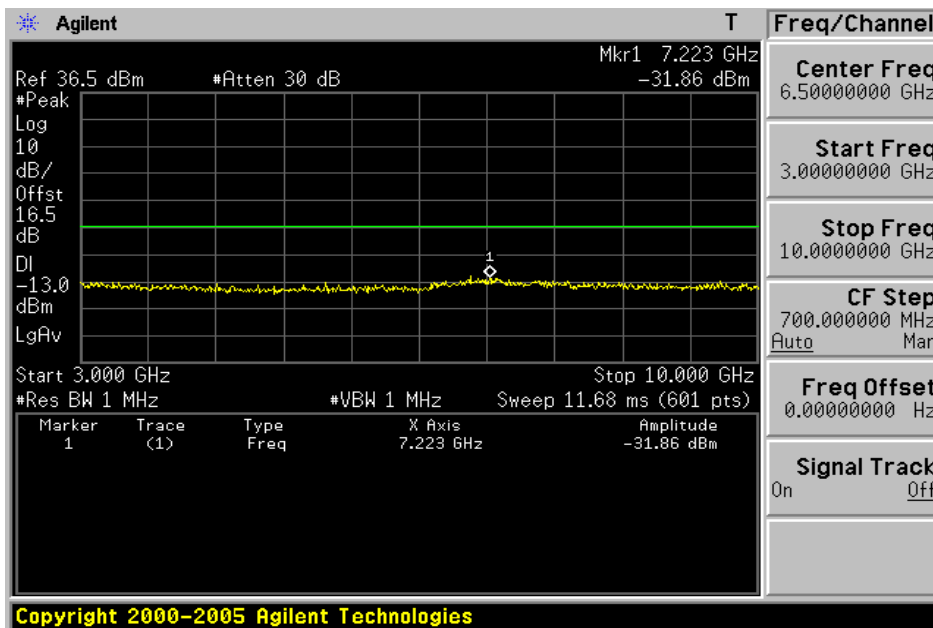
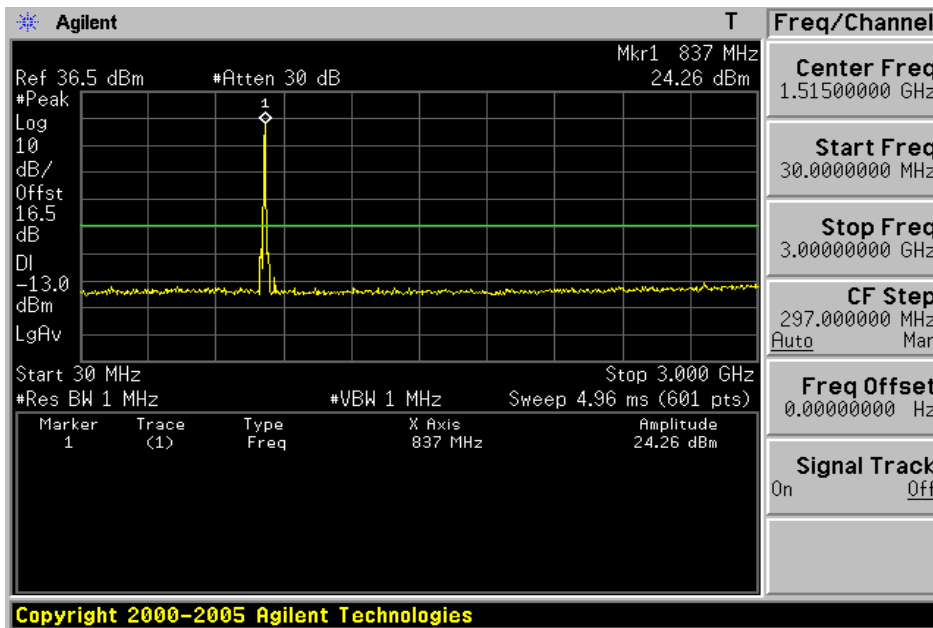
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Figure 9-47: Out of Band emission at antenna terminals – HSUPA V Channel Mid



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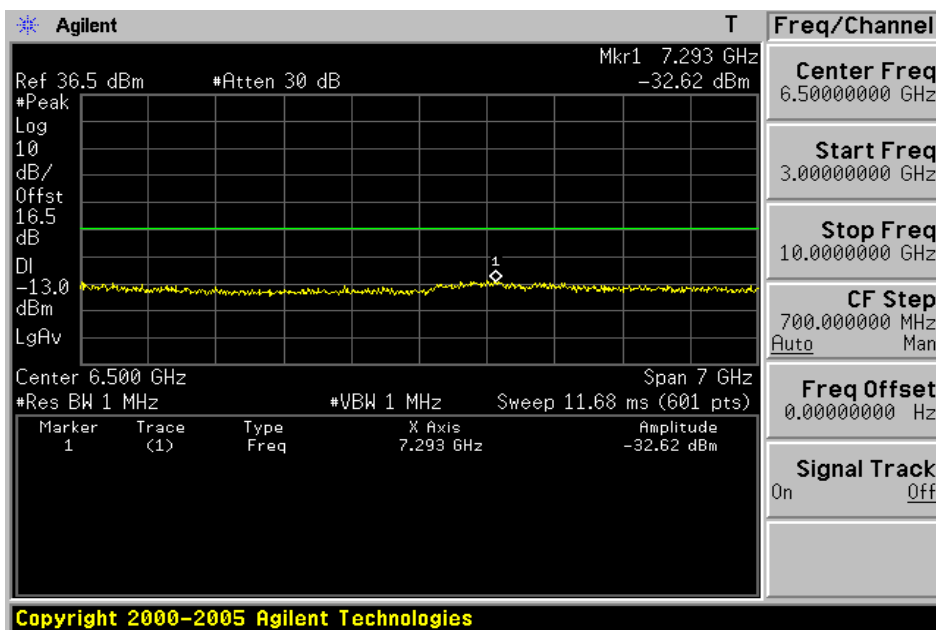
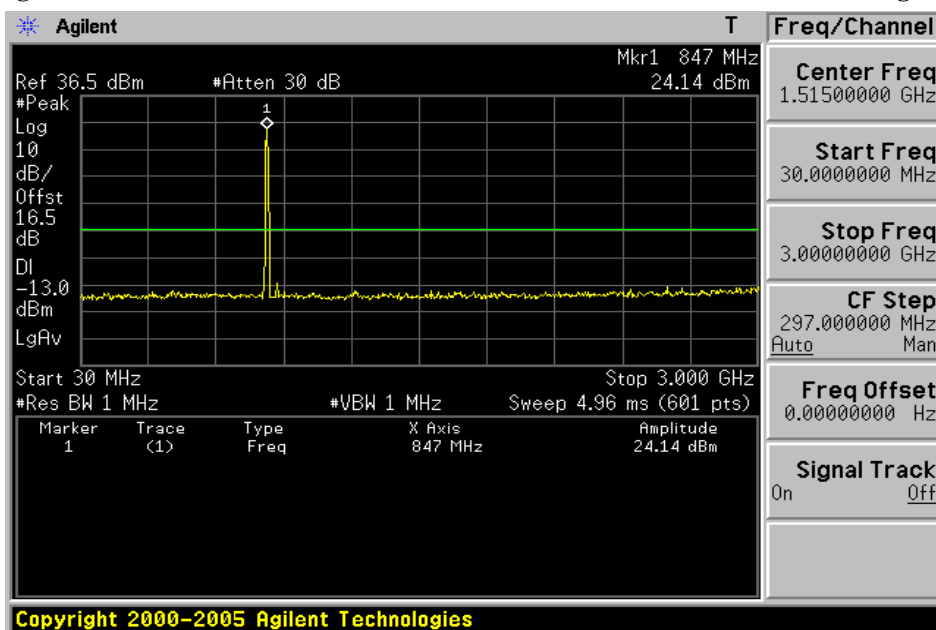
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Figure 9-48: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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Figure 9-49: Bad edge emission at antenna terminals – HSUPA V Channel Lowest

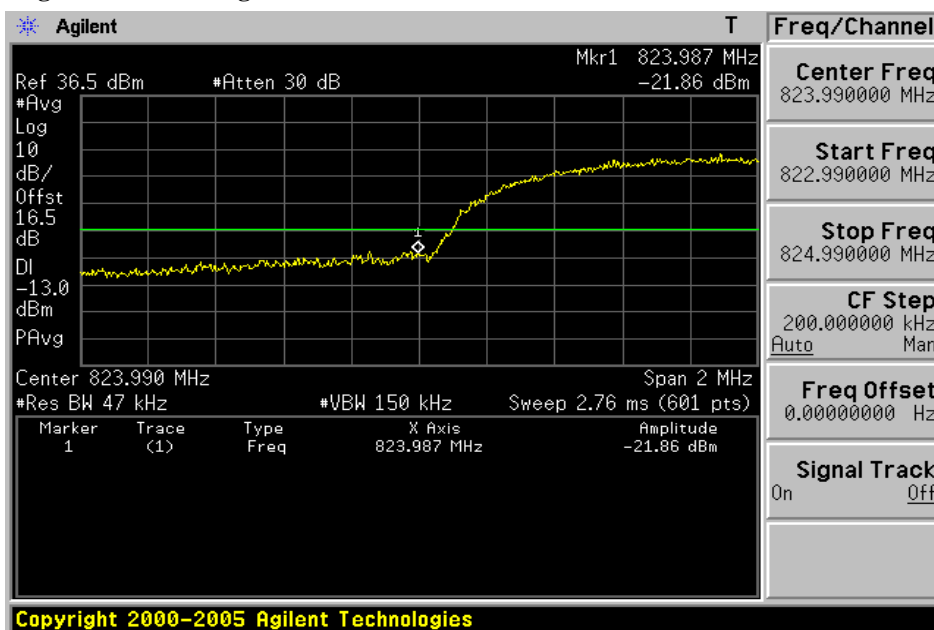


Figure 9-50: Band edge emission at antenna terminals – HSUPA V Channel Highest



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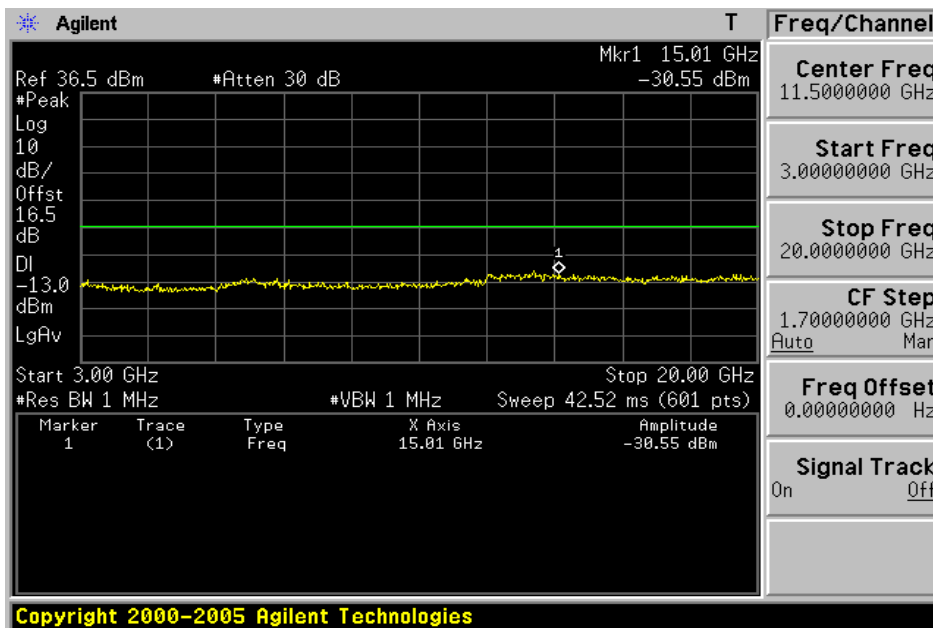
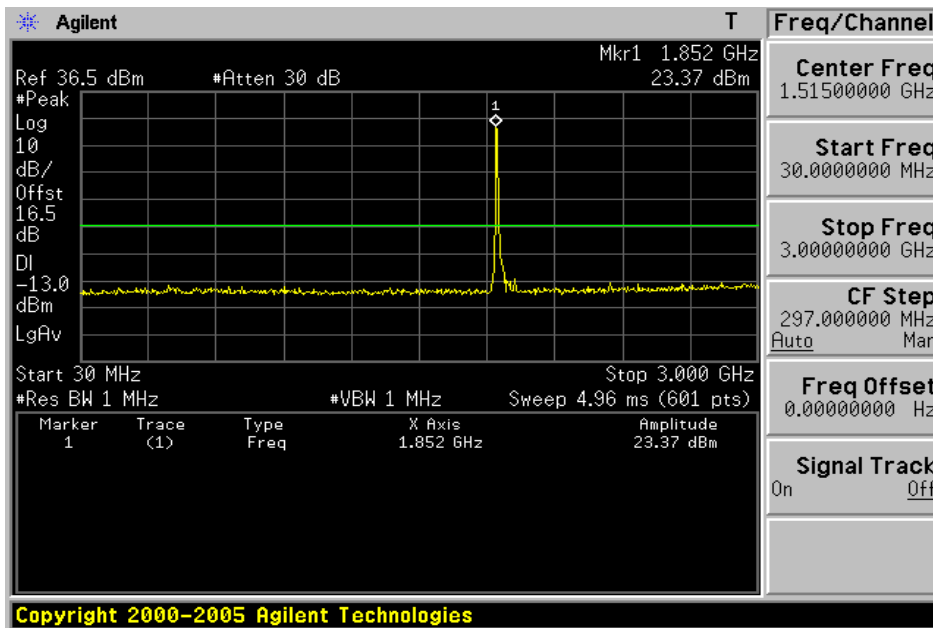
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Figure 9-51: Out of Band emission at antenna terminals – HSDPA II Channel Lowest



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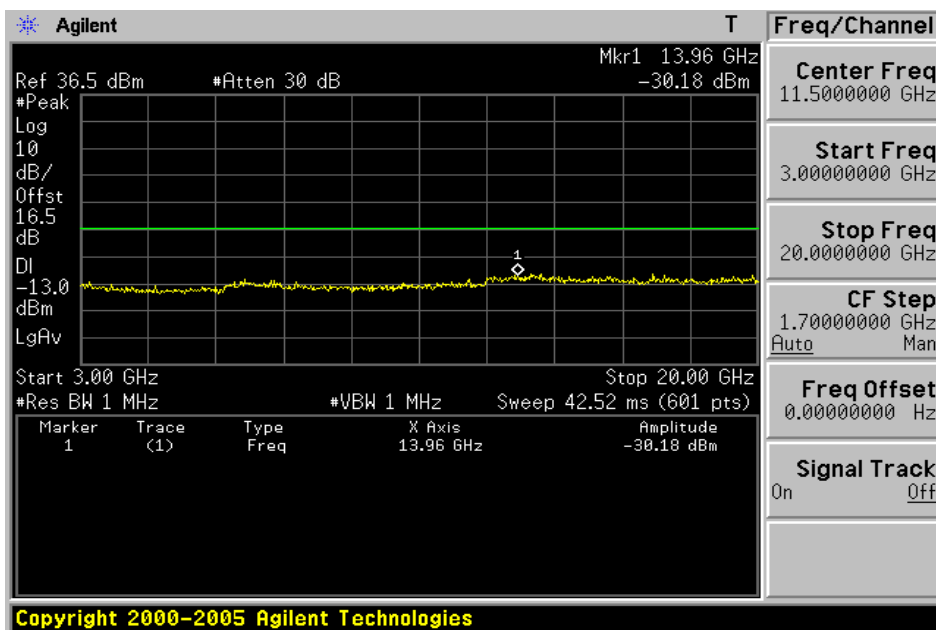
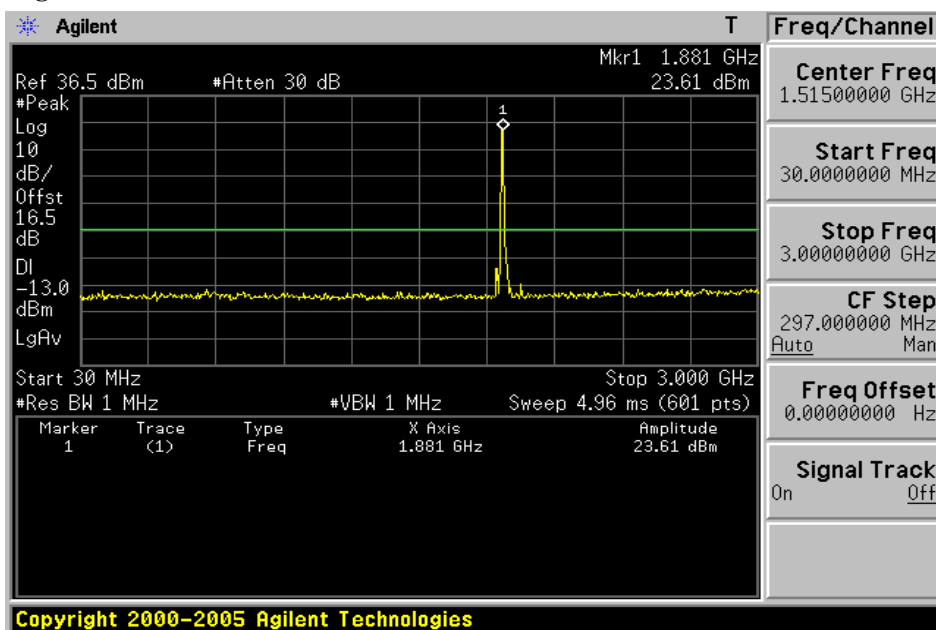
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Figure 9-52: Out of Band emission at antenna terminals – HSDPA II Channel Mid



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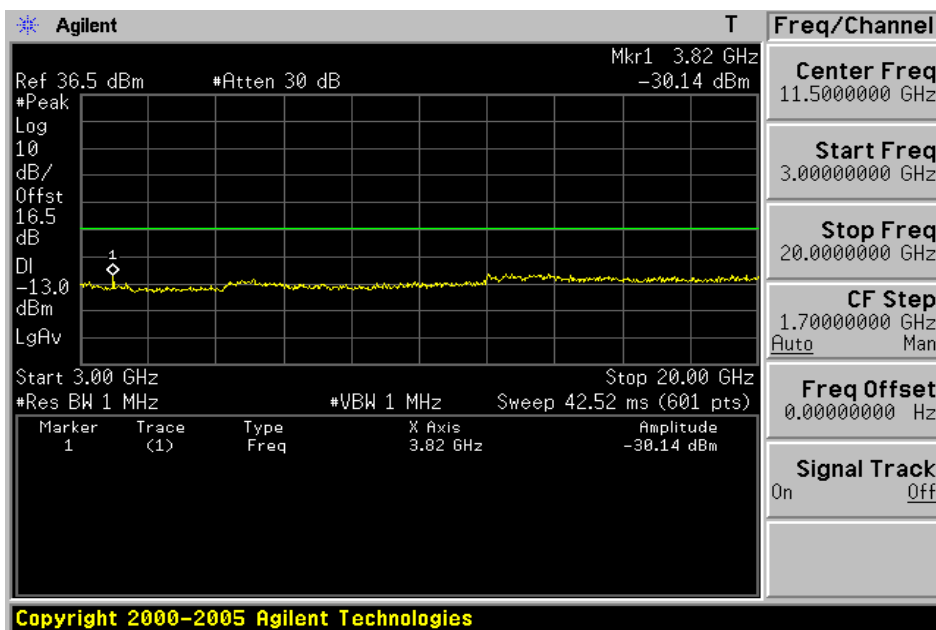
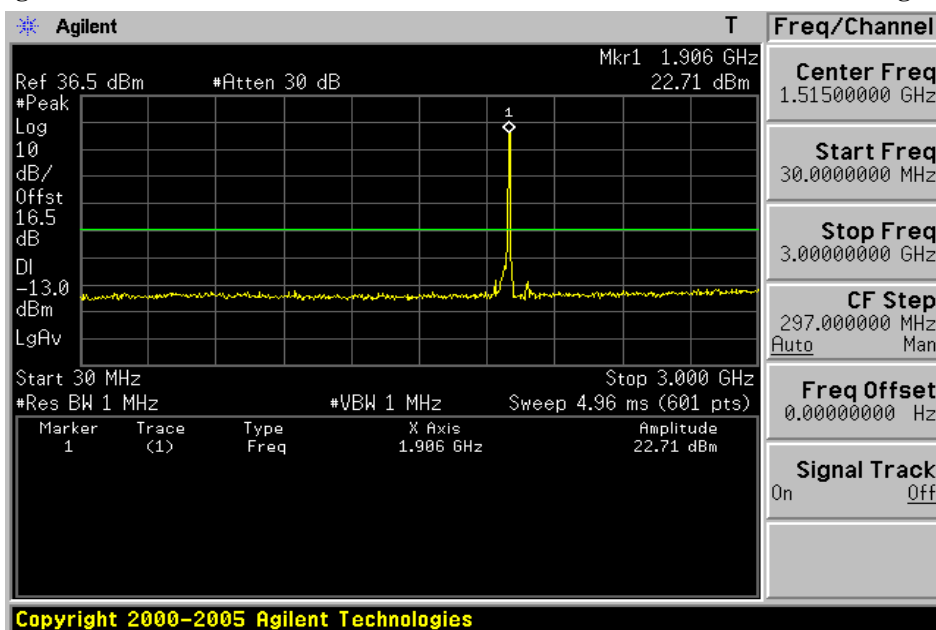
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Figure 9-53: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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Figure 9-54: Bad edge emission at antenna terminals – HSDPA II Channel Lowest

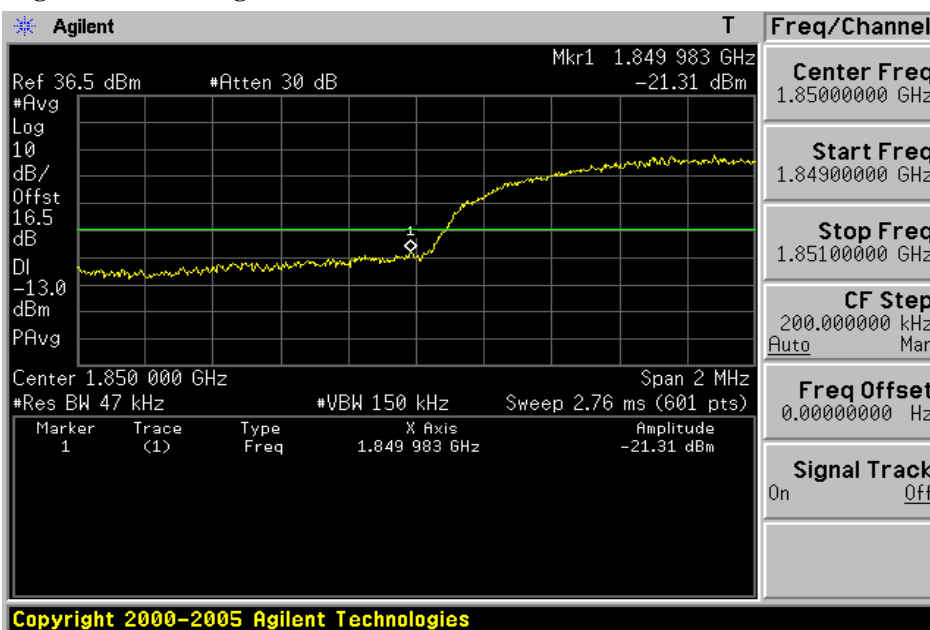
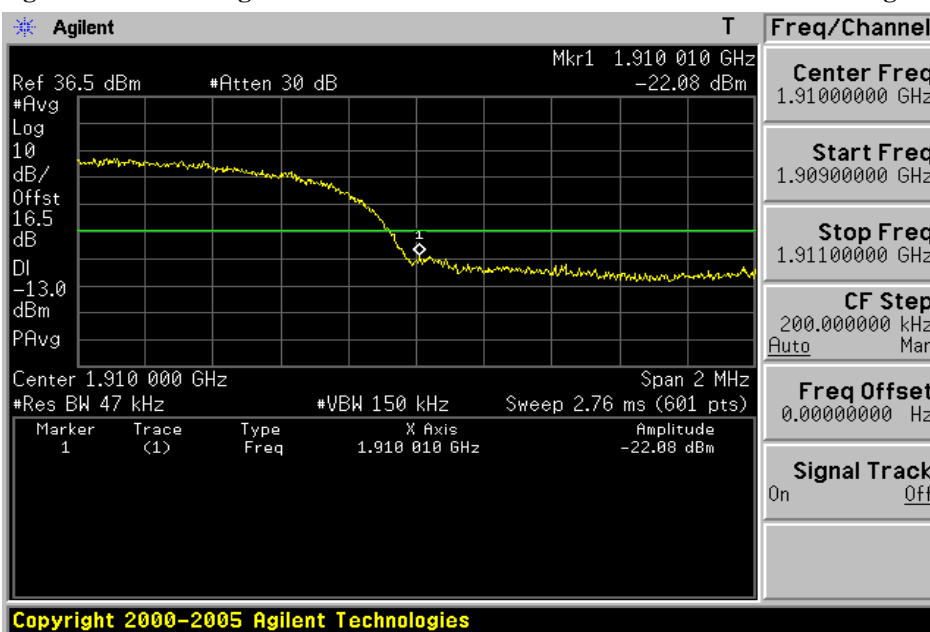


Figure 9-55: Band edge emission at antenna terminals – HSDPA II Channel Highest



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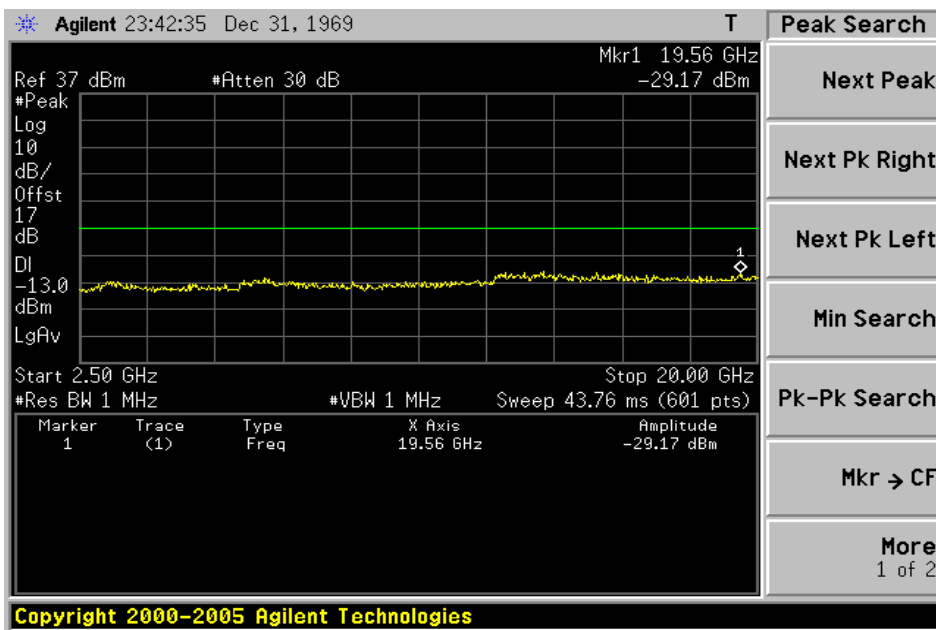
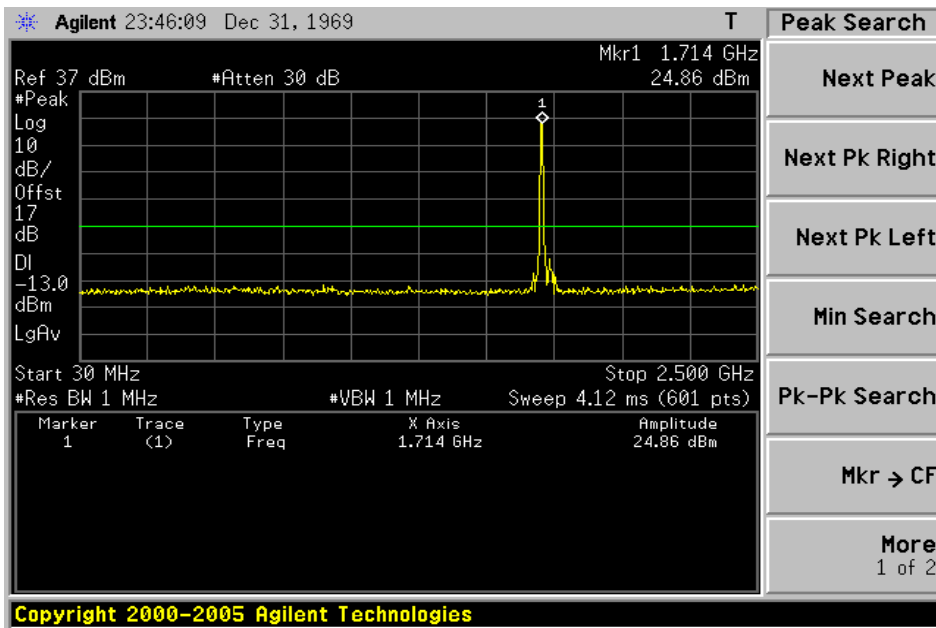
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Figure 9-56: Out of Band emission at antenna terminals – HSDPA IV Channel Lowest



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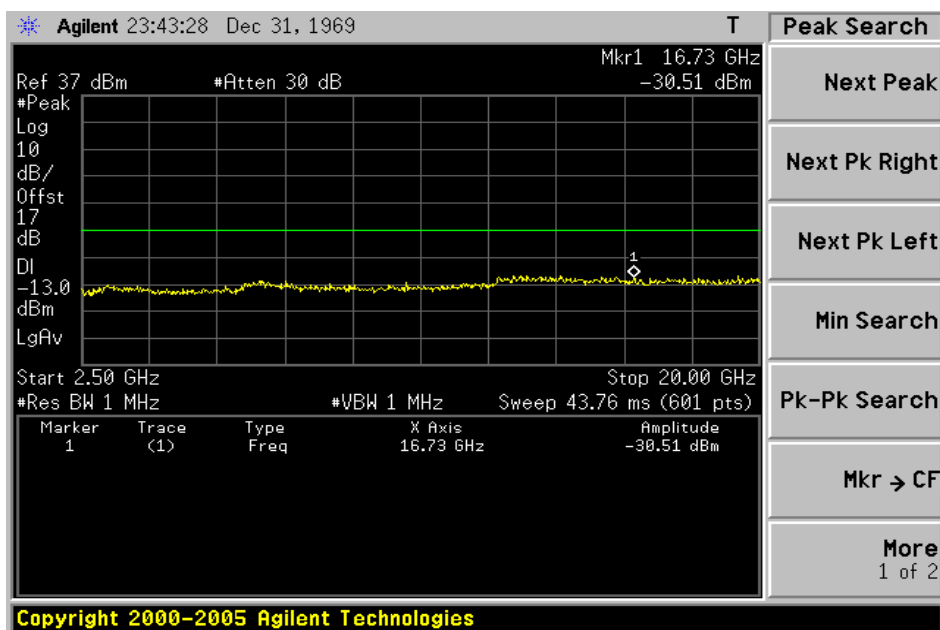
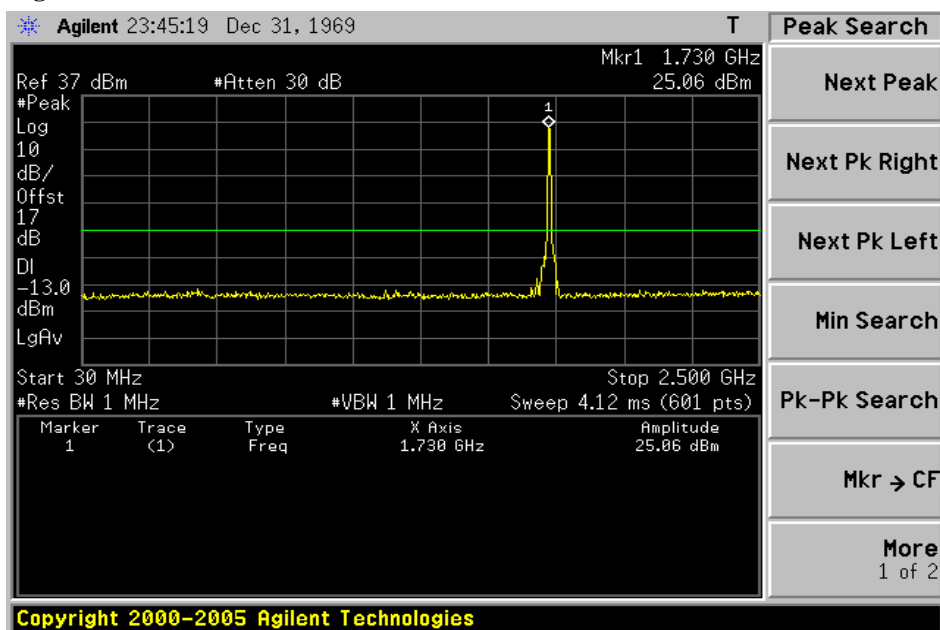
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Figure 9-57: Out of Band emission at antenna terminals – HSDPA IV Channel Mid



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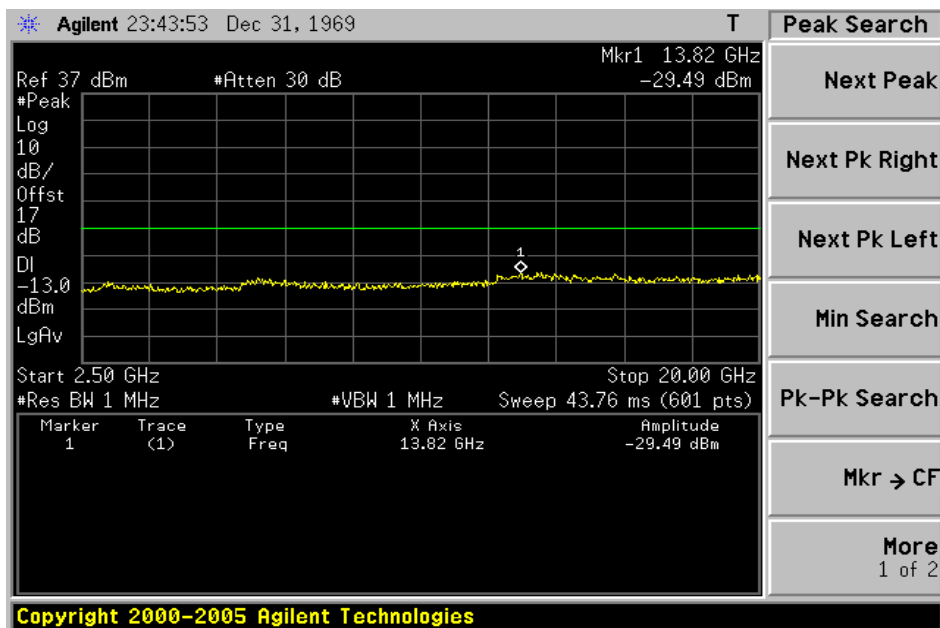
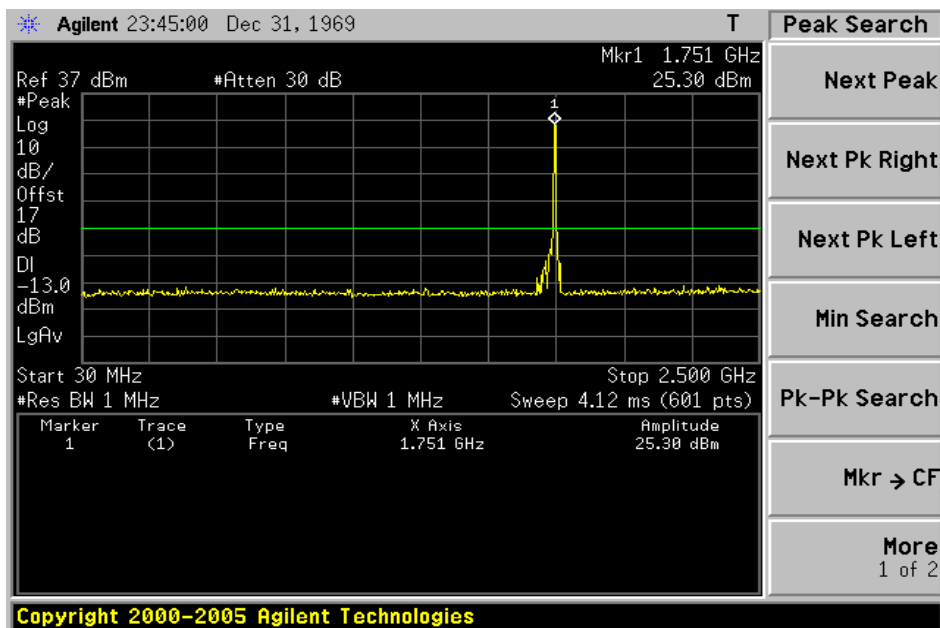
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Figure 9-58: Out of Band emission at antenna terminals – HSDPA IV Channel Highest



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Figure 9-59: Bad edge emission at antenna terminals – HSDPA IV Channel Lowest

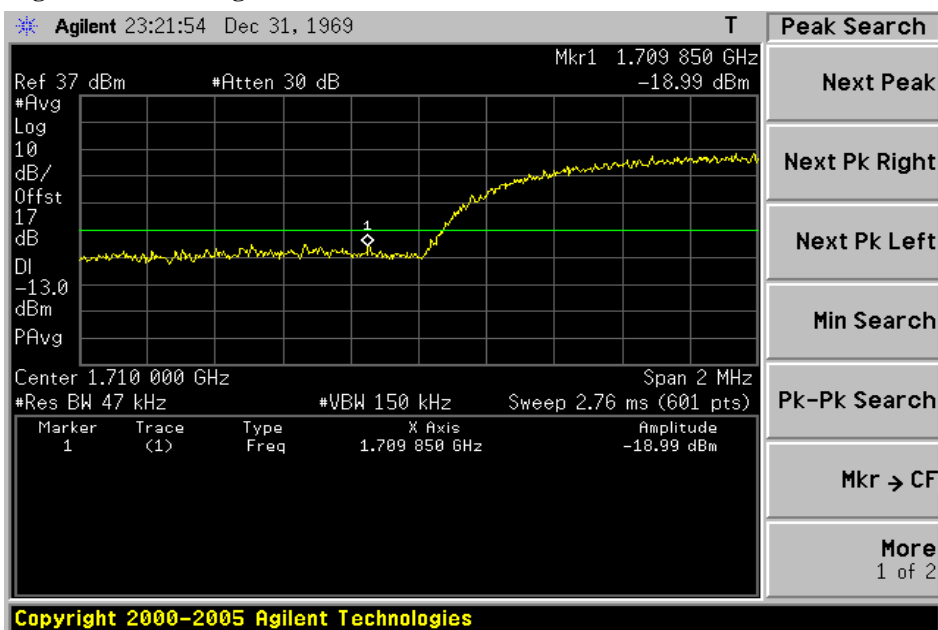
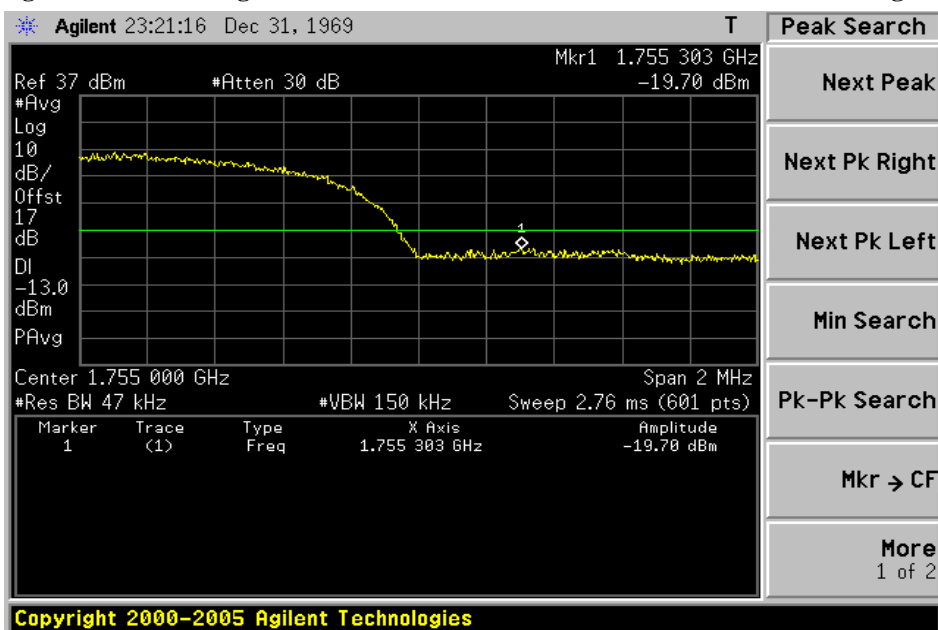


Figure 9-60: Band edge emission at antenna terminals – HSDPA IV Channel Highest



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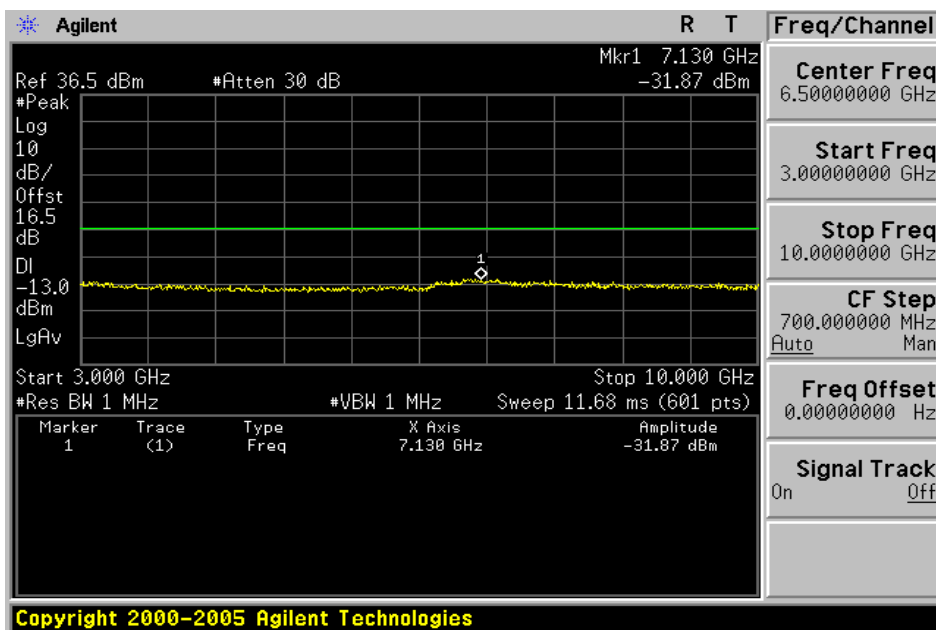
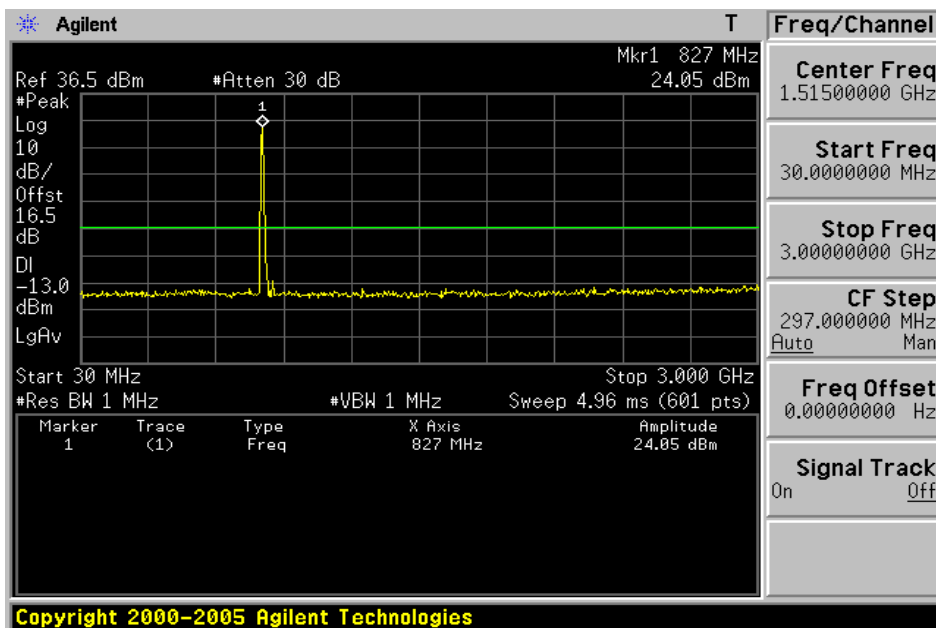
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Figure 9-61: Out of Band emission at antenna terminals – HSDPA V Channel Lowest



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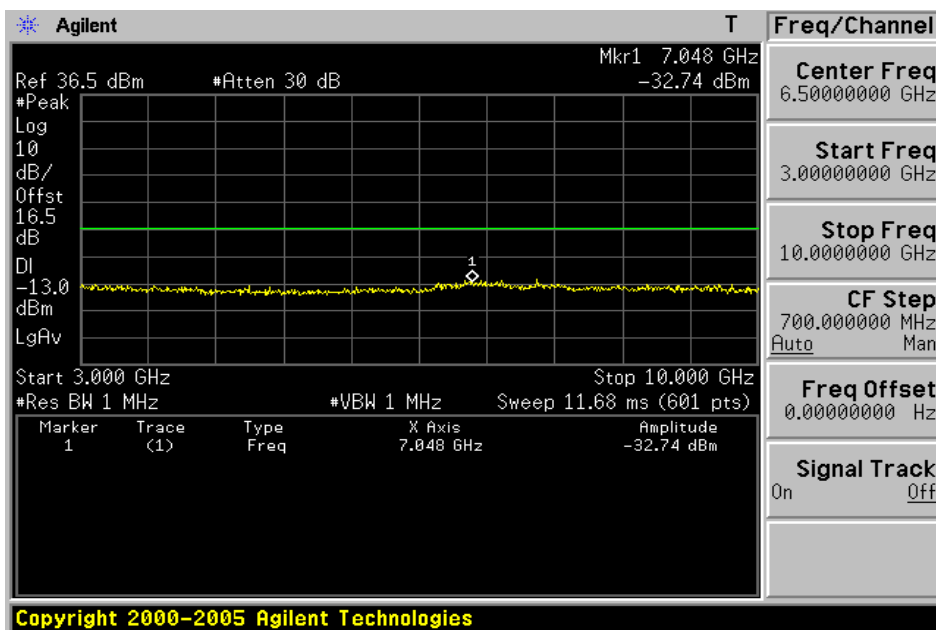
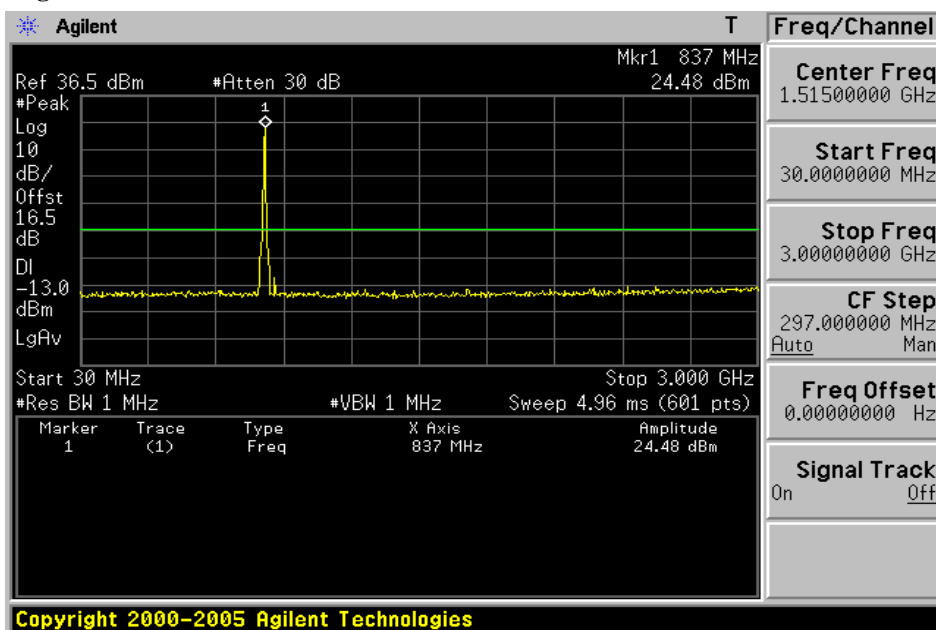
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Figure 9-62: Out of Band emission at antenna terminals – HSDPA V Channel Mid



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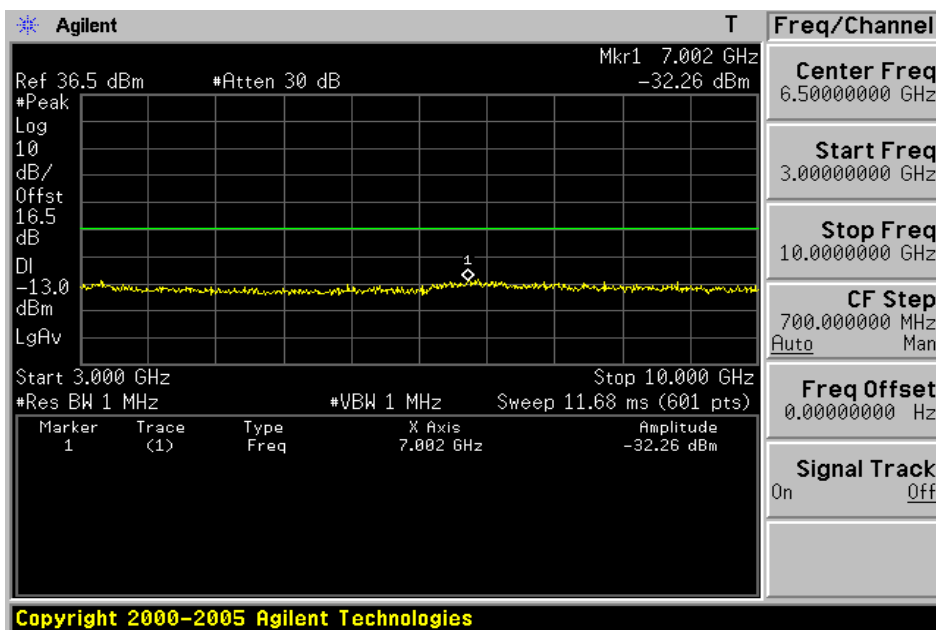
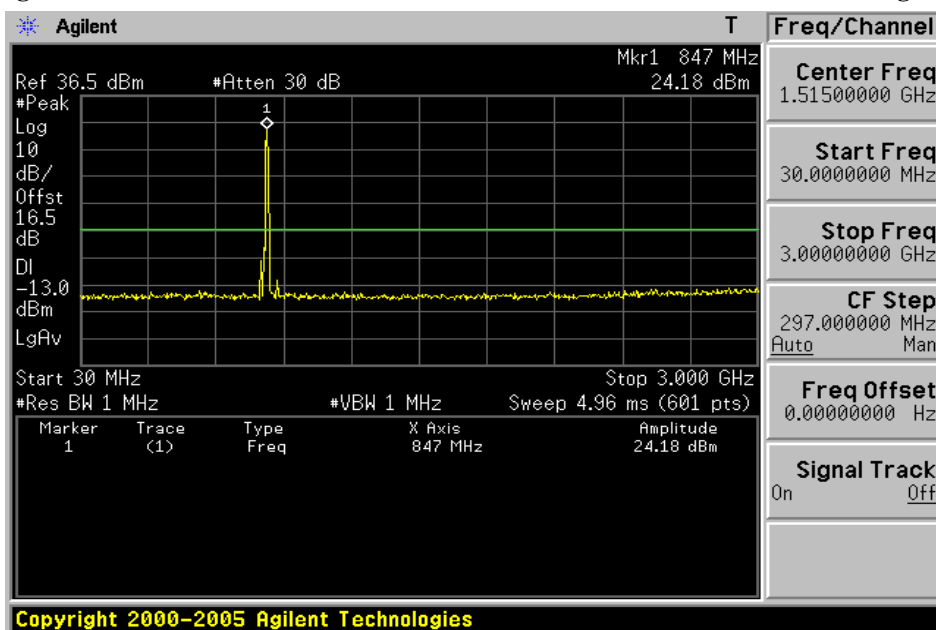
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Figure 9-63: Out of Band emission at antenna terminals – HSDPA V Channel Highest



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Figure 9-64: Bad edge emission at antenna terminals – HSDPA V Channel Lowest

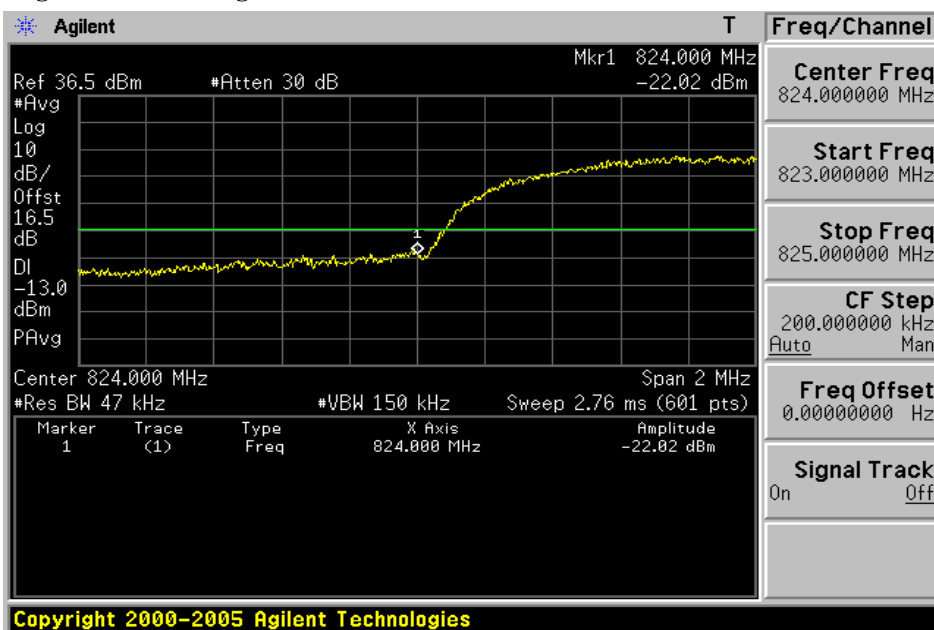
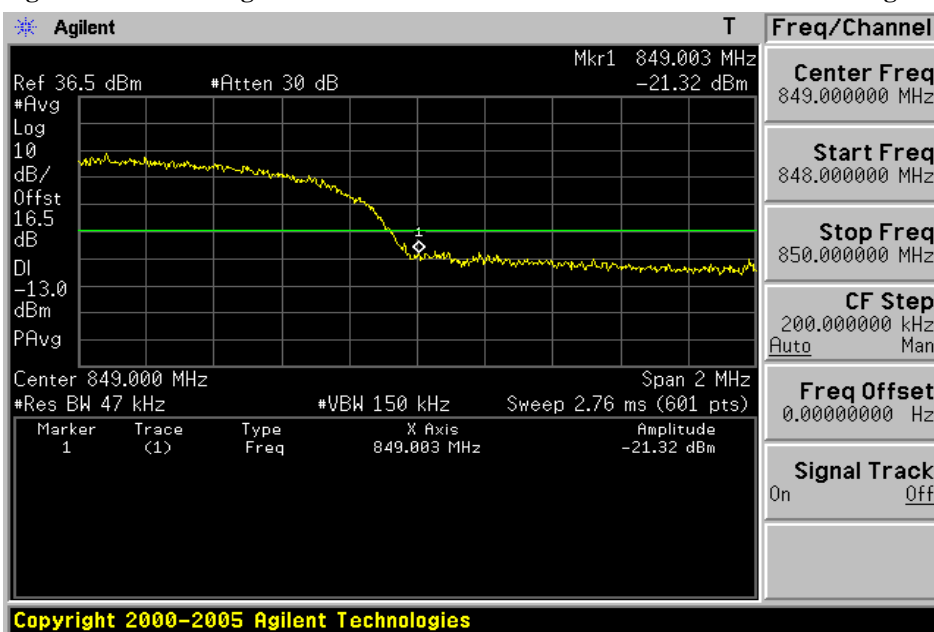


Figure 9-65: Band edge emission at antenna terminals – HSDPA V Channel Highest



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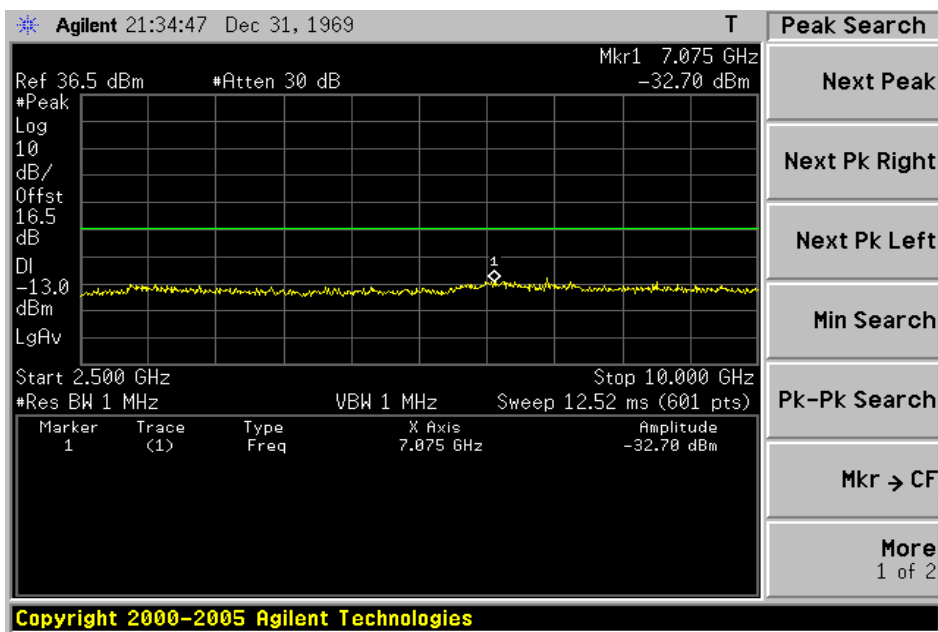
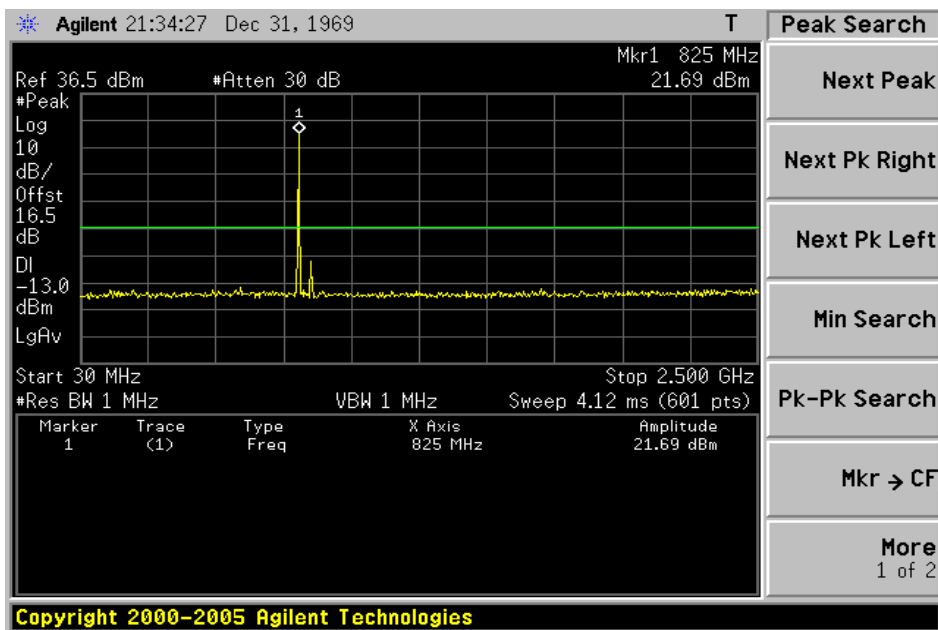
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Figure 9-66: Out of Band emission at antenna terminals – CDMA 2000 Cellular Channel Lowest



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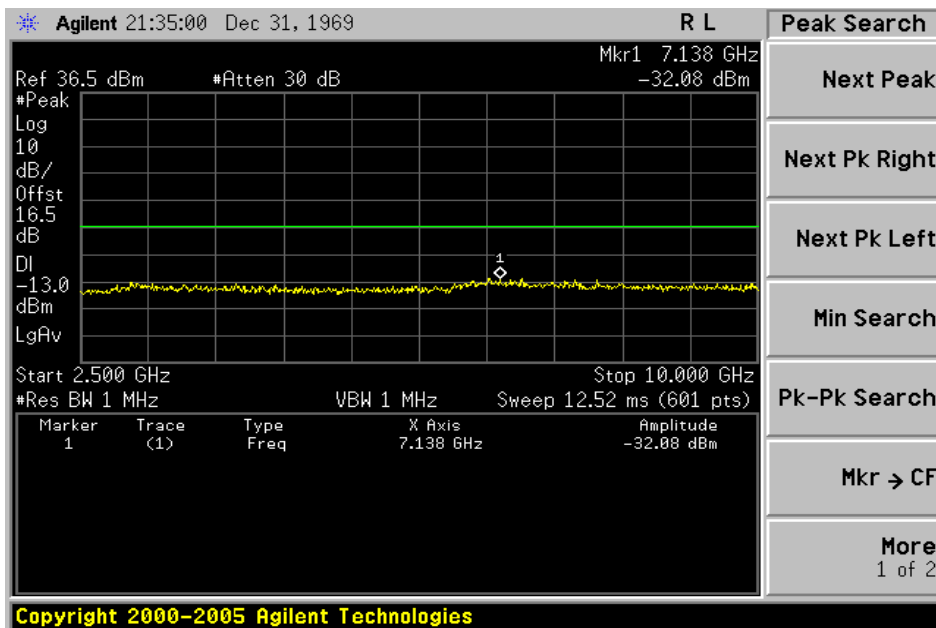
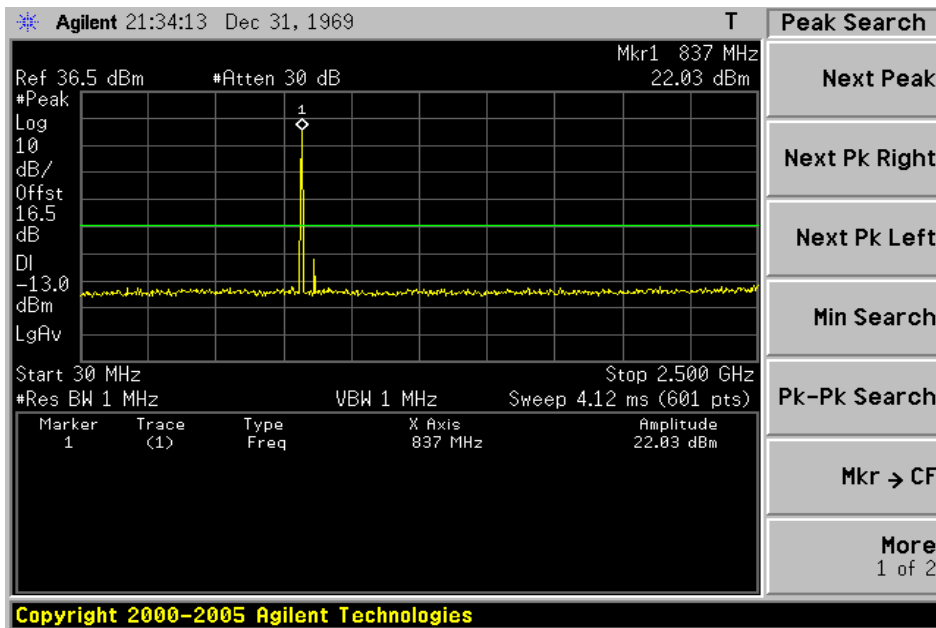
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Figure 9-67: Out of Band emission at antenna terminals – CDMA 2000 Cellular Channel Mid



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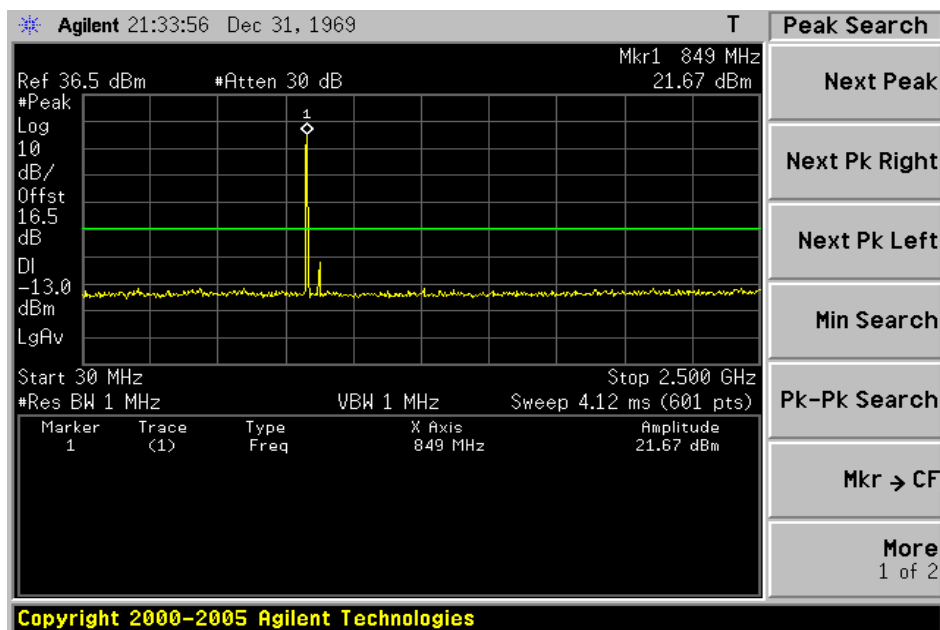
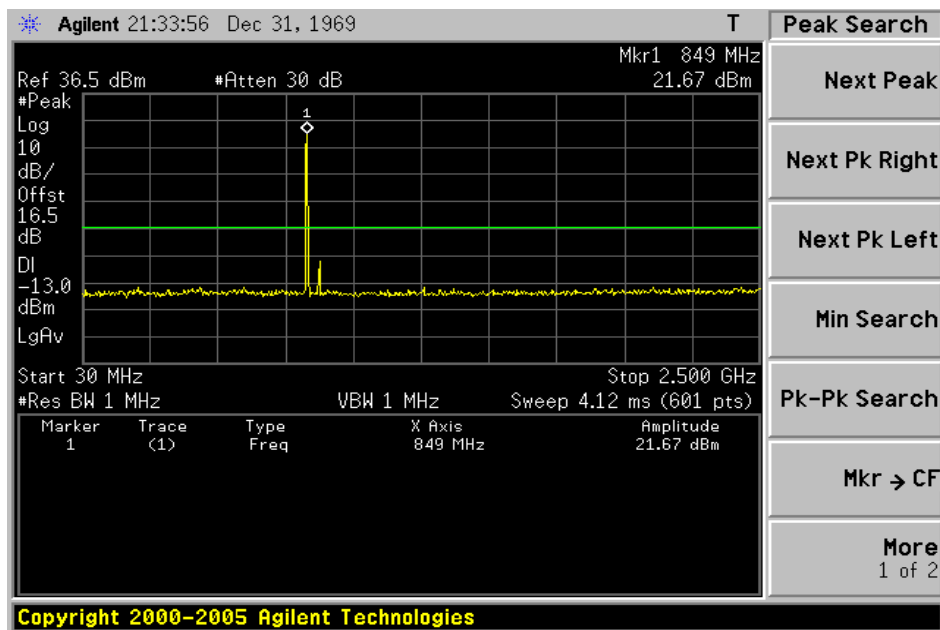
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Figure 9-68: Out of Band emission at antenna terminals – CDMA 2000 Cellular Channel Highest



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Figure 9-69: Band edge emission at antenna terminals – CDMA 2000 Cellular Channel Lowest

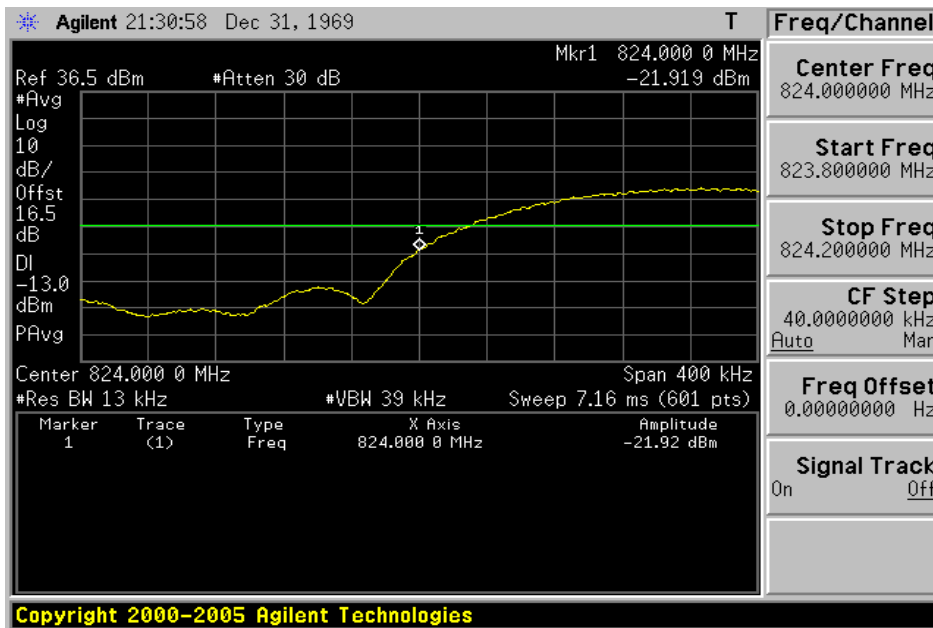
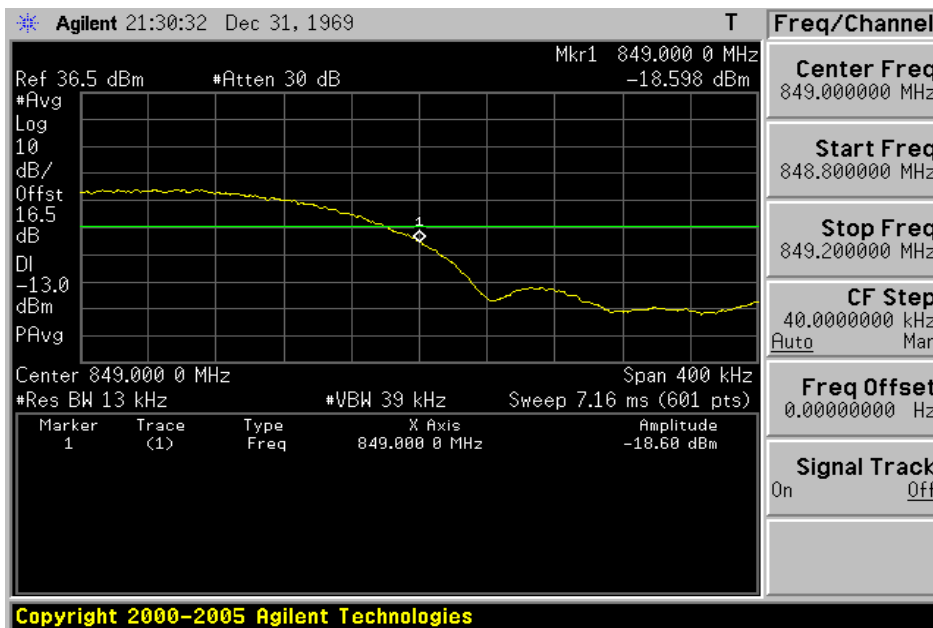


Figure 9-70: Band edge emission at antenna terminals – CDMA 2000 Cellular Channel Highest



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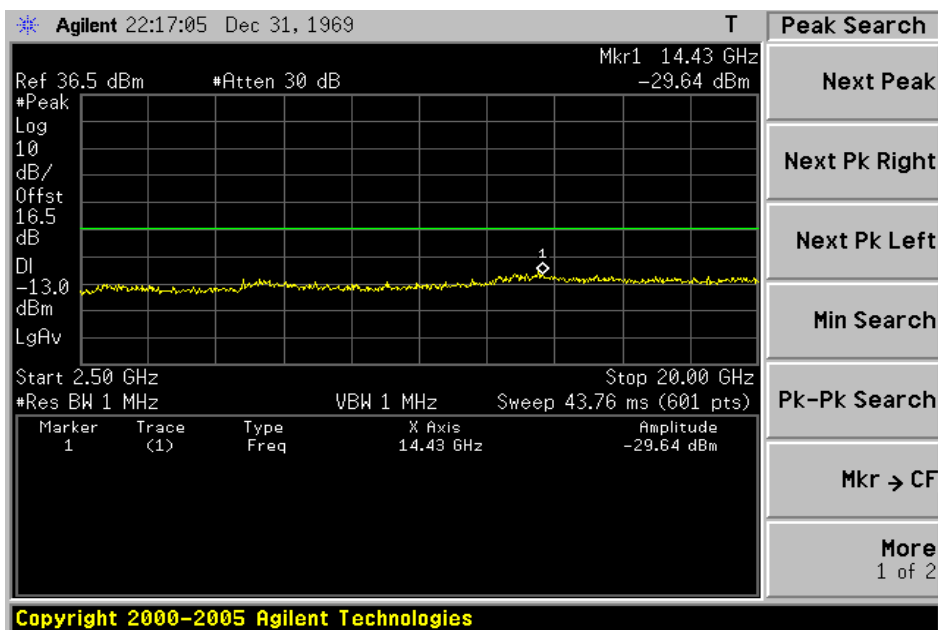
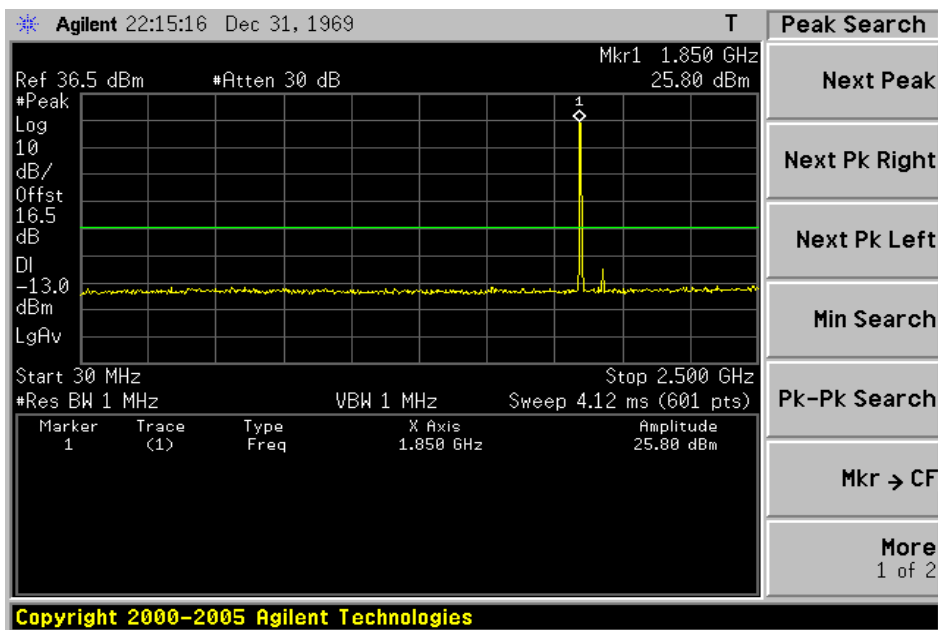
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Figure 9-71: Out of Band emission at antenna terminals – CDMA 2000 PCS Channel Lowest



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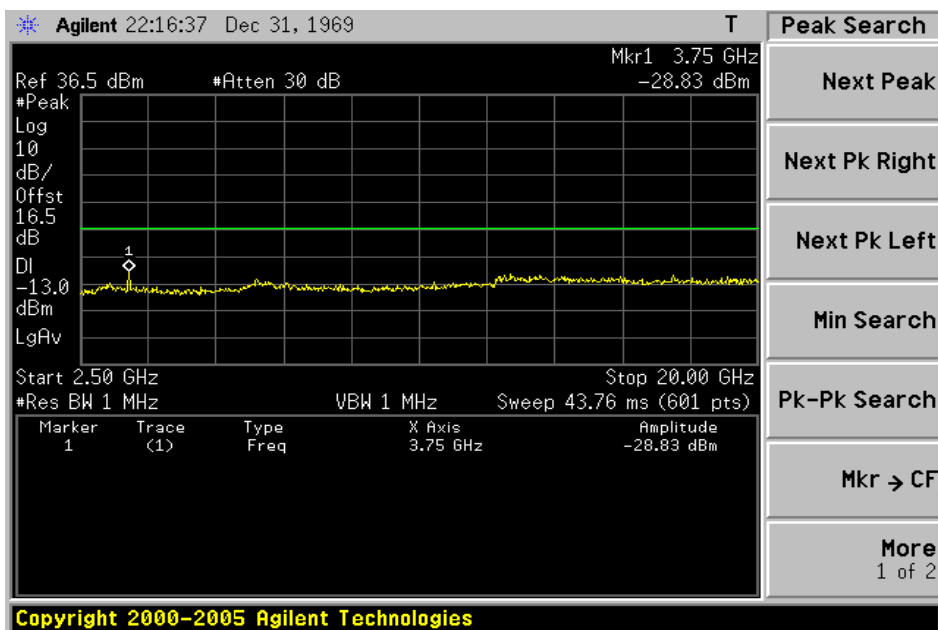
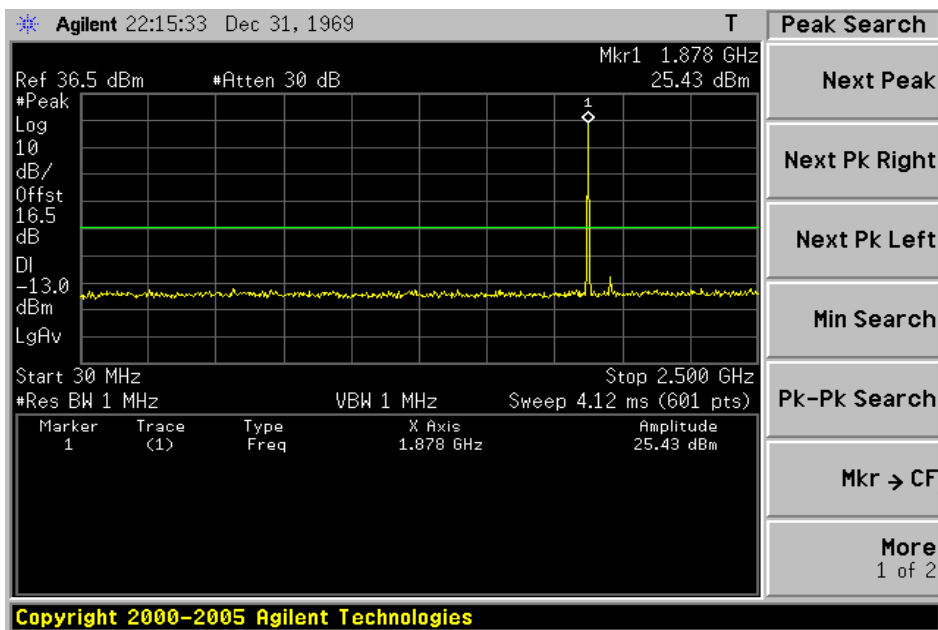
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Figure 9-72: Out of Band emission at antenna terminals – CDMA 2000 PCS Channel Mid



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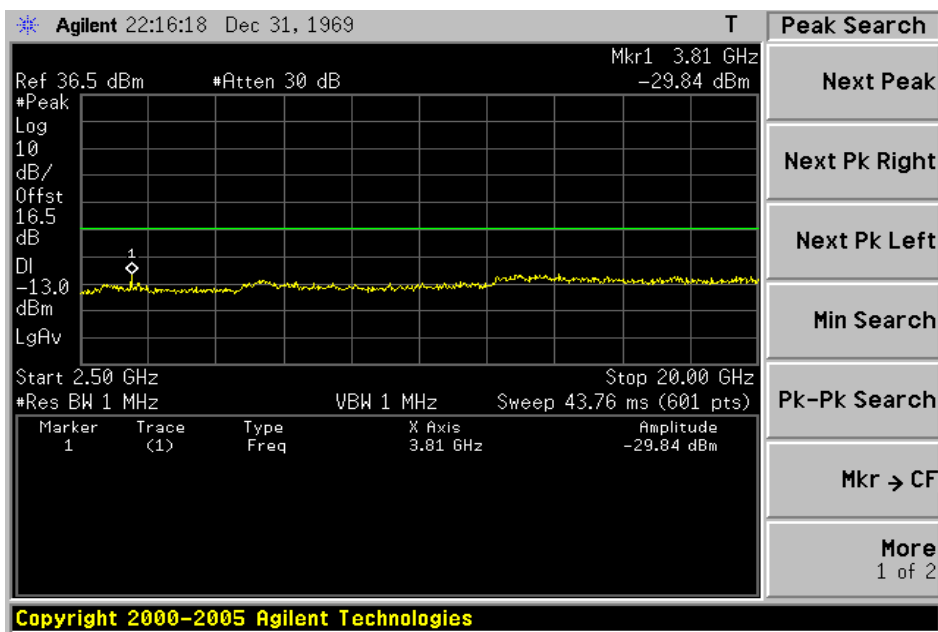
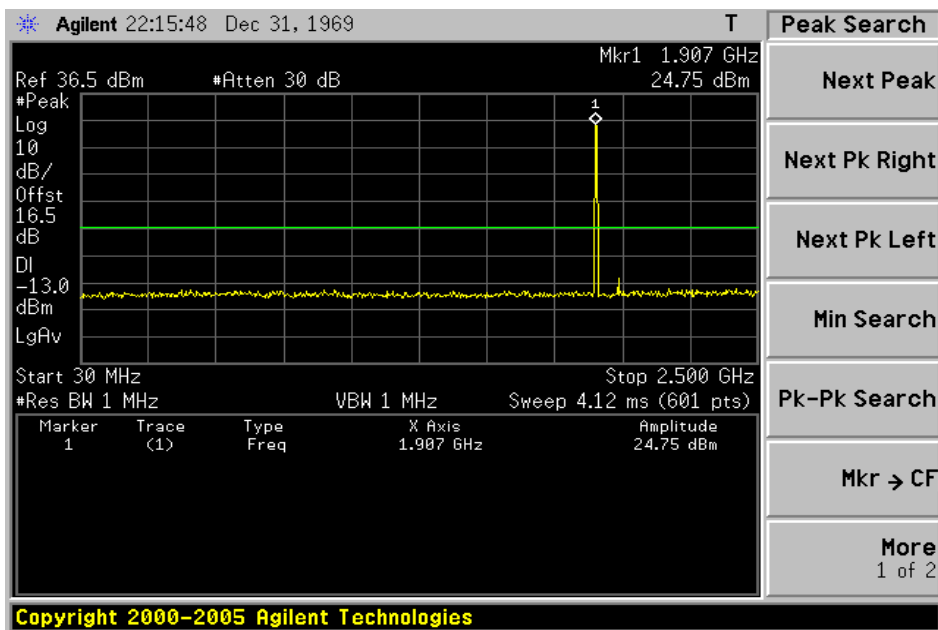
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Figure 9-73: Out of Band emission at antenna terminals – CDMA 2000 PCS Channel Highest



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Figure 9-74: Band edge emission at antenna terminals – CDMA 2000 PCS Channel Lowest

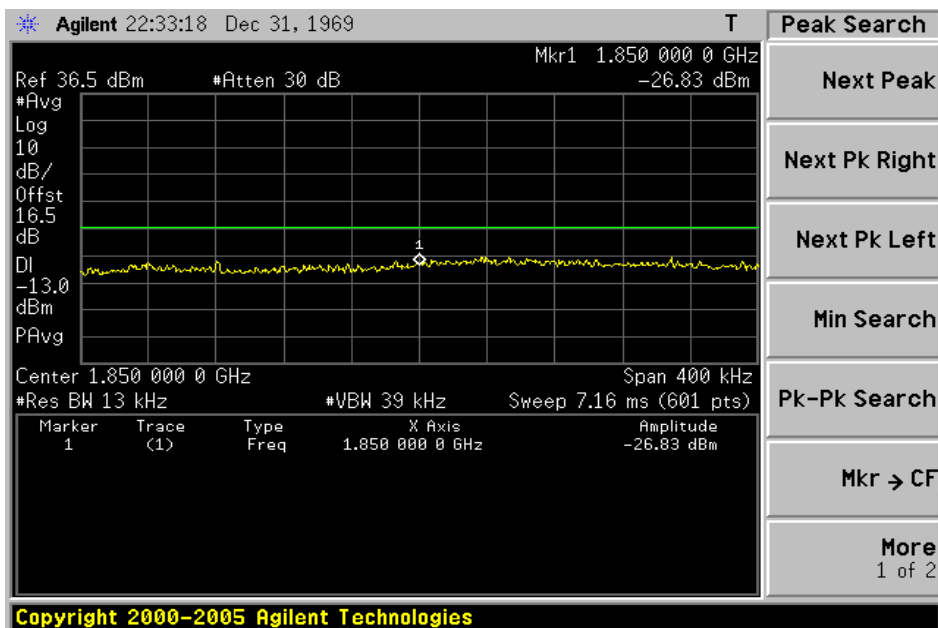
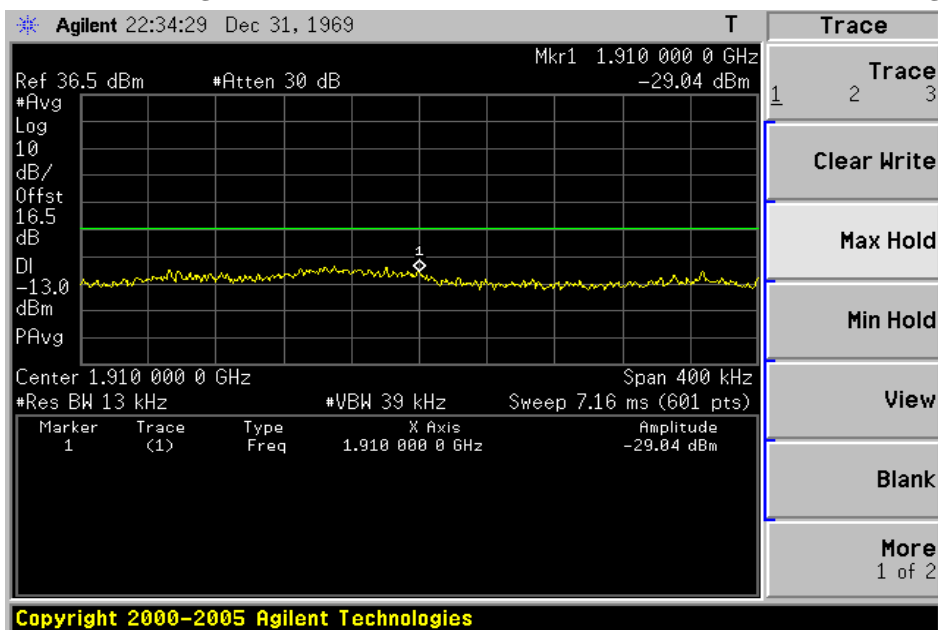


Figure 9-75: Band edge emission at antenna terminals – CDMA 2000 PCS Channel Highest



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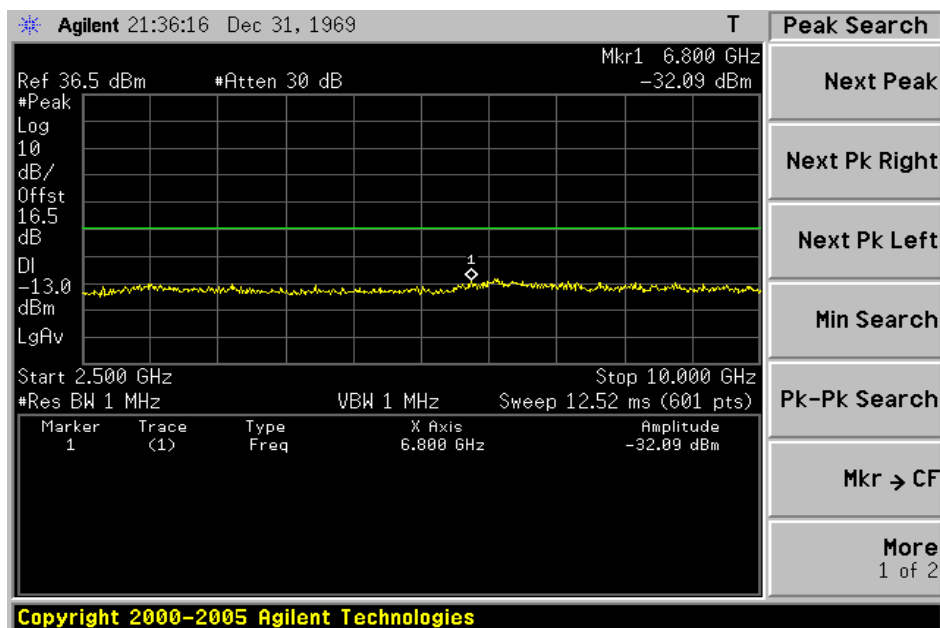
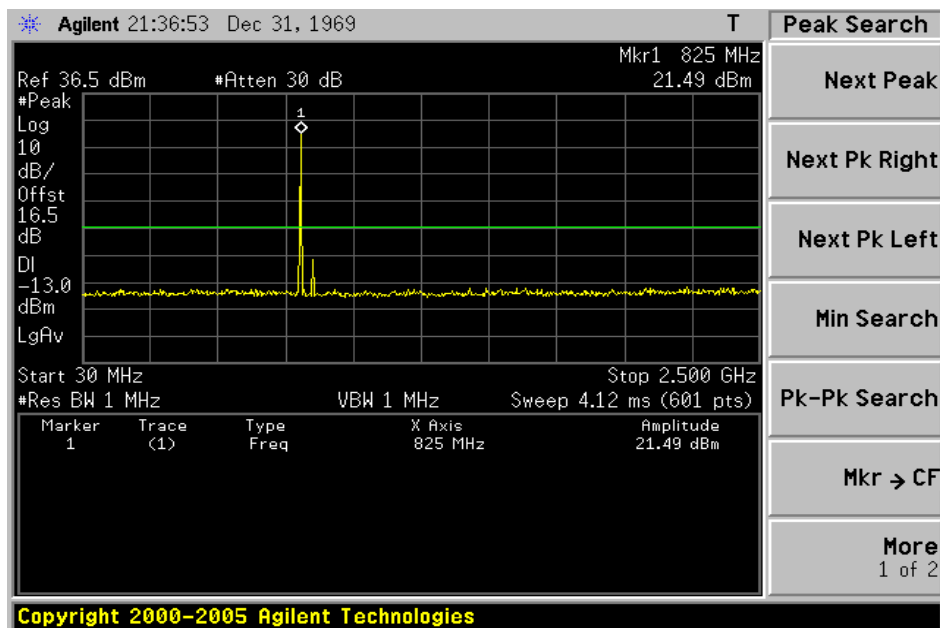
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**Figure 9-76: Out of Band emission at antenna terminals – CDMA 2000 EVDO Cellular Channel  
Lowest**



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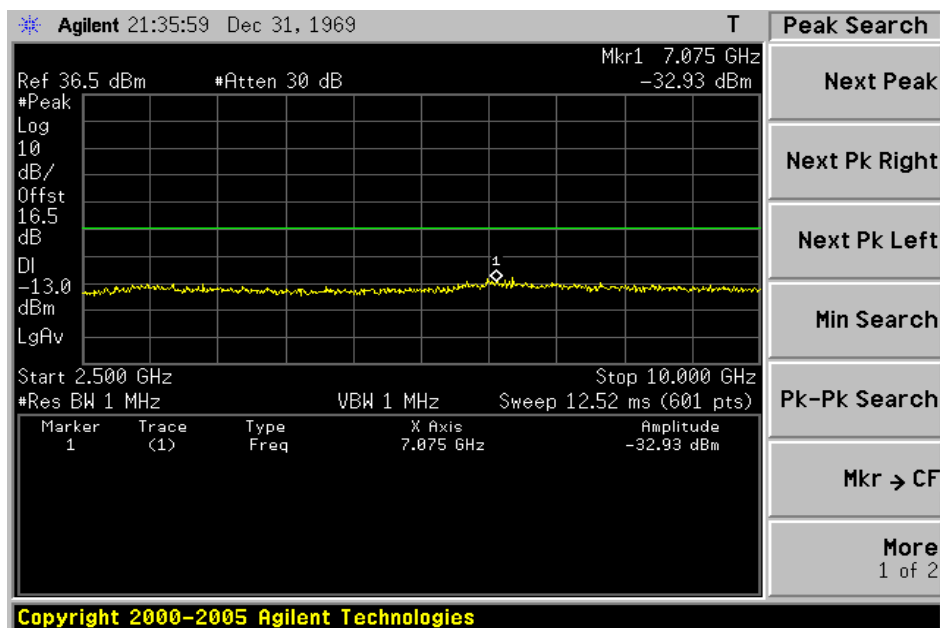
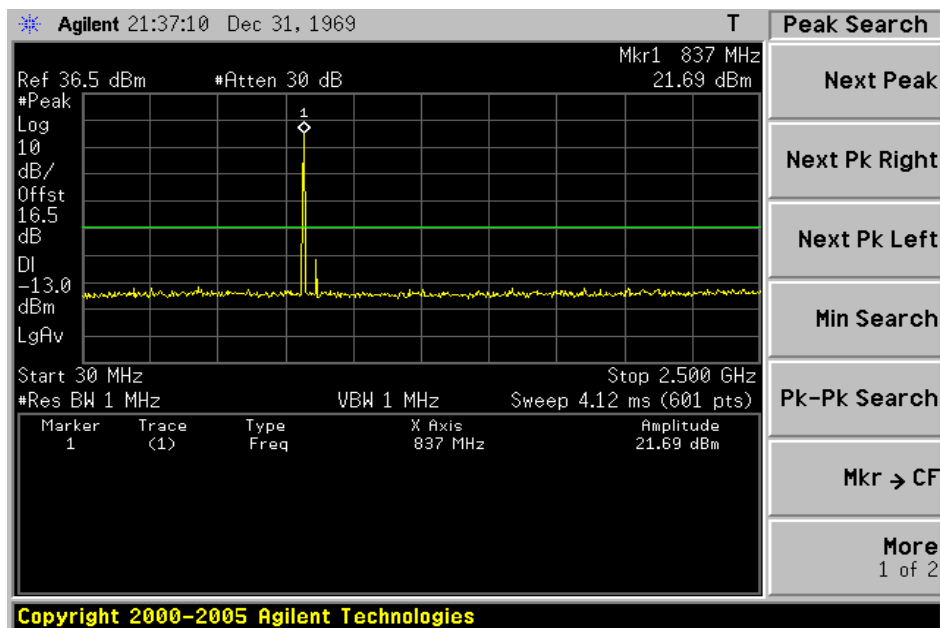
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Figure 9-77: Out of Band emission at antenna terminals – CDMA 2000 EVDO Cellular Channel Mid



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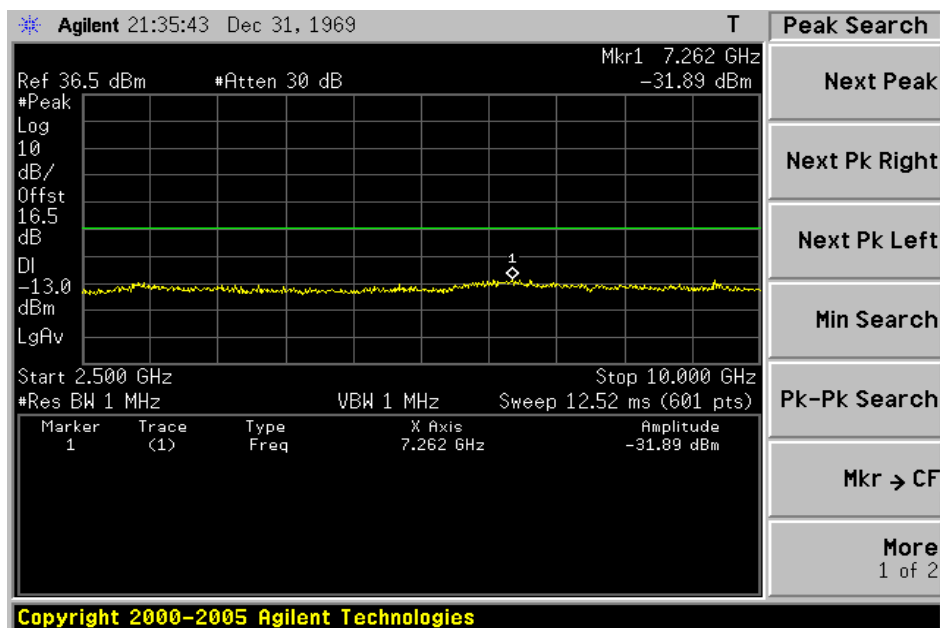
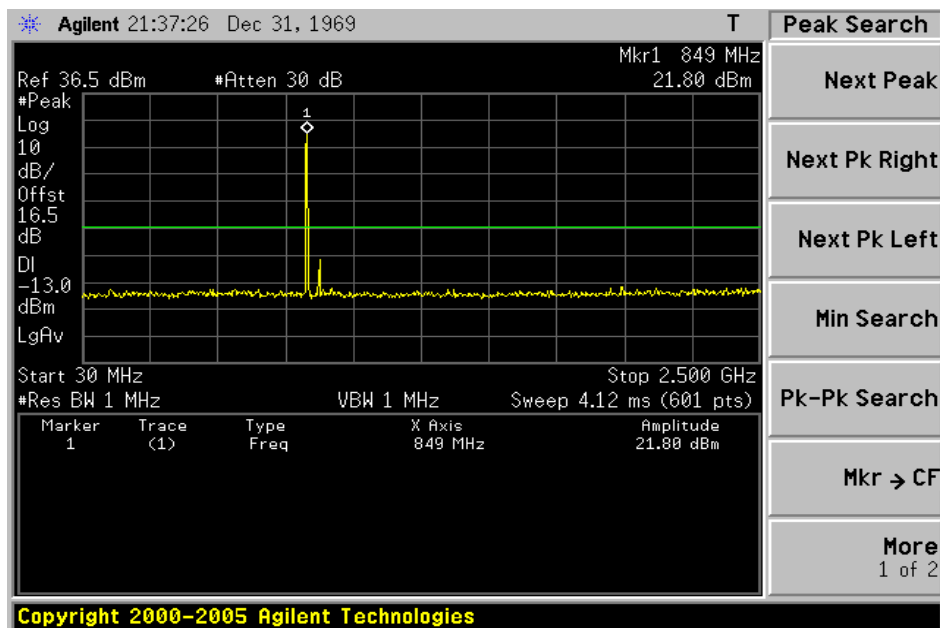
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**Figure 9-78: Out of Band emission at antenna terminals – CDMA 2000 EVDO Cellular Channel Highest**



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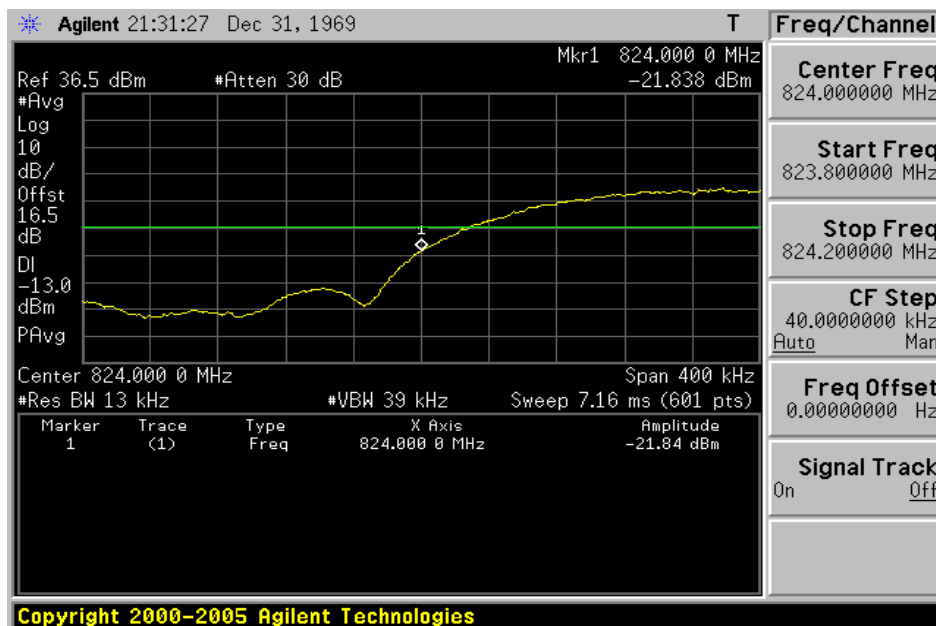
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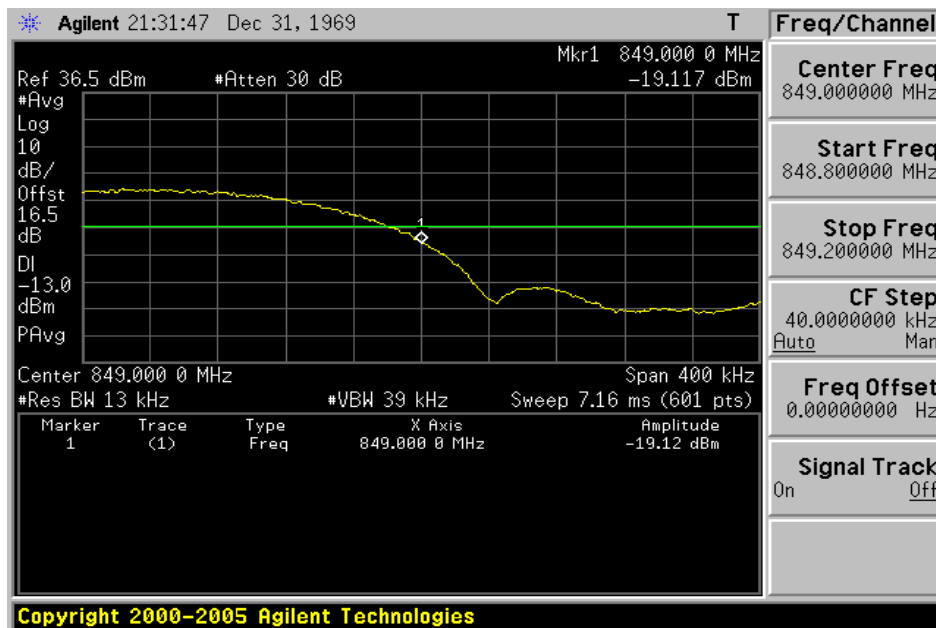
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**Figure 9-79: Band edge emission at antenna terminals – CDMA 2000 EVDO Cellular Channel  
Lowest**



**Figure 9-80: Band edge emission at antenna terminals – CDMA 2000 EVDO Cellular Channel  
Highest**



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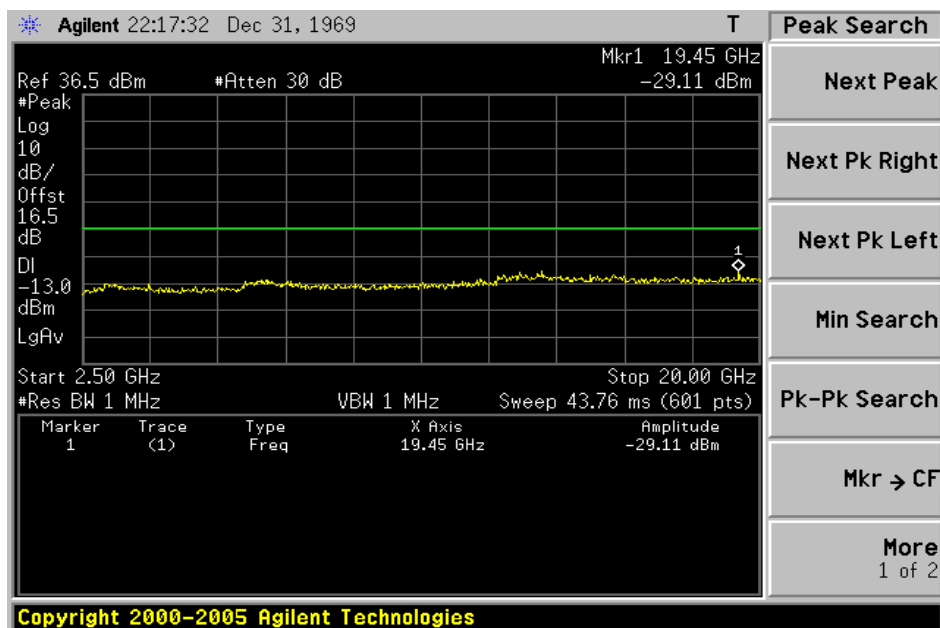
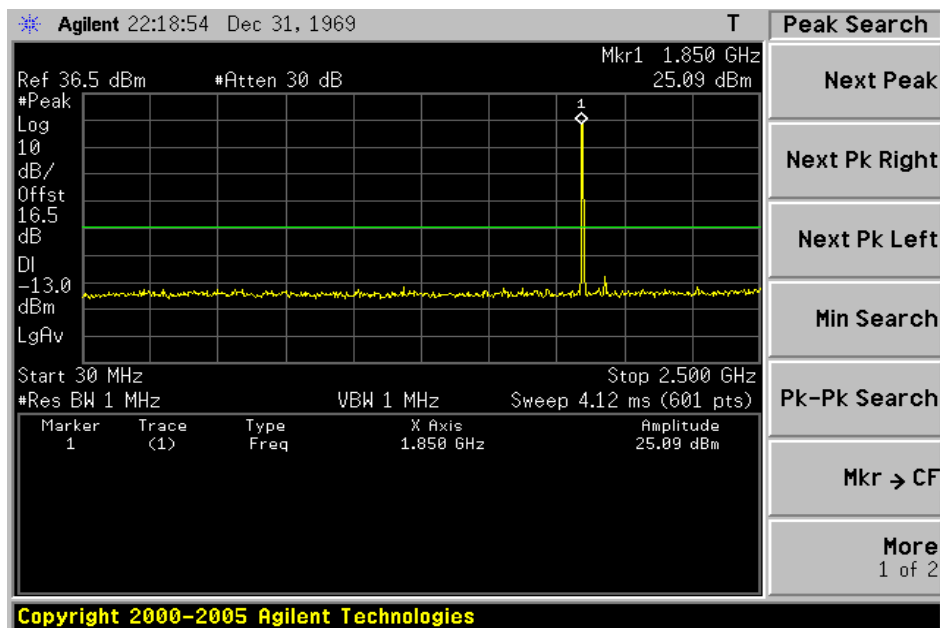
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Figure 9-81: Out of Band emission at antenna terminals – CDMA 2000 EVDO PCS Channel Low-est



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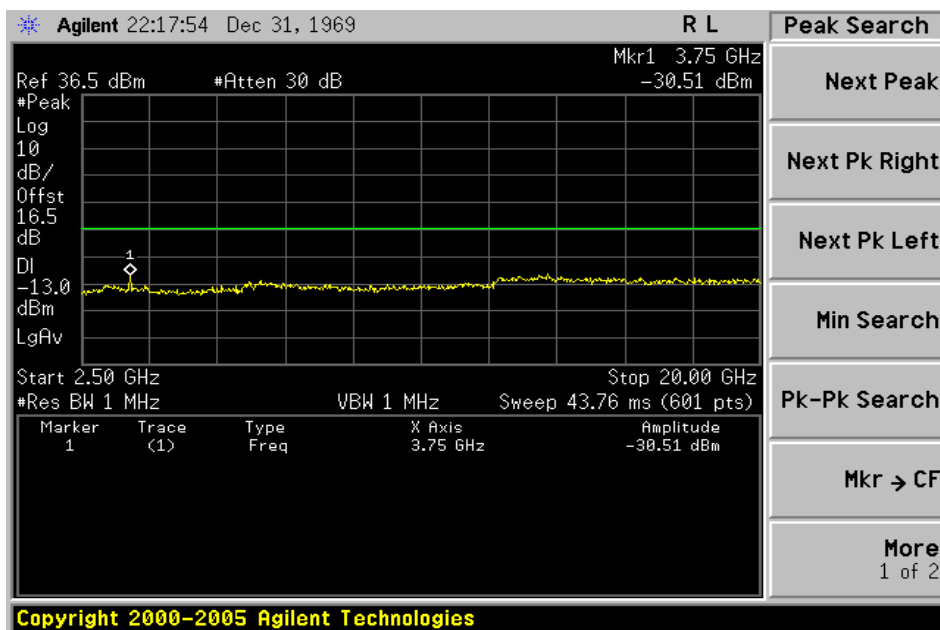
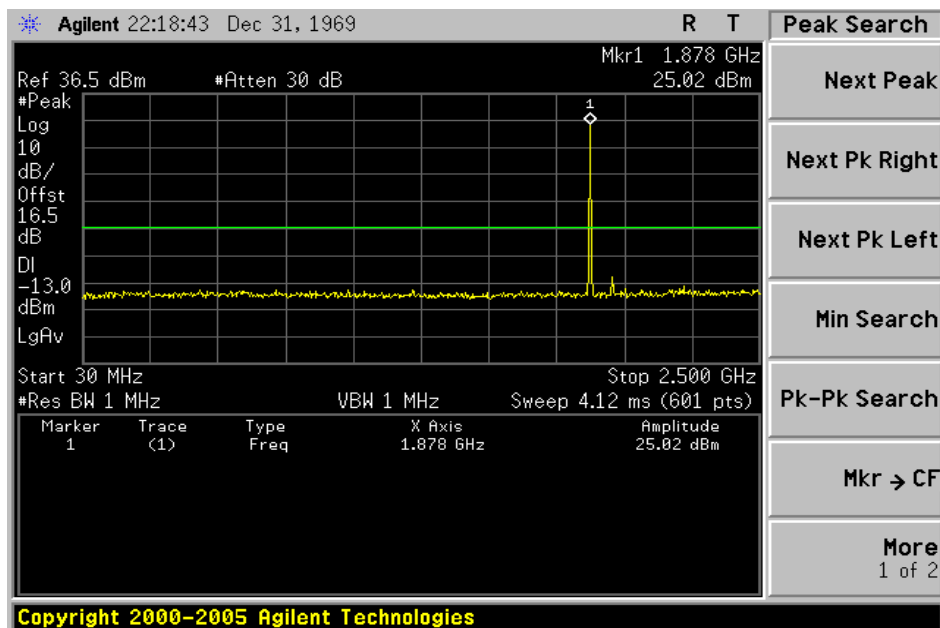
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Figure 9-82: Out of Band emission at antenna terminals – CDMA 2000 EVDO PCS Channel Mid



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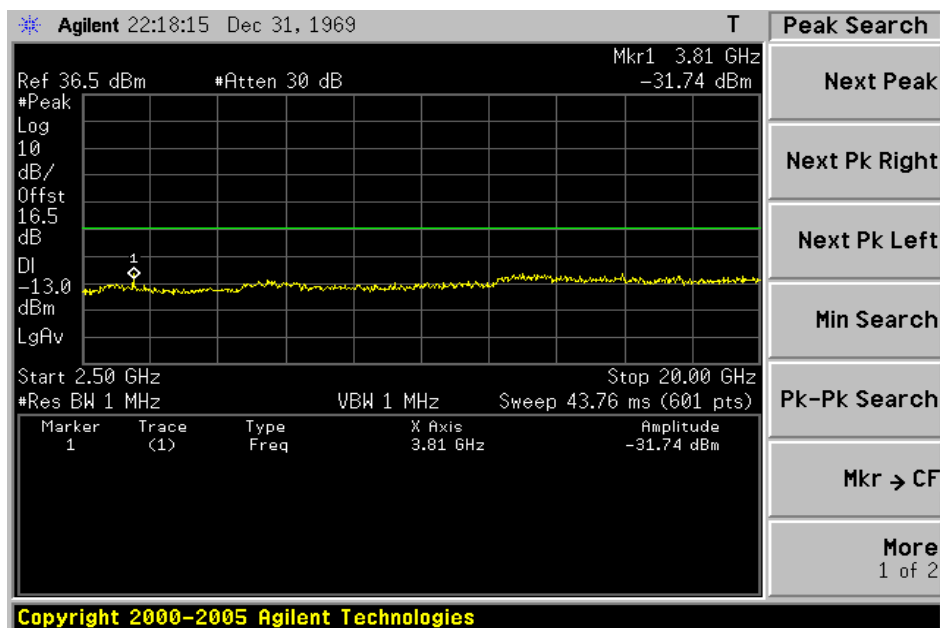
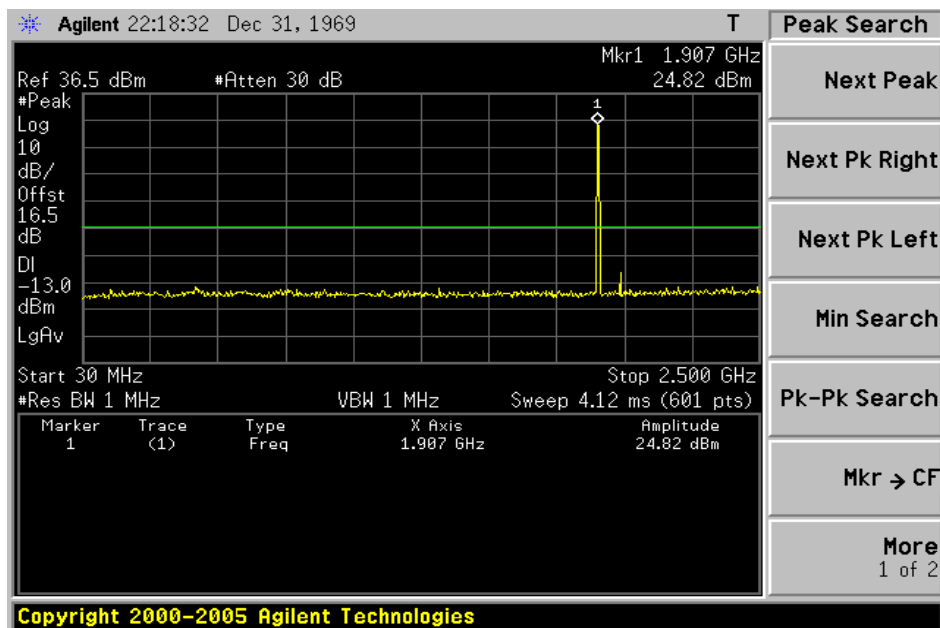
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Figure 9-83: Out of Band emission at antenna terminals – CDMA 2000 EVDO PCS Channel Highest



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Figure 9-84: Band edge emission at antenna terminals – CDMA 2000 EVDO PCS Channel Lowest

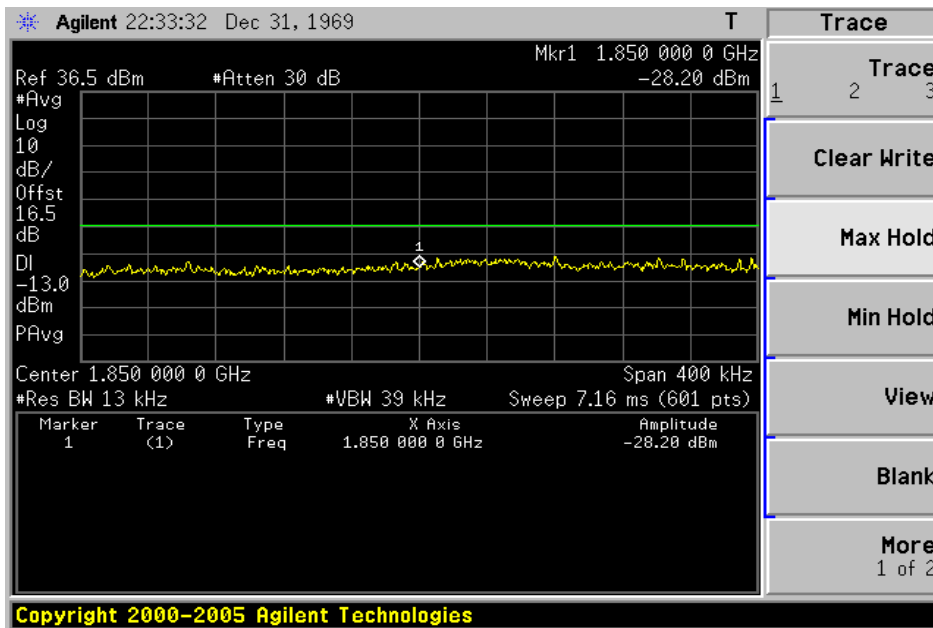
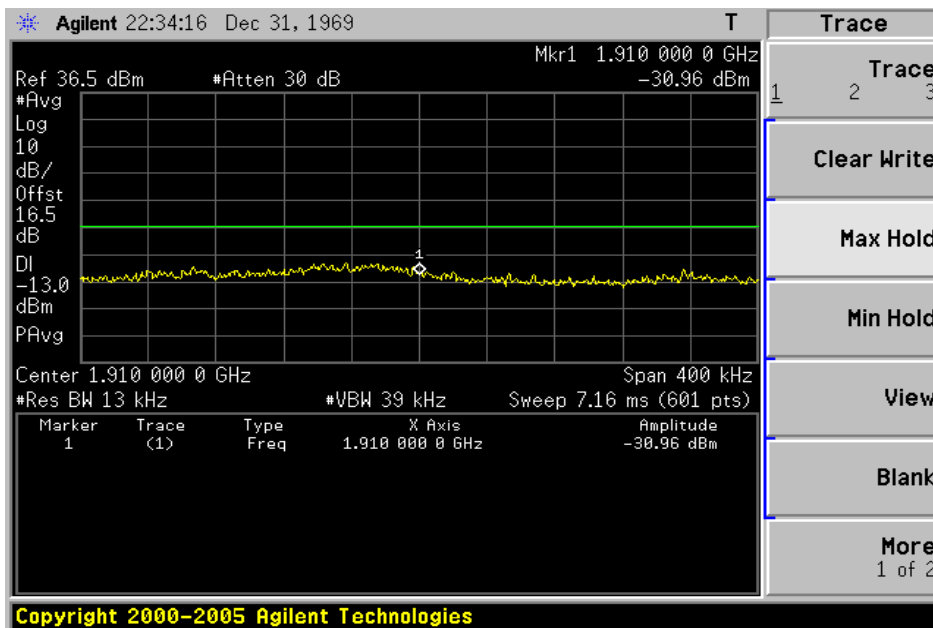


Figure 9-85: Band edge emission at antenna terminals – CDMA 2000 EVDO PCS Channel Highest



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## **10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT (TX)**

### **10.1. Standard Applicable:**

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(g) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

According to RSS-132 §4.5

#### **4.5.1 Out-of-block Emissions**

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

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

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

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

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

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According to RSS-133 §6.5

#### 6.5.1 Out-of-Block Emissions

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

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

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

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

#### 6.5.2 Out-of-Sub-band Emissions

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

According to RSS-139 §6.5

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

(ii) After the first 1.0 MHz outside the equipment's operating frequency block, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in watts) by at least  $43 + 10 \log_{10}(P)$ , dB.

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### 10.2. EUT Setup (Block Diagram of Configuration):

Refer to section 6.2 in this report

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### 10.3. Measurement Procedure:

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

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

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

ERP= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain(dBi) – Cable Loss (dB)

### 10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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### 10.5. Measurement Result:

Refer to attach tabular data sheets.

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

Operation Mode : TX CH Low Mode  
 Fundamental Frequency : 824.20 MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
165.80	37.25	V	-61.46	-7.81	1.63	-70.90	-13.00	-57.90
248.25	34.51	V	-65.45	-7.89	1.98	-75.31	-13.00	-62.31
328.76	36.61	V	-61.28	-7.76	2.28	-71.32	-13.00	-58.32
553.80	32.41	V	-59.86	-7.76	2.97	-70.59	-13.00	-57.59
655.65	32.93	V	-56.05	-7.82	3.17	-67.04	-13.00	-54.04
951.50	33.45	V	-51.14	-8.00	3.88	-63.02	-13.00	-50.02
1648.40	57.24	V	-47.34	9.29	5.23	-43.28	-13.00	-30.28
2472.60	51.23	V	-49.78	10.08	6.53	-46.23	-13.00	-33.23
3296.80	37.05	V	-61.82	12.17	7.71	-57.37	-13.00	-44.37
4121.00	---	V		12.61	8.86		-13.00	
4945.20	---	V		12.65	9.74		-13.00	
5769.40	---	V		13.55	10.54		-13.00	
6593.60	---	V		12.05	11.30		-13.00	
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

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

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Operation Mode : TX CH Low Mode  
Fundamental Frequency : 824.20 MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
163.86	42.54	H	-56.31	-7.81	1.62	-65.74	-13.00	-52.74
222.06	36.20	H	-64.38	-7.86	1.83	-74.07	-13.00	-61.07
328.76	35.07	H	-62.33	-7.76	2.28	-72.36	-13.00	-59.36
551.86	32.48	H	-59.20	-7.76	2.96	-69.93	-13.00	-56.93
697.36	32.74	H	-55.00	-7.86	3.28	-66.14	-13.00	-53.14
970.90	33.31	H	-50.77	-8.00	3.94	-62.71	-13.00	-49.71
1648.40	55.41	H	-48.99	9.29	5.23	-44.93	-13.00	-31.93
2472.60	51.49	H	-49.42	10.08	6.53	-45.87	-13.00	-32.87
3296.80	42.79	H	-56.31	12.17	7.71	-51.85	-13.00	-38.85
4121.00	---	H		12.61	8.86		-13.00	
4945.20	---	H		12.65	9.74		-13.00	
5769.40	---	H		13.55	10.54		-13.00	
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Mode : TX CH Mid Mode  
 Fundamental Frequency : 836.60 MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
165.80	38.69	V	-60.02	-7.81	1.63	-69.46	-13.00	-56.46
248.25	36.23	V	-63.73	-7.89	1.98	-73.59	-13.00	-60.59
328.76	35.66	V	-62.23	-7.76	2.28	-72.27	-13.00	-59.27
559.62	32.40	V	-59.53	-7.77	2.97	-70.27	-13.00	-57.27
658.56	33.08	V	-55.93	-7.82	3.18	-66.93	-13.00	-53.93
914.64	33.69	V	-51.02	-7.96	3.82	-62.80	-13.00	-49.80
1673.20	49.63	V	-54.93	9.36	5.27	-50.83	-13.00	-37.83
2509.80	48.08	V	-52.70	10.09	6.58	-49.20	-13.00	-36.20
3346.40	41.56	V	-57.30	12.28	7.79	-52.82	-13.00	-39.82
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

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

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Member of SGS Group

Operation Mode : TX CH Mid Mode  
 Fundamental Frequency : 836.60 MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	42.05	H	-56.57	-7.81	1.62	-65.99	-13.00	-52.99
222.06	36.38	H	-64.20	-7.86	1.83	-73.89	-13.00	-60.89
330.70	34.79	H	-62.59	-7.75	2.29	-72.62	-13.00	-59.62
400.54	35.90	H	-60.50	-7.66	2.51	-70.67	-13.00	-57.67
697.36	32.95	H	-54.79	-7.86	3.28	-65.93	-13.00	-52.93
914.64	33.76	H	-50.90	-7.96	3.82	-62.68	-13.00	-49.68
1673.20	47.47	H	-56.91	9.36	5.27	-52.81	-13.00	-39.81
2509.80	46.74	H	-53.96	10.09	6.58	-50.46	-13.00	-37.46
3346.40	41.97	H	-57.09	12.28	7.79	-52.61	-13.00	-39.61
4183.00	---	H		12.62	8.93		-13.00	
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

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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Operation Mode : TX CH High Mode  
 Fundamental Frequency : 848.80 MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
167.74	37.64	V	-61.24	-7.81	1.63	-70.69	-13.00	-57.69
243.40	35.70	V	-64.44	-7.88	1.95	-74.28	-13.00	-61.28
328.76	35.75	V	-62.14	-7.76	2.28	-72.18	-13.00	-59.18
454.86	36.61	V	-57.34	-7.70	2.67	-67.72	-13.00	-54.72
613.94	33.79	V	-55.60	-7.80	3.07	-66.46	-13.00	-53.46
970.90	33.60	V	-50.54	-8.00	3.94	-62.48	-13.00	-49.48
1697.60	50.23	V	-54.31	9.44	5.31	-50.18	-13.00	-37.18
2546.40	46.13	V	-54.51	10.20	6.63	-50.95	-13.00	-37.95
3395.20	41.06	V	-57.79	12.38	7.87	-53.28	-13.00	-40.28
4244.00	---	V		12.63	9.00		-13.00	
5092.80	---	V		12.74	9.88		-13.00	
5941.60	---	V		13.81	10.70		-13.00	
6790.40	---	V		11.86	11.48		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
8488.00	---	V		11.70	12.91		-13.00	

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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Operation Mode : TX CH High Mode  
Fundamental Frequency : 848.80 MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
163.86	42.02	H	-56.83	-7.81	1.62	-66.26	-13.00	-53.26
228.85	38.16	H	-62.09	-7.87	1.87	-71.83	-13.00	-58.83
328.76	33.85	H	-63.55	-7.76	2.28	-73.58	-13.00	-60.58
400.54	35.10	H	-61.30	-7.66	2.51	-71.47	-13.00	-58.47
658.56	32.85	H	-56.51	-7.82	3.18	-67.51	-13.00	-54.51
932.10	34.44	H	-50.00	-7.98	3.85	-61.83	-13.00	-48.83
1697.60	53.48	H	-50.87	9.44	5.31	-46.74	-13.00	-33.74
2546.40	47.48	H	-53.12	10.20	6.63	-49.56	-13.00	-36.56
3395.20	39.58	H	-59.45	12.38	7.87	-54.93	-13.00	-41.93
4244.00	---	H		12.63	9.00		-13.00	
5092.80	---	H		12.74	9.88		-13.00	
5941.60	---	H		13.81	10.70		-13.00	
6790.40	---	H		11.86	11.48		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

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

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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Mode : TX CH Low Mode  
 Fundamental Frequency : 1850.20MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
165.80	38.04	V	-60.67	-7.81	1.63	-70.11	-13.00	-57.11
241.46	34.08	V	-66.13	-7.88	1.94	-75.96	-13.00	-62.96
328.76	36.10	V	-61.79	-7.76	2.28	-71.83	-13.00	-58.83
555.74	32.59	V	-59.56	-7.76	2.97	-70.30	-13.00	-57.30
655.65	32.56	V	-56.42	-7.82	3.17	-67.41	-13.00	-54.41
924.34	33.30	V	-51.39	-7.97	3.83	-63.19	-13.00	-50.19
3700.40	38.88	V	-59.05	12.61	8.31	-54.75	-13.00	-41.75
5550.60	38.14	V	-52.70	13.23	10.33	-49.80	-13.00	-36.80
7400.80	---	V		11.50	12.08		-13.00	
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	
18502.00	---	V		18.75	10.40		-13.00	

**Remark:**

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

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Operation Mode : TX CH Low Mode  
 Fundamental Frequency : 1850.20MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	43.10	H	-55.52	-7.81	1.62	-64.94	-13.00	-51.94
219.15	35.83	H	-64.89	-7.86	1.82	-74.57	-13.00	-61.57
328.76	34.95	H	-62.45	-7.76	2.28	-72.48	-13.00	-59.48
400.54	35.43	H	-60.97	-7.66	2.51	-71.14	-13.00	-58.14
458.74	33.52	H	-60.29	-7.70	2.68	-70.68	-13.00	-57.68
641.10	32.67	H	-57.22	-7.81	3.14	-68.17	-13.00	-55.17
3700.40	43.98	H	-54.06	12.61	8.31	-49.76	-13.00	-36.76
5550.60	---	H		13.23	10.33		-13.00	
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

Remark:

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

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f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 1880MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
175.50	38.49	V	-61.09	-7.82	1.65	-70.56	-13.00	-57.56
250.19	34.37	V	-65.51	-7.89	1.99	-75.39	-13.00	-62.39
306.45	36.26	V	-61.91	-7.88	2.19	-71.99	-13.00	-58.99
338.46	36.68	V	-61.09	-7.70	2.32	-71.11	-13.00	-58.11
536.34	33.57	V	-59.37	-7.75	2.92	-70.04	-13.00	-57.04
655.65	32.87	V	-56.11	-7.82	3.17	-67.10	-13.00	-54.10
3760.00	40.67	V	-56.99	12.60	8.39	-52.77	-13.00	-39.77
5640.00	---	V		13.36	10.41		-13.00	
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

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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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 1880MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
158.04	41.20	H	-57.19	-7.81	1.61	-66.61	-13.00	-53.61
219.15	36.29	H	-64.43	-7.86	1.82	-74.11	-13.00	-61.11
262.80	35.58	H	-63.24	-7.90	2.04	-73.17	-13.00	-60.17
328.76	35.61	H	-61.79	-7.76	2.28	-71.82	-13.00	-58.82
400.54	35.40	H	-61.00	-7.66	2.51	-71.17	-13.00	-58.17
636.25	32.57	H	-57.42	-7.80	3.12	-68.35	-13.00	-55.35
3760.00	38.73	H	-59.04	12.60	8.39	-54.83	-13.00	-41.83
5640.00	---	H		13.36	10.41		-13.00	
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1909.8 MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
167.74	37.65	V	-61.23	-7.81	1.63	-70.68	-13.00	-57.68
199.75	41.74	V	-60.02	-7.84	1.71	-69.57	-13.00	-56.57
233.70	40.46	V	-60.05	-7.87	1.90	-69.82	-13.00	-56.82
274.44	38.21	V	-60.88	-7.90	2.08	-70.86	-13.00	-57.86
328.76	35.22	V	-62.67	-7.76	2.28	-72.71	-13.00	-59.71
652.74	32.41	V	-56.54	-7.81	3.17	-67.52	-13.00	-54.52
3819.60	42.21	V	-55.18	12.60	8.47	-51.05	-13.00	-38.05
5729.40	---	V		13.49	10.50		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
9549.00	---	V		11.95	13.74		-13.00	
11458.80	---	V		12.17	15.43		-13.00	
13368.60	---	V		12.97	16.82		-13.00	
15278.40	---	V		15.00	18.29		-13.00	
17188.20	---	V		14.47	19.52		-13.00	
19098.00	---	V		18.66	20.78		-13.00	

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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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1909.8 MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	42.61	H	-56.01	-7.81	1.62	-65.43	-13.00	-52.43
219.15	36.30	H	-64.42	-7.86	1.82	-74.10	-13.00	-61.10
328.76	35.16	H	-62.24	-7.76	2.28	-72.27	-13.00	-59.27
400.54	34.16	H	-62.24	-7.66	2.51	-72.41	-13.00	-59.41
461.65	33.00	H	-60.79	-7.70	2.69	-71.18	-13.00	-58.18
548.95	32.17	H	-59.59	-7.76	2.96	-70.30	-13.00	-57.30
3819.60	42.92	H	-54.59	12.60	8.47	-50.45	-13.00	-37.45
5729.40	---	H		13.49	10.50		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
9549.00	---	H		11.95	13.74		-13.00	
11458.80	---	H		12.17	15.43		-13.00	
13368.60	---	H		12.97	16.82		-13.00	
15278.40	---	H		15.00	18.29		-13.00	
17188.20	---	H		14.47	19.52		-13.00	
19098.00	---	H		18.66	20.78		-13.00	

Remark:

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- 2 Remark " --- " means that the emission level is too low to be measured
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**Radiated Spurious Emission Measurement Result: HSDPA II Mode**

Operation Mode : TX CH Low Mode  
 Fundamental Frequency : 1852.4MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
165.80	37.44	V	-61.27	-7.81	1.63	-70.71	-13.00	-57.71
248.25	36.02	V	-63.94	-7.89	1.98	-73.80	-13.00	-60.80
328.76	35.27	V	-62.62	-7.76	2.28	-72.66	-13.00	-59.66
458.74	33.24	V	-60.73	-7.70	2.68	-71.11	-13.00	-58.11
548.95	32.78	V	-59.74	-7.76	2.96	-70.46	-13.00	-57.46
658.56	32.77	V	-56.24	-7.82	3.18	-67.24	-13.00	-54.24
3704.80	38.01	V	-59.90	12.61	8.31	-55.61	-13.00	-42.61
5557.20	---	V		13.24	10.33		-13.00	
7409.60	---	V		11.49	12.09		-13.00	
9262.00	---	V		11.92	13.51		-13.00	
11114.40	---	V		11.68	15.12		-13.00	
12966.80	---	V		13.62	16.61		-13.00	
14819.20	---	V		12.83	17.96		-13.00	
16671.60	---	V		15.87	19.15		-13.00	
18524.00	---	V		18.74	10.86		-13.00	

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

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Operation Mode : TX CH Low Mode  
Fundamental Frequency : 1852.4MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	42.73	H	-55.89	-7.81	1.62	-65.31	-13.00	-52.31
241.46	34.86	H	-64.78	-7.88	1.94	-74.60	-13.00	-61.60
301.60	35.53	H	-62.12	-7.91	2.18	-72.20	-13.00	-59.20
328.76	35.85	H	-61.55	-7.76	2.28	-71.58	-13.00	-58.58
400.54	35.27	H	-61.13	-7.66	2.51	-71.30	-13.00	-58.30
679.90	32.88	H	-55.59	-7.84	3.24	-66.67	-13.00	-53.67
3704.80	39.14	H	-58.88	12.61	8.31	-54.59	-13.00	-41.59
5557.20	---	H		13.24	10.33		-13.00	
7409.60	---	H		11.49	12.09		-13.00	
9262.00	---	H		11.92	13.51		-13.00	
11114.40	---	H		11.68	15.12		-13.00	
12966.80	---	H		13.62	16.61		-13.00	
14819.20	---	H		12.83	17.96		-13.00	
16671.60	---	H		15.87	19.15		-13.00	
18524.00	---	H		18.74	10.86		-13.00	

Remark:

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Fundamental Frequency : 1880MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
245.34	34.36	V	-65.71	-7.89	1.96	-75.56	-13.00	-62.56
262.80	35.87	V	-63.60	-7.90	2.04	-73.53	-13.00	-60.53
328.76	35.22	V	-62.67	-7.76	2.28	-72.71	-13.00	-59.71
400.54	33.42	V	-62.06	-7.66	2.51	-72.24	-13.00	-59.24
548.95	33.52	V	-59.00	-7.76	2.96	-69.72	-13.00	-56.72
636.25	32.98	V	-56.12	-7.80	3.12	-67.05	-13.00	-54.05
3760.00	37.71	V	-59.95	12.60	8.39	-55.73	-13.00	-42.73
5640.00	---	V		13.36	10.41		-13.00	
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

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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No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan/台北縣五股工業區五工路134號

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Member of SGS Group

Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 1880MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	42.81	H	-55.81	-7.81	1.62	-65.23	-13.00	-52.23
219.15	36.07	H	-64.65	-7.86	1.82	-74.33	-13.00	-61.33
306.45	34.87	H	-62.73	-7.88	2.19	-72.81	-13.00	-59.81
328.76	35.56	H	-61.84	-7.76	2.28	-71.87	-13.00	-58.87
400.54	33.65	H	-62.75	-7.66	2.51	-72.92	-13.00	-59.92
536.34	33.16	H	-59.03	-7.75	2.92	-69.70	-13.00	-56.70
3760.00	34.83	H	-62.94	12.60	8.39	-58.73	-13.00	-45.73
5640.00	---	H		13.36	10.41		-13.00	
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

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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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1907.6MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
199.75	39.78	V	-61.98	-7.84	1.71	-71.53	-13.00	-58.53
228.85	39.49	V	-61.20	-7.87	1.87	-70.94	-13.00	-57.94
301.60	35.25	V	-62.98	-7.91	2.18	-73.07	-13.00	-60.07
328.76	35.11	V	-62.78	-7.76	2.28	-72.82	-13.00	-59.82
400.54	34.34	V	-61.14	-7.66	2.51	-71.32	-13.00	-58.32
648.86	32.45	V	-56.48	-7.81	3.16	-67.45	-13.00	-54.45
3815.20	39.65	V	-57.76	12.60	8.46	-53.62	-13.00	-40.62
5722.80	---	V		13.48	10.49		-13.00	
7630.40	---	V		11.41	12.27		-13.00	
9538.00	---	V		11.95	13.73		-13.00	
11445.60	---	V		12.15	15.42		-13.00	
13353.20	---	V		13.00	16.81		-13.00	
15260.80	---	V		14.91	18.28		-13.00	
17168.40	---	V		14.53	19.50		-13.00	
19076.00	---	V		18.65	20.76		-13.00	

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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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1907.6MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	42.20	H	-56.42	-7.81	1.62	-65.84	-13.00	-52.84
212.36	36.66	H	-64.39	-7.85	1.78	-74.02	-13.00	-61.02
328.76	35.33	H	-62.07	-7.76	2.28	-72.10	-13.00	-59.10
400.54	34.84	H	-61.56	-7.66	2.51	-71.73	-13.00	-58.73
551.86	33.35	H	-58.33	-7.76	2.96	-69.06	-13.00	-56.06
655.65	32.99	H	-56.49	-7.82	3.17	-67.48	-13.00	-54.48
3815.20	42.11	H	-55.42	12.60	8.46	-51.28	-13.00	-38.28
5722.80	---	H		13.48	10.49		-13.00	
7630.40	---	H		11.41	12.27		-13.00	
9538.00	---	H		11.95	13.73		-13.00	
11445.60	---	H		12.15	15.42		-13.00	
13353.20	---	H		13.00	16.81		-13.00	
15260.80	---	H		14.91	18.28		-13.00	
17168.40	---	H		14.53	19.50		-13.00	
19076.00	---	H		18.65	20.76		-13.00	

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: HSUPA IV Mode**

Operation Mode : TX CH Low Mode  
 Fundamental Frequency : 1712.40 MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
190.05	38.32	V	-62.89	-7.83	1.54	-72.26	-13.00	-59.26
228.85	30.08	V	-71.21	-7.87	1.81	-80.89	-13.00	-67.89
335.55	29.50	V	-68.91	-7.72	2.33	-78.97	-13.00	-65.97
532.46	29.42	V	-64.18	-7.75	2.74	-74.66	-13.00	-61.66
694.45	28.74	V	-61.31	-7.85	3.29	-72.45	-13.00	-59.45
958.29	28.24	V	-56.89	-8.00	3.96	-68.85	-13.00	-55.85
3424.80	37.37	V	-65.16	12.45	7.35	-60.07	-13.00	-47.07
5137.20	---	V		12.79	9.36		-13.00	
6849.60	---	V		11.80	10.94		-13.00	
8562.00	---	V		11.73	12.66		-13.00	
10274.40	---	V		11.85	13.80		-13.00	
11986.80	---	V		13.15	15.25		-13.00	
13699.20	---	V		12.32	16.55		-13.00	
15411.60	---	V		15.69	18.06		-13.00	
17124.00	---	V		14.68	19.79		-13.00	

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

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Operation Mode : TX CH Low Mode  
Fundamental Frequency : 1712.40 MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
187.14	34.00	H	-66.97	-7.83	1.54	-76.34	-13.00	-63.34
248.25	29.93	H	-71.00	-7.89	1.97	-80.86	-13.00	-67.86
327.79	33.01	H	-65.24	-7.76	2.26	-75.27	-13.00	-62.27
551.86	28.58	H	-63.66	-7.76	2.75	-74.17	-13.00	-61.17
675.05	29.47	H	-60.55	-7.84	3.16	-71.55	-13.00	-58.55
956.35	28.55	H	-56.38	-8.00	3.96	-68.33	-13.00	-55.33
3424.80	36.36	H	-65.90	12.45	7.35	-60.81	-13.00	-47.81
5137.20	---	H		12.79	9.36		-13.00	
6849.60	---	H		11.80	10.94		-13.00	
8562.00	---	H		11.73	12.66		-13.00	
10274.40	---	H		11.85	13.80		-13.00	
11986.80	---	H		13.15	15.25		-13.00	
13699.20	---	H		12.32	16.55		-13.00	
15411.60	---	H		15.69	18.06		-13.00	
17124.00	---	H		14.68	19.79		-13.00	

Remark:

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

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 1732.60 MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
187.14	38.20	V	-62.75	-7.83	1.54	-72.11	-13.00	-59.11
228.85	30.06	V	-71.23	-7.87	1.81	-80.91	-13.00	-67.91
321.00	29.60	V	-69.29	-7.80	2.19	-79.29	-13.00	-66.29
542.16	28.60	V	-64.69	-7.75	2.74	-75.19	-13.00	-62.19
663.41	29.33	V	-60.98	-7.82	3.09	-71.89	-13.00	-58.89
919.49	28.69	V	-57.28	-7.97	3.87	-69.12	-13.00	-56.12
3465.20	37.64	V	-64.87	12.53	7.38	-59.72	-13.00	-46.72
5197.80	---	V		12.85	9.41		-13.00	
6930.40	---	V		11.72	11.05		-13.00	
8663.00	---	V		11.77	12.74		-13.00	
10395.60	---	V		11.75	13.95		-13.00	
12128.20	---	V		13.35	15.32		-13.00	
13860.80	---	V		11.98	16.77		-13.00	
15593.40	---	V		16.35	18.21		-13.00	
17326.00	---	V		14.02	19.68		-13.00	

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 Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

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Operation Mode : TX CH Mid Mode  
 Fundamental Frequency : 1732.60 MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
175.50	32.69	H	-67.53	-7.82	1.52	-76.87	-13.00	-63.87
241.46	29.69	H	-71.36	-7.88	1.91	-81.16	-13.00	-68.16
328.76	33.98	H	-64.23	-7.76	2.27	-74.25	-13.00	-61.25
534.40	28.74	H	-64.03	-7.75	2.74	-74.51	-13.00	-61.51
663.41	29.21	H	-60.95	-7.82	3.09	-71.86	-13.00	-58.86
959.26	28.96	H	-55.94	-8.00	3.96	-67.90	-13.00	-54.90
3465.20	38.48	H	-63.75	12.53	7.38	-58.60	-13.00	-45.60
5197.80	---	H		12.85	9.41		-13.00	
6930.40	---	H		11.72	11.05		-13.00	
8663.00	---	H		11.77	12.74		-13.00	
10395.60	---	H		11.75	13.95		-13.00	
12128.20	---	H		13.35	15.32		-13.00	
13860.80	---	H		11.98	16.77		-13.00	
15593.40	---	H		16.35	18.21		-13.00	
17326.00	---	H		14.02	19.68		-13.00	

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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Operation Mode : TX CH High Mode  
 Fundamental Frequency : 1752.60 MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
182.29	38.39	V	-62.12	-7.83	1.53	-71.47	-13.00	-58.47
236.61	29.22	V	-71.85	-7.88	1.87	-81.60	-13.00	-68.60
330.70	28.58	V	-69.99	-7.75	2.29	-80.03	-13.00	-67.03
449.04	29.83	V	-64.82	-7.70	2.56	-75.08	-13.00	-62.08
657.59	28.63	V	-61.73	-7.82	3.05	-72.60	-13.00	-59.60
973.81	28.36	V	-56.36	-8.00	3.97	-68.32	-13.00	-55.32
3505.20	40.69	V	-61.79	12.61	7.42	-56.59	-13.00	-43.59
5257.80	---	V		12.91	9.46		-13.00	
7010.40	---	V		11.65	11.14		-13.00	
8763.00	---	V		11.80	12.82		-13.00	
10515.60	---	V		11.66	14.08		-13.00	
12268.20	---	V		13.54	15.39		-13.00	
14020.80	---	V		11.67	16.95		-13.00	
15773.40	---	V		16.75	18.27		-13.00	
17526.00	---	V		13.21	19.62		-13.00	

Remark:

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

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1752.60 MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
177.44	33.52	H	-66.83	-7.82	1.52	-76.17	-13.00	-63.17
233.70	29.86	H	-71.33	-7.87	1.85	-81.05	-13.00	-68.05
328.76	32.36	H	-65.85	-7.76	2.27	-75.87	-13.00	-62.87
548.95	28.52	H	-63.77	-7.76	2.74	-74.27	-13.00	-61.27
684.75	28.49	H	-61.41	-7.84	3.22	-72.48	-13.00	-59.48
920.46	28.79	H	-56.67	-7.97	3.87	-68.52	-13.00	-55.52
3505.20	37.93	H	-64.25	12.61	7.42	-59.06	-13.00	-46.06
5257.80	---	H		12.91	9.46		-13.00	
7010.40	---	H		11.65	11.14		-13.00	
8763.00	---	H		11.80	12.82		-13.00	
10515.60	---	H		11.66	14.08		-13.00	
12268.20	---	H		13.54	15.39		-13.00	
14020.80	---	H		11.67	16.95		-13.00	
15773.40	---	H		16.75	18.27		-13.00	
17526.00	---	H		13.21	19.62		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark " --- " means that the emission level is too low to be measured
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**Radiated Spurious Emission Measurement Result: HSDPA V Mode**

Operation Mode : TX CH Low Mode  
 Fundamental Frequency : 826.4MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
165.80	37.21	V	-61.50	-9.95	1.63	-73.08	-13.00	-60.08
253.10	42.05	V	-57.74	-10.03	2.00	-69.77	-13.00	-56.77
287.05	38.24	V	-60.43	-10.05	2.12	-72.61	-13.00	-59.61
328.76	34.52	V	-63.37	-9.90	2.28	-75.55	-13.00	-62.55
555.74	32.84	V	-59.31	-9.90	2.97	-72.19	-13.00	-59.19
652.74	33.14	V	-55.81	-9.95	3.17	-68.93	-13.00	-55.93
1652.80	48.45	V	-56.13	9.30	5.23	-52.06	-13.00	-39.06
2479.20	---	V		10.07	6.54		-13.00	
3305.60	---	V		12.19	7.73		-13.00	
4132.00	---	V		12.62	8.87		-13.00	
4958.40	---	V		12.65	9.75		-13.00	
5784.80	---	V		13.58	10.55		-13.00	
6611.20	---	V		12.03	11.31		-13.00	
7437.60	---	V		11.48	12.12		-13.00	
8264.00	---	V		11.50	12.73		-13.00	

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

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Operation Mode : TX CH Low Mode  
 Fundamental Frequency : 826.4MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	41.87	H	-56.75	-9.95	1.62	-68.31	-13.00	-55.31
253.10	35.29	H	-63.83	-10.03	2.00	-75.87	-13.00	-62.87
306.45	34.07	H	-63.53	-10.02	2.19	-75.75	-13.00	-62.75
328.76	34.63	H	-62.77	-9.90	2.28	-74.94	-13.00	-61.94
400.54	33.43	H	-62.97	-9.80	2.51	-75.28	-13.00	-62.28
524.70	37.96	H	-54.64	-9.88	2.88	-67.39	-13.00	-54.39
1652.80	53.95	H	-50.45	9.30	5.23	-46.38	-13.00	-33.38
2479.20	---	H		10.07	6.54		-13.00	
3305.60	---	H		12.19	7.73		-13.00	
4132.00	---	H		12.62	8.87		-13.00	
4958.40	---	H		12.65	9.75		-13.00	
5784.80	---	H		13.58	10.55		-13.00	
6611.20	---	H		12.03	11.31		-13.00	
7437.60	---	H		11.48	12.12		-13.00	
8264.00	---	H		11.50	12.73		-13.00	

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

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 836.6MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
167.74	37.31	V	-61.57	-9.95	1.63	-73.16	-13.00	-60.16
245.34	34.76	V	-65.31	-10.03	1.96	-77.30	-13.00	-64.30
296.75	36.88	V	-61.48	-10.06	2.16	-73.69	-13.00	-60.69
328.76	34.67	V	-63.22	-9.90	2.28	-75.40	-13.00	-62.40
461.65	33.18	V	-60.80	-9.84	2.69	-73.34	-13.00	-60.34
536.34	33.17	V	-59.77	-9.89	2.92	-72.58	-13.00	-59.58
1673.20	44.49	V	-60.07	9.36	5.27	-55.97	-13.00	-42.97
2509.80	---	V		10.09	6.58		-13.00	
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

Remark:

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Fundamental Frequency : 836.6MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	42.35	H	-56.27	-9.95	1.62	-67.83	-13.00	-54.83
262.80	35.22	H	-63.60	-10.04	2.04	-75.67	-13.00	-62.67
328.76	34.51	H	-62.89	-9.90	2.28	-75.06	-13.00	-62.06
400.54	35.10	H	-61.30	-9.80	2.51	-73.61	-13.00	-60.61
660.50	32.92	H	-56.36	-9.96	3.19	-69.51	-13.00	-56.51
755.56	34.91	H	-60.89	-10.01	3.48	-74.38	-13.00	-61.38
1673.20	52.99	H	-51.39	9.36	5.27	-47.29	-13.00	-34.29
2509.80	---	H		10.09	6.58		-13.00	
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
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8366.00	---	H		11.59	12.81		-13.00	

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 846.6MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
165.80	36.76	V	-61.95	-9.95	1.63	-73.53	-13.00	-60.53
253.10	36.28	V	-63.51	-10.03	2.00	-75.54	-13.00	-62.54
277.35	36.14	V	-62.85	-10.05	2.09	-74.99	-13.00	-61.99
299.66	36.55	V	-61.71	-10.06	2.17	-73.94	-13.00	-60.94
328.76	35.44	V	-62.45	-9.90	2.28	-74.63	-13.00	-61.63
629.46	34.50	V	-54.69	-9.94	3.11	-67.74	-13.00	-54.74
1693.20	43.74	V	-60.80	9.42	5.30	-56.68	-13.00	-43.68
2539.80	---	V		10.18	6.62		-13.00	
3386.40	---	V		12.36	7.85		-13.00	
4233.00	---	V		12.63	8.99		-13.00	
5079.60	---	V		12.73	9.87		-13.00	
5926.20	---	V		13.79	10.69		-13.00	
6772.80	---	V		11.87	11.47		-13.00	
7619.40	---	V		11.41	12.26		-13.00	
8466.00	---	V		11.68	12.89		-13.00	

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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Operation Mode : TX CH High Mode  
Fundamental Frequency : 846.6MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
160.95	41.85	H	-56.77	-9.95	1.62	-68.33	-13.00	-55.33
202.66	38.17	H	-63.35	-9.98	1.72	-75.06	-13.00	-62.06
253.10	35.33	H	-63.79	-10.03	2.00	-75.83	-13.00	-62.83
328.76	35.16	H	-62.24	-9.90	2.28	-74.41	-13.00	-61.41
400.54	34.92	H	-61.48	-9.80	2.51	-73.79	-13.00	-60.79
524.70	40.81	H	-51.79	-9.88	2.88	-64.54	-13.00	-51.54
1693.20	48.10	H	-56.25	9.42	5.30	-52.13	-13.00	-39.13
2539.80	---	H		10.18	6.62		-13.00	
3386.40	---	H		12.36	7.85		-13.00	
4233.00	---	H		12.63	8.99		-13.00	
5079.60	---	H		12.73	9.87		-13.00	
5926.20	---	H		13.79	10.69		-13.00	
6772.80	---	H		11.87	11.47		-13.00	
7619.40	---	H		11.41	12.26		-13.00	
8466.00	---	H		11.68	12.89		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
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- 3 The result basic equation calculation is as follows:
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**Radiated Spurious Emission Measurement Result: CDMA 2000 Cellular Mode**

Operation Mode : TX CH Low Mode  
 Fundamental Frequency : 824.70MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
165.80	36.34	V	-62.37	-7.81	1.63	-71.81	-13.00	-58.81
202.66	38.22	V	-63.46	-7.84	1.72	-73.03	-13.00	-60.03
303.54	35.87	V	-62.34	-7.90	2.18	-72.42	-13.00	-59.42
361.74	32.42	V	-64.71	-7.64	2.40	-74.75	-13.00	-61.75
594.54	33.48	V	-56.41	-7.79	3.02	-67.22	-13.00	-54.22
749.74	34.11	V	-53.01	-7.87	3.47	-64.35	-13.00	-51.35
1649.40	47.82	V	-56.76	9.29	5.23	-52.70	-13.00	-39.70
2474.10	---	V		10.08	6.53		-13.00	
3298.80	---	V		12.17	7.72		-13.00	
4123.50	---	V		12.61	8.86		-13.00	
4948.20	---	V		12.65	9.74		-13.00	
5772.90	---	V		13.56	10.54		-13.00	
6597.60	---	V		12.04	11.30		-13.00	
7422.30	---	V		11.49	12.10		-13.00	
8247.00	---	V		11.48	12.72		-13.00	

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

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Operation Mode : TX CH Low Mode  
Fundamental Frequency : 824.70MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
156.10	39.67	H	-58.57	-7.80	1.60	-67.98	-13.00	-54.98
199.75	39.91	H	-61.72	-7.84	1.71	-71.27	-13.00	-58.27
328.76	36.99	H	-60.41	-7.76	2.28	-70.44	-13.00	-57.44
435.46	36.40	H	-58.23	-7.69	2.62	-68.53	-13.00	-55.53
495.60	33.45	H	-60.04	-7.72	2.79	-70.54	-13.00	-57.54
747.80	35.21	H	-61.36	-7.87	3.46	-72.69	-13.00	-59.69
1649.40	58.31	H	-46.09	9.29	5.23	-42.03	-13.00	-29.03
2474.10	41.37	H	-59.53	10.08	6.53	-55.99	-13.00	-42.99
3298.80	---	H		12.17	7.72		-13.00	
4123.50	---	H		12.61	8.86		-13.00	
4948.20	---	H		12.65	9.74		-13.00	
5772.90	---	H		13.56	10.54		-13.00	
6597.60	---	H		12.04	11.30		-13.00	
7422.30	---	H		11.49	12.10		-13.00	
8247.00	---	H		11.48	12.72		-13.00	

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

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 836.52MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
167.74	37.84	V	-61.04	-7.81	1.63	-70.49	-13.00	-57.49
257.95	38.61	V	-61.02	-7.89	2.02	-70.93	-13.00	-57.93
289.96	35.22	V	-63.36	-7.91	2.13	-73.41	-13.00	-60.41
342.34	35.51	V	-62.21	-7.68	2.33	-72.23	-13.00	-59.23
652.74	33.68	V	-55.27	-7.81	3.17	-66.25	-13.00	-53.25
742.95	36.55	V	-50.89	-7.87	3.44	-62.20	-13.00	-49.20
1673.04	48.18	V	-56.38	9.36	5.27	-52.29	-13.00	-39.29
2509.56	37.51	V	-63.27	10.09	6.58	-59.77	-13.00	-46.77
3346.08	---	V		12.27	7.79		-13.00	
4182.60	---	V		12.62	8.93		-13.00	
5019.12	---	V		12.67	9.81		-13.00	
5855.64	---	V		13.68	10.62		-13.00	
6692.16	---	V		11.95	11.39		-13.00	
7528.68	---	V		11.45	12.20		-13.00	
8365.20	---	V		11.59	12.81		-13.00	

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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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 836.52MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
158.04	40.45	H	-57.94	-7.81	1.61	-67.36	-13.00	-54.36
199.75	39.58	H	-62.05	-7.84	1.71	-71.60	-13.00	-58.60
253.10	34.48	H	-64.64	-7.89	2.00	-74.54	-13.00	-61.54
328.76	35.32	H	-62.08	-7.76	2.28	-72.11	-13.00	-59.11
461.65	33.07	H	-60.72	-7.70	2.69	-71.11	-13.00	-58.11
752.65	35.73	H	-60.69	-7.87	3.48	-72.03	-13.00	-59.03
1673.04	54.89	H	-49.49	9.36	5.27	-45.39	-13.00	-32.39
2509.56	40.60	H	-60.10	10.09	6.58	-56.60	-13.00	-43.60
3346.08	---	H		12.27	7.79		-13.00	
4182.60	---	H		12.62	8.93		-13.00	
5019.12	---	H		12.67	9.81		-13.00	
5855.64	---	H		13.68	10.62		-13.00	
6692.16	---	H		11.95	11.39		-13.00	
7528.68	---	H		11.45	12.20		-13.00	
8365.20	---	H		11.59	12.81		-13.00	

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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Operation Mode : TX CH High Mode  
Fundamental Frequency : 848.31MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
156.10	37.23	V	-60.61	-7.80	1.60	-70.02	-13.00	-57.02
253.10	37.30	V	-62.49	-7.89	2.00	-72.38	-13.00	-59.38
296.75	37.11	V	-61.25	-7.92	2.16	-71.32	-13.00	-58.32
311.30	36.36	V	-61.75	-7.86	2.21	-71.82	-13.00	-58.82
328.76	34.97	V	-62.92	-7.76	2.28	-72.96	-13.00	-59.96
749.74	35.15	V	-51.97	-7.87	3.47	-63.31	-13.00	-50.31
1696.62	47.22	V	-57.32	9.43	5.31	-53.19	-13.00	-40.19
2544.93	---	V		10.19	6.63		-13.00	
3393.24	---	V		12.38	7.86		-13.00	
4241.55	---	V		12.63	9.00		-13.00	
5089.86	---	V		12.74	9.88		-13.00	
5938.17	---	V		13.81	10.70		-13.00	
6786.48	---	V		11.86	11.48		-13.00	
7634.79	---	V		11.41	12.27		-13.00	
8483.10	---	V		11.69	12.91		-13.00	

Remark:

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 848.31MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Safe Margin (dBm)
156.10	40.04	H	-58.20	-7.80	1.60	-67.61	-13.00	-54.61
199.75	38.67	H	-62.96	-7.84	1.71	-72.51	-13.00	-59.51
296.75	35.82	H	-61.94	-7.92	2.16	-72.02	-13.00	-59.02
328.76	36.31	H	-61.09	-7.76	2.28	-71.12	-13.00	-58.12
474.26	34.95	H	-58.73	-7.71	2.73	-69.16	-13.00	-56.16
747.80	35.66	H	-60.91	-7.87	3.46	-72.24	-13.00	-59.24
1696.62	51.45	H	-52.90	9.43	5.31	-48.77	-13.00	-35.77
2544.93	---	H		10.19	6.63		-13.00	
3393.24	---	H		12.38	7.86		-13.00	
4241.55	---	H		12.63	9.00		-13.00	
5089.86	---	H		12.74	9.88		-13.00	
5938.17	---	H		13.81	10.70		-13.00	
6786.48	---	H		11.86	11.48		-13.00	
7634.79	---	H		11.41	12.27		-13.00	
8483.10	---	H		11.69	12.91		-13.00	

Remark:

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

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**Radiated Spurious Emission Measurement Result: CDMA 2000 PCS Mode**

Operation Mode : TX CH Low Mode  
 Fundamental Frequency : 1851.25MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
125.06	39.38	V	-60.22	-7.78	1.48	-69.47	-13.00	-56.47
202.66	41.68	V	-60.00	-7.84	1.72	-69.57	-13.00	-56.57
272.50	38.42	V	-60.73	-7.90	2.07	-70.71	-13.00	-57.71
328.76	35.49	V	-62.40	-7.76	2.28	-72.44	-13.00	-59.44
439.34	32.07	V	-62.19	-7.69	2.63	-72.51	-13.00	-59.51
542.16	32.84	V	-59.91	-7.75	2.93	-70.60	-13.00	-57.60
3702.50	40.28	V	-57.64	12.61	8.31	-53.34	-13.00	-40.34
5553.75	---	V		13.23	10.33		-13.00	
7405.00	---	V		11.50	12.09		-13.00	
9256.25	---	V		11.92	13.50		-13.00	
11107.50	---	V		11.67	15.12		-13.00	
12958.75	---	V		13.62	16.61		-13.00	
14810.00	---	V		12.79	17.96		-13.00	
16661.25	---	V		15.89	19.14		-13.00	
18512.50	---	V		18.75	10.62		-13.00	

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

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Operation Mode : TX CH Low Mode  
Fundamental Frequency : 1851.25MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
154.16	39.30	H	-58.79	-7.80	1.60	-68.20	-13.00	-55.20
199.75	38.91	H	-62.72	-7.84	1.71	-72.27	-13.00	-59.27
328.76	36.31	H	-61.09	-7.76	2.28	-71.12	-13.00	-58.12
458.74	33.33	H	-60.48	-7.70	2.68	-70.87	-13.00	-57.87
662.44	33.42	H	-55.78	-7.82	3.19	-66.79	-13.00	-53.79
745.86	35.31	H	-60.90	-7.87	3.46	-72.22	-13.00	-59.22
3702.50	41.76	H	-56.27	12.61	8.31	-51.98	-13.00	-38.98
5553.75	---	H		13.23	10.33		-13.00	
7405.00	---	H		11.50	12.09		-13.00	
9256.25	---	H		11.92	13.50		-13.00	
11107.50	---	H		11.67	15.12		-13.00	
12958.75	---	H		13.62	16.61		-13.00	
14810.00	---	H		12.79	17.96		-13.00	
16661.25	---	H		15.89	19.14		-13.00	
18512.50	---	H		18.75	10.62		-13.00	

Remark:

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

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 1880MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
158.04	38.03	V	-59.98	-7.81	1.61	-69.40	-13.00	-56.40
238.55	39.39	V	-60.93	-7.88	1.93	-70.74	-13.00	-57.74
284.14	38.93	V	-59.84	-7.91	2.11	-69.86	-13.00	-56.86
301.60	39.23	V	-59.00	-7.91	2.18	-69.09	-13.00	-56.09
328.76	34.88	V	-63.01	-7.76	2.28	-73.05	-13.00	-60.05
621.70	34.52	V	-54.77	-7.80	3.09	-65.65	-13.00	-52.65
3600.00	---	V		12.61	8.17		-13.00	
3762.50	41.00	V	-56.65	12.60	8.39	-52.44	-13.00	-39.44
5400.00	---	V		13.05	10.18		-13.00	
7200.00	---	V		11.57	11.88		-13.00	
9000.00	---	V		11.89	13.32		-13.00	
10800.00	---	V		11.58	14.88		-13.00	
12600.00	---	V		13.81	16.40		-13.00	
14400.00	---	V		11.58	17.59		-13.00	
16200.00	---	V		16.86	18.86		-13.00	
18000.00	---	V		8.87	20.01		-13.00	

Remark:

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

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Operation Mode : TX CH Mid Mode  
 Fundamental Frequency : 1880MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
154.16	39.60	H	-58.49	-7.80	1.60	-67.90	-13.00	-54.90
216.24	41.18	H	-59.68	-7.86	1.80	-69.34	-13.00	-56.34
293.84	39.66	H	-58.19	-7.92	2.15	-68.26	-13.00	-55.26
328.76	35.78	H	-61.62	-7.76	2.28	-71.65	-13.00	-58.65
456.80	33.38	H	-60.45	-7.70	2.68	-70.83	-13.00	-57.83
604.24	32.87	H	-57.75	-7.79	3.04	-68.58	-13.00	-55.58
3600.00	---	H		12.61	8.17		-13.00	
3762.50	38.63	H	-59.13	12.60	8.39	-54.92	-13.00	-41.92
5400.00	---	H		13.05	10.18		-13.00	
7200.00	---	H		11.57	11.88		-13.00	
9000.00	---	H		11.89	13.32		-13.00	
10800.00	---	H		11.58	14.88		-13.00	
12600.00	---	H		13.81	16.40		-13.00	
14400.00	---	H		11.58	17.59		-13.00	
16200.00	---	H		16.86	18.86		-13.00	
18000.00	---	H		8.87	20.01		-13.00	

Remark:

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

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1908.75MHz  
Temperature : 27  
Humidity : 66%

Test Date: Aug. 18, 2011  
Test By: Nick  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
170.65	38.95	V	-60.19	-7.82	1.64	-69.65	-13.00	-56.65
251.16	40.03	V	-59.82	-7.89	1.99	-69.71	-13.00	-56.71
328.76	35.49	V	-62.40	-7.76	2.28	-72.44	-13.00	-59.44
348.16	33.46	V	-64.19	-7.65	2.35	-74.20	-13.00	-61.20
449.04	32.21	V	-61.75	-7.70	2.66	-72.11	-13.00	-59.11
597.45	34.40	V	-55.32	-7.79	3.03	-66.13	-13.00	-53.13
3817.50	41.76	V	-55.64	12.60	8.47	-51.51	-13.00	-38.51
5726.25	---	V		13.49	10.50		-13.00	
7635.00	---	V		11.41	12.27		-13.00	
9543.75	---	V		11.95	13.73		-13.00	
11452.50	---	V		12.16	15.43		-13.00	
13361.25	---	V		12.99	16.82		-13.00	
15270.00	---	V		14.95	18.28		-13.00	
17178.75	---	V		14.50	19.51		-13.00	
19087.50	---	V		18.65	20.77		-13.00	

Remark:

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

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Operation Mode : TX CH High Mode  
 Fundamental Frequency : 1908.75MHz  
 Temperature : 27  
 Humidity : 66%

Test Date: Aug. 18, 2011  
 Test By: Nick  
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
156.10	39.62	H	-58.62	-7.80	1.60	-68.03	-13.00	-55.03
199.75	38.82	H	-62.81	-7.84	1.71	-72.36	-13.00	-59.36
296.75	41.73	H	-56.03	-7.92	2.16	-66.11	-13.00	-53.11
328.76	36.58	H	-60.82	-7.76	2.28	-70.85	-13.00	-57.85
461.65	33.48	H	-60.31	-7.70	2.69	-70.70	-13.00	-57.70
697.36	34.24	H	-53.50	-7.86	3.28	-64.64	-13.00	-51.64
3817.50	43.19	H	-54.32	12.60	8.47	-50.19	-13.00	-37.19
5726.25	---	H		13.49	10.50		-13.00	
7635.00	---	H		11.41	12.27		-13.00	
9543.75	---	H		11.95	13.73		-13.00	
11452.50	---	H		12.16	15.43		-13.00	
13361.25	---	H		12.99	16.82		-13.00	
15270.00	---	H		14.95	18.28		-13.00	
17178.75	---	H		14.50	19.51		-13.00	
19087.50	---	H		18.65	20.77		-13.00	

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

格式化: 項目符號及編號

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

### 11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance:  $\pm 2.5$  ppm for 850 MHz band

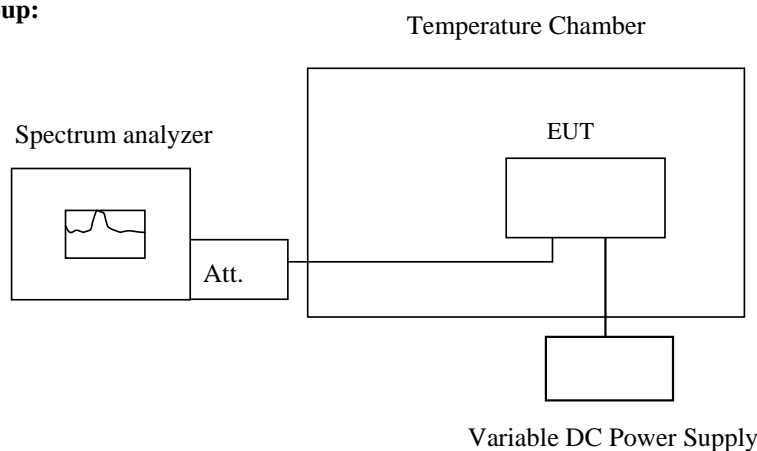
$\pm 2.5$  ppm for 1900 MHz band

$\pm 2.5$  ppm for 1700 MHz band

According to RSS-133 §6.3, RSS-132 §4.3, RSS-139 §6.3

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

### 11.2. Test Set-up:



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

### 11.3. 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.

### 11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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**11.5. Measurement Result:**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature ( )	(MHz)		
110	-30	836.600015	-17.00	2091
110	-20	836.600013	-15.00	2091
110	-10	836.600018	-20.00	2091
110	0	836.600021	-23.00	2091
110	10	836.600009	-11.00	2091
110	20	836.599999	-1.00	2091
110	30	836.599998	0.00	2091
110	40	836.600017	-19.00	2091
110	50	836.600012	-14.00	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz @ 20°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
110	-30	1880.000019	-15.00	4700
110	-20	1880.000015	-11.00	4700
110	-10	1880.000021	-17.00	4700
110	0	1880.000010	-6.00	4700
110	10	1880.000008	-4.00	4700
110	20	1880.000006	-2.00	4700
110	30	1880.000004	0.00	4700
110	40	1880.000013	-9.00	4700
110	50	1880.000015	-11.00	4700

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Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz @ 20°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
110	-30	1879.999993	10.00	4700
110	-20	1879.999981	22.00	4700
110	-10	1879.999995	8.00	4700
110	0	1879.999993	10.00	4700
110	10	1879.999998	5.00	4700
110	20	1880.000006	-3.00	4700
110	30	1880.000003	0.00	4700
110	40	1880.000001	2.00	4700
110	50	1880.000001	2.00	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6 (ARFCN1413) MHz @ 20°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
110	-30	1732.600003	5.00	4700
110	-20	1732.600002	6.00	4700
110	-10	1732.600006	2.00	4700
110	0	1732.600002	6.00	4700
110	10	1732.600009	-1.00	4700
110	20	1732.600001	7.00	4700
110	30	1732.600008	0.00	4700
110	40	1732.600005	3.00	4700
110	50	1732.600001	7.00	4700

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Reference Frequency: WCDMA V Mid Channel 836.6 (ARFCN4183) MHz @ 20°C				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
110	-30	836.599997	-9.00	2091
110	-20	836.599999	-11.00	2091
110	-10	836.599989	-1.00	2091
110	0	836.599996	-8.00	2091
110	10	836.599992	-4.00	2091
110	20	836.599992	-4.00	2091
110	30	836.599988	0.00	2091
110	40	836.599994	-6.00	2091
110	50	836.599987	1.00	2091

Reference Frequency: CDMA 2000 Cellular Mid Channel 836.0 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
110	-30	836.520011	-3.00	2091
110	-20	836.520009	-1.00	2091
110	-10	836.520010	-2.00	2091
110	0	836.520007	1.00	2091
110	10	836.520002	6.00	2091
110	20	836.520008	0.00	2091
110	30	836.520003	5.00	2091
110	40	836.519997	11.00	2091
110	50	836.519999	9.00	2091
110	-30	836.520011	-3.00	2091

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Reference Frequency: CDMA 2000 PCS Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
110	-30	1879.999999	4.00	4700
110	-20	1880.000003	0.00	4700
110	-10	1880.000002	1.00	4700
110	0	1880.000002	1.00	4700
110	10	1880.000001	2.00	4700
110	20	1880.000003	0.00	4700
110	30	1879.999998	5.00	4700
110	40	1879.999999	4.00	4700
110	50	1880.000001	2.00	4700
110	-30	1879.999999	4.00	4700

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

### 12.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance:  $\pm 2.5$  ppm for 850MHz band

$\pm 2.5$  ppm for 1900MHz band

$\pm 2.5$  ppm for 1700MHz band

According to RSS-133 §6.3, RSS-132 §4.3, RSS-139 §6.3

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

### 12.2. Test Set-up:

Refer to section 10.2 in this report

### 12.3. Measurement Procedure:

Set chamber temperature to 27°. 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 ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

### 12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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## 12.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz @ 27				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
126.5	25.00	836.599972	9.00	2091.00
110.0	25.00	836.599981	0.00	2091.00
93.5	25.00	836.599979	2.00	2091.00

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz @ 27				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
126.5	25	1880.000003	8.00	4700.00
110.0	25	1880.000011	0.00	4700.00
93.5	25	1880.000008	3.00	4700.00

Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
126.5	25	1880.000008	4.00	4700.00
110.0	25	1880.000012	0.00	4700.00
93.5	25	1880.000011	1.00	4700.00

Reference Frequency: WCDMA IV Mid Channel 1732.6 (ARFCN1413) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
126.5	25	1732.600002	1.00	4700
110.0	25	1732.600003	0.00	4700
93.5	25	1732.600005	-2.00	4700

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Reference Frequency: WCDMA V Mid Channel 836.6 (ARFCN4183) MHz				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
126.5	25.00	836.599982	4.00	2091.00
110.0	25.00	836.599986	0.00	2091.00
93.5	25.00	836.599992	-6.00	2091.00

Reference Frequency: CDMA 2000 Cellular Mid Channel 836.0 MHz @ 27				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
126.5	25.00	836.520005	1.00	2091.00
110	25.00	836.520006	0.00	2091.00
93.5	25.00	836.520003	3.00	2091.00

Reference Frequency: CDMA 2000 PCS Mid Channel 1880 MHz @ 27				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (°C)	(MHz)		
126.5	25	1880.000004	-2.00	4700.00
110	25	1880.000002	0.00	4700.00
93.5	25	1880.000003	-1.00	4700.00

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### 13. SPURIOUS RADIATED EMISSION TEST (RX)

#### 13.1. Standard Applicable

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

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

According to RSS 133 §6.6 and RSS 139 §6.6, Receiver spurious emissions shall comply with the limits specified in RSS-Gen Issue 3.

#### 13.2. EUT Setup

4. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2003.
5. The EUT was put in the front of the test table. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
6. The spacing between the peripherals was 10 centimeters.
7. External I/O cables were draped along the edge of the test table and bundle when necessary.
8. The host was connected with 120Vac/60Hz power source.

#### 13.3. Measurement Procedure

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

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

Refer to section 6.2 in this report

**13.5. Measurement Equipment Used:**

Refer to section 2.4 in this report

**13.6. Field Strength Calculation**

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

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

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

**13.7. Measurement Result**

Refer to attach tabular data sheets.

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode GPRS 850 CH Low Mode  
 Fundamental Frequency 824.2 MHz  
 Temperature 25  
 Humidity 65 %

Test Date Aug. 18, 2011  
 Test By Nick  
 Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	36.85	-13.73	23.12	43.50	-20.38
255.04	V	Peak	35.98	-13.69	22.29	46.00	-23.71
328.76	V	Peak	35.65	-12.34	23.31	46.00	-22.69
544.10	V	Peak	32.67	-7.73	24.94	46.00	-21.06
668.26	V	Peak	32.91	-5.03	27.88	46.00	-18.12
910.76	V	Peak	34.54	-1.07	33.47	46.00	-12.53
160.95	H	Peak	42.86	-13.45	29.41	43.50	-14.09
241.46	H	Peak	34.50	-14.09	20.41	46.00	-25.59
328.76	H	Peak	35.49	-12.34	23.15	46.00	-22.85
558.65	H	Peak	32.65	-7.38	25.27	46.00	-20.73
610.06	H	Peak	33.62	-5.81	27.81	46.00	-18.19
939.86	H	Peak	34.70	-1.01	33.69	46.00	-12.31

## Remark :

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

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Operation Mode GPRS 850 CH Mid Mode  
Fundamental Frequency 836.6 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
167.74	V	Peak	38.03	-13.85	24.18	43.50	-19.32
248.25	V	Peak	35.07	-13.91	21.16	46.00	-24.84
328.76	V	Peak	35.76	-12.34	23.42	46.00	-22.58
468.44	V	Peak	40.75	-8.55	32.20	46.00	-13.80
662.44	V	Peak	33.14	-5.01	28.13	46.00	-17.87
917.55	V	Peak	34.00	-1.05	32.95	46.00	-13.05
163.86	H	Peak	42.22	-13.63	28.59	43.50	-14.91
222.06	H	Peak	35.60	-14.85	20.75	46.00	-25.25
328.76	H	Peak	35.54	-12.34	23.20	46.00	-22.80
553.80	H	Peak	33.00	-7.53	25.47	46.00	-20.53
639.16	H	Peak	32.94	-5.21	27.73	46.00	-18.27

## Remark :

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

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Operation Mode GPRS 850 CH High Mode  
Fundamental Frequency 848.8 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	37.64	-13.73	23.91	43.50	-19.59
262.80	V	Peak	34.62	-13.61	21.01	46.00	-24.99
328.76	V	Peak	35.04	-12.34	22.70	46.00	-23.30
555.74	V	Peak	32.48	-7.47	25.01	46.00	-20.99
658.56	V	Peak	32.63	-4.98	27.65	46.00	-18.35
901.06	V	Peak	33.68	-1.07	32.61	46.00	-13.39
160.95	H	Peak	41.56	-13.45	28.11	43.50	-15.39
262.80	H	Peak	34.13	-13.61	20.52	46.00	-25.48
328.76	H	Peak	35.16	-12.34	22.82	46.00	-23.18
553.80	H	Peak	32.88	-7.53	25.35	46.00	-20.65
650.80	H	Peak	32.61	-4.96	27.65	46.00	-18.35
901.06	H	Peak	34.31	-1.07	33.24	46.00	-12.76

Remark :

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

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	GPRS 1900 CH Low Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	1850.2 MHz	Test By	Nick
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	37.77	-13.73	24.04	43.50	-19.46
241.46	V	Peak	36.16	-14.09	22.07	46.00	-23.93
299.66	V	Peak	36.71	-13.13	23.58	46.00	-22.42
555.74	V	Peak	32.70	-7.47	25.23	46.00	-20.77
658.56	V	Peak	34.31	-4.98	29.33	46.00	-16.67
946.65	V	Peak	33.72	-1.01	32.71	46.00	-13.29
160.95	H	Peak	40.90	-13.45	27.45	43.50	-16.05
262.80	H	Peak	34.48	-13.61	20.87	46.00	-25.13
328.76	H	Peak	35.91	-12.34	23.57	46.00	-22.43
427.70	H	Peak	34.20	-9.19	25.01	46.00	-20.99
648.86	H	Peak	32.98	-4.97	28.01	46.00	-17.99
912.70	H	Peak	34.29	-1.05	33.24	46.00	-12.76

## Remark :

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Mode GPRS 1900 CH Mid Mode  
Fundamental Frequency 1880 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	37.15	-13.73	23.42	43.50	-20.08
238.55	V	Peak	35.07	-14.18	20.89	46.00	-25.11
328.76	V	Peak	35.21	-12.34	22.87	46.00	-23.13
555.74	V	Peak	33.11	-7.47	25.64	46.00	-20.36
650.80	V	Peak	33.33	-4.96	28.37	46.00	-17.63
968.96	V	Peak	33.35	-0.85	32.50	54.00	-21.50
160.95	H	Peak	40.86	-13.45	27.41	43.50	-16.09
253.10	H	Peak	34.04	-13.70	20.34	46.00	-25.66
328.76	H	Peak	35.02	-12.34	22.68	46.00	-23.32
536.34	H	Peak	32.92	-7.92	25.00	46.00	-21.00
650.80	H	Peak	32.73	-4.96	27.77	46.00	-18.23
904.94	H	Peak	34.24	-1.07	33.17	46.00	-12.83

## Remark :

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

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Operation Mode GPRS 1900 CH High Mode  
Fundamental Frequency 1909.8 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	36.65	-13.73	22.92	43.50	-20.58
267.65	V	Peak	37.88	-13.57	24.31	46.00	-21.69
328.76	V	Peak	34.88	-12.34	22.54	46.00	-23.46
478.14	V	Peak	33.65	-8.56	25.09	46.00	-20.91
681.84	V	Peak	32.86	-4.99	27.87	46.00	-18.13
934.04	V	Peak	34.36	-1.04	33.32	46.00	-12.68
160.95	H	Peak	40.41	-13.45	26.96	43.50	-16.54
233.70	H	Peak	37.36	-14.34	23.02	46.00	-22.98
328.76	H	Peak	35.79	-12.34	23.45	46.00	-22.55
555.74	H	Peak	33.74	-7.47	26.27	46.00	-19.73
658.56	H	Peak	32.35	-4.98	27.37	46.00	-18.63
934.04	H	Peak	33.26	-1.04	32.22	46.00	-13.78

Remark :

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	HSDPA Band II CH Low Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	1852.4 MHz	Test By	Nick
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	36.97	-13.73	23.24	43.50	-20.26
253.10	V	Peak	35.10	-13.70	21.40	46.00	-24.60
328.76	V	Peak	35.34	-12.34	23.00	46.00	-23.00
524.70	V	Peak	34.23	-8.06	26.17	46.00	-19.83
658.56	V	Peak	32.46	-4.98	27.48	46.00	-18.52
934.04	V	Peak	33.66	-1.04	32.62	46.00	-13.38
160.95	H	Peak	41.10	-13.45	27.65	43.50	-15.85
248.25	H	Peak	34.01	-13.91	20.10	46.00	-25.90
328.76	H	Peak	35.13	-12.34	22.79	46.00	-23.21
555.74	H	Peak	32.66	-7.47	25.19	46.00	-20.81
655.65	H	Peak	32.97	-4.97	28.00	46.00	-18.00
922.40	H	Peak	34.05	-1.05	33.00	46.00	-13.00

**Remark :**

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Mode HSDPA Band II CH Mid Mode  
Fundamental Frequency 1880 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	38.29	-13.73	24.56	43.50	-18.94
243.40	V	Peak	35.63	-14.04	21.59	46.00	-24.41
328.76	V	Peak	35.25	-12.34	22.91	46.00	-23.09
539.25	V	Peak	32.98	-7.87	25.11	46.00	-20.89
650.80	V	Peak	33.22	-4.96	28.26	46.00	-17.74
912.70	V	Peak	33.69	-1.05	32.64	46.00	-13.36
160.95	H	Peak	40.52	-13.45	27.07	43.50	-16.43
221.09	H	Peak	35.56	-14.88	20.68	46.00	-25.32
328.76	H	Peak	35.68	-12.34	23.34	46.00	-22.66
551.86	H	Peak	32.76	-7.59	25.17	46.00	-20.83
648.86	H	Peak	33.05	-4.97	28.08	46.00	-17.92
904.94	H	Peak	33.69	-1.07	32.62	46.00	-13.38

Remark :

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

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Operation Mode HSDPA Band II CH High Mode  
Fundamental Frequency 1907.6 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
167.74	V	Peak	37.69	-13.85	23.84	43.50	-19.66
251.16	V	Peak	34.35	-13.72	20.63	46.00	-25.37
330.70	V	Peak	35.64	-12.22	23.42	46.00	-22.58
551.86	V	Peak	33.12	-7.59	25.53	46.00	-20.47
643.04	V	Peak	32.70	-5.14	27.56	46.00	-18.44
907.82	V	Peak	48.53	-1.07	47.46	46.00	1.46
160.95	H	Peak	40.96	-13.45	27.51	43.50	-15.99
262.80	H	Peak	34.74	-13.61	21.13	46.00	-24.87
328.76	H	Peak	35.86	-12.34	23.52	46.00	-22.48
461.65	H	Peak	33.59	-8.61	24.98	46.00	-21.02
662.44	H	Peak	33.19	-5.01	28.18	46.00	-17.82
898.15	H	Peak	34.00	-1.09	32.91	46.00	-13.09

Remark :

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

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	HSUPA Band IV CH Low Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	1712.4 MHz	Test By	Nick
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
248.25	V	Peak	33.65	-13.91	19.74	46.00	-26.26
284.14	V	Peak	30.15	-13.28	16.87	46.00	-29.13
410.24	V	Peak	29.00	-9.64	19.36	46.00	-26.64
527.61	V	Peak	29.84	-8.04	21.80	46.00	-24.20
677.96	V	Peak	28.83	-4.98	23.85	46.00	-22.15
966.05	V	Peak	28.44	-0.86	27.58	54.00	-26.42
180.35	H	Peak	34.72	-14.55	20.17	43.50	-23.33
257.95	H	Peak	28.45	-13.66	14.79	46.00	-31.21
328.76	H	Peak	33.32	-12.34	20.98	46.00	-25.02
516.94	H	Peak	29.02	-8.17	20.85	46.00	-25.15
616.85	H	Peak	29.81	-5.68	24.13	46.00	-21.87
963.14	H	Peak	28.58	-0.92	27.66	54.00	-26.34

**Remark :**

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Mode HSUPA Band IV CH Mid Mode  
Fundamental Frequency 1732.6 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
236.61	V	Peak	29.94	-14.25	15.69	46.00	-30.31
398.60	V	Peak	29.10	-10.05	19.05	46.00	-26.95
449.04	V	Peak	29.60	-8.61	20.99	46.00	-25.01
536.34	V	Peak	29.84	-7.92	21.92	46.00	-24.08
653.71	V	Peak	28.87	-4.97	23.90	46.00	-22.10
958.29	V	Peak	30.10	-0.95	29.15	46.00	-16.85
183.26	H	Peak	33.85	-14.72	19.13	43.50	-24.37
264.74	H	Peak	28.90	-13.59	15.31	46.00	-30.69
439.34	H	Peak	29.29	-8.80	20.49	46.00	-25.51
527.61	H	Peak	29.17	-8.04	21.13	46.00	-24.87
660.50	H	Peak	28.91	-4.99	23.92	46.00	-22.08
966.05	H	Peak	28.23	-0.86	27.37	54.00	-26.63

Remark :

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

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Operation Mode HSUPA Band IV CH High Mode  
Fundamental Frequency 1752.6 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
178.41	V	Peak	37.85	-14.44	23.41	43.50	-20.09
225.94	V	Peak	31.42	-14.61	16.81	46.00	-29.19
321.00	V	Peak	29.66	-12.53	17.13	46.00	-28.87
450.01	V	Peak	29.83	-8.60	21.23	46.00	-24.77
618.79	V	Peak	29.72	-5.64	24.08	46.00	-21.92
967.99	V	Peak	28.45	-0.85	27.60	54.00	-26.40
183.26	H	Peak	34.11	-14.72	19.39	43.50	-24.11
250.19	H	Peak	29.03	-13.74	15.29	46.00	-30.71
442.25	H	Peak	29.12	-8.74	20.38	46.00	-25.62
552.76	H	Peak	28.93	-8.09	20.84	46.00	-25.16
675.05	H	Peak	28.74	-4.97	23.77	46.00	-22.23
983.51	H	Peak	29.13	-0.75	28.38	54.00	-25.62

## Remark :

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

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	HSDPA Band V CH Low Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	826.40 MHz	Test By	Nick
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	37.26	-13.73	23.53	43.50	-19.97
262.80	V	Peak	34.45	-13.61	20.84	46.00	-25.16
284.14	V	Peak	40.25	-13.28	26.97	46.00	-19.03
559.62	V	Peak	32.23	-7.35	24.88	46.00	-21.12
697.36	V	Peak	33.07	-5.05	28.02	46.00	-17.98
907.85	V	Peak	34.01	-1.07	32.94	46.00	-13.06
163.86	H	Peak	41.48	-13.63	27.85	43.50	-15.65
222.06	H	Peak	36.45	-14.85	21.60	46.00	-24.40
328.76	H	Peak	35.32	-12.34	22.98	46.00	-23.02
524.70	H	Peak	34.38	-8.06	26.32	46.00	-19.68
643.04	H	Peak	32.93	-5.14	27.79	46.00	-18.21
903.00	H	Peak	33.59	-1.08	32.51	46.00	-13.49

## Remark :

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

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Operation Mode HSDPA Band V CH Mid Mode  
Fundamental Frequency 836.60 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	38.21	-13.73	24.48	43.50	-19.02
253.10	V	Peak	33.85	-13.70	20.15	46.00	-25.85
328.76	V	Peak	35.73	-12.34	23.39	46.00	-22.61
548.95	V	Peak	32.75	-7.66	25.09	46.00	-20.91
652.74	V	Peak	33.43	-4.96	28.47	46.00	-17.53
910.76	V	Peak	33.65	-1.07	32.58	46.00	-13.42
160.95	H	Peak	40.62	-13.45	27.17	43.50	-16.33
222.06	H	Peak	35.45	-14.85	20.60	46.00	-25.40
328.76	H	Peak	35.49	-12.34	23.15	46.00	-22.85
468.44	H	Peak	35.36	-8.55	26.81	46.00	-19.19
648.86	H	Peak	33.13	-4.97	28.16	46.00	-17.84
904.94	H	Peak	33.75	-1.07	32.68	46.00	-13.32

Remark :

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

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Operation Mode HSDPA Band V CH High Mode  
Fundamental Frequency 846.60 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	37.06	-13.73	23.33	43.50	-20.17
255.04	V	Peak	34.12	-13.69	20.43	46.00	-25.57
328.76	V	Peak	35.53	-12.34	23.19	46.00	-22.81
558.65	V	Peak	32.53	-7.38	25.15	46.00	-20.85
668.26	V	Peak	32.74	-5.03	27.71	46.00	-18.29
917.55	V	Peak	34.48	-1.05	33.43	46.00	-12.57
160.95	H	Peak	40.21	-13.45	26.76	43.50	-16.74
262.80	H	Peak	34.29	-13.61	20.68	46.00	-25.32
328.76	H	Peak	36.20	-12.34	23.86	46.00	-22.14
555.74	H	Peak	32.80	-7.47	25.33	46.00	-20.67
645.95	H	Peak	32.85	-5.08	27.77	46.00	-18.23
907.85	H	Peak	34.16	-1.07	33.09	46.00	-12.91

## Remark :

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

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	CDMA 2000 Cellular CH Low Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	824.70MHz	Test By	Nick
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	37.81	-13.73	24.08	43.50	-19.42
248.25	V	Peak	33.76	-13.91	19.85	46.00	-26.15
306.45	V	Peak	35.32	-12.87	22.45	46.00	-23.55
542.16	V	Peak	32.68	-7.75	24.93	46.00	-21.07
650.80	V	Peak	33.46	-4.96	28.50	46.00	-17.50
959.26	V	Peak	34.20	-0.95	33.25	46.00	-12.75
160.95	H	Peak	42.12	-13.45	28.67	43.50	-14.83
221.09	H	Peak	35.29	-14.88	20.41	46.00	-25.59
328.76	H	Peak	33.85	-12.34	21.51	46.00	-24.49
558.65	H	Peak	32.81	-7.38	25.43	46.00	-20.57
658.56	H	Peak	33.18	-4.98	28.20	46.00	-17.80
914.64	H	Peak	33.62	-1.04	32.58	46.00	-13.42

## Remark :

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

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Operation Mode CDMA 2000 Cellular CH Mid Mode  
Fundamental Frequency 836.52MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
165.80	V	Peak	37.44	-13.73	23.71	43.50	-19.79
264.74	V	Peak	33.42	-13.59	19.83	46.00	-26.17
293.84	V	Peak	36.44	-13.19	23.25	46.00	-22.75
544.10	V	Peak	33.28	-7.73	25.55	46.00	-20.45
648.86	V	Peak	33.03	-4.97	28.06	46.00	-17.94
901.06	V	Peak	35.08	-1.07	34.01	46.00	-11.99
158.04	H	Peak	41.49	-13.28	28.21	43.50	-15.29
224.00	H	Peak	35.16	-14.68	20.48	46.00	-25.52
328.76	H	Peak	35.21	-12.34	22.87	46.00	-23.13
553.80	H	Peak	32.98	-7.53	25.45	46.00	-20.55
645.95	H	Peak	32.73	-5.08	27.65	46.00	-18.35
907.85	H	Peak	34.39	-1.07	33.32	46.00	-12.68

Remark :

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

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Operation Mode	CDMA 2000 Cellular CH High Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	848.31MHz	Test By	Nick
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
175.50	V	Peak	38.46	-14.43	24.03	43.50	-19.47
202.66	V	Peak	36.26	-15.79	20.47	43.50	-23.03
284.14	V	Peak	33.92	-13.50	20.42	46.00	-25.58
451.95	V	Peak	33.20	-8.97	24.23	46.00	-21.77
650.80	V	Peak	33.09	-5.37	27.72	46.00	-18.28
749.74	V	Peak	34.04	-4.70	29.34	46.00	-16.66
160.95	H	Peak	42.22	-13.67	28.55	43.50	-14.95
245.34	H	Peak	36.03	-14.10	21.93	46.00	-24.07
357.86	H	Peak	33.43	-11.83	21.60	46.00	-24.40
454.86	H	Peak	33.21	-8.98	24.23	46.00	-21.77
641.10	H	Peak	33.58	-5.58	28.00	46.00	-18.00
747.80	H	Peak	33.73	-4.72	29.01	46.00	-16.99

Remark :

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

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	CDMA 2000 PCS CH Low Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	1851.25MHz	Test By	Nick
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
173.56	V	Peak	38.68	-14.33	24.35	43.50	-19.15
306.45	V	Peak	36.90	-13.14	23.76	46.00	-22.24
328.76	V	Peak	35.62	-12.61	23.01	46.00	-22.99
551.86	V	Peak	33.89	-8.09	25.80	46.00	-20.20
600.36	V	Peak	33.73	-6.42	27.31	46.00	-18.69
747.80	V	Peak	34.69	-4.72	29.97	46.00	-16.03
160.95	H	Peak	41.93	-13.67	28.26	43.50	-15.24
289.96	H	Peak	33.54	-13.44	20.10	46.00	-25.90
359.80	H	Peak	33.08	-11.68	21.40	46.00	-24.60
456.80	H	Peak	34.49	-8.97	25.52	46.00	-20.48
694.45	H	Peak	33.28	-5.45	27.83	46.00	-18.17
752.65	H	Peak	33.76	-4.64	29.12	46.00	-16.88

## Remark :

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

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Operation Mode CDMA 2000 PCS CH Mid Mode  
Fundamental Frequency 1880MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
167.74	V	Peak	38.03	-13.85	24.18	43.50	-19.32
204.60	V	Peak	37.34	-15.45	21.89	43.50	-21.61
284.14	V	Peak	34.79	-13.28	21.51	46.00	-24.49
328.76	V	Peak	34.71	-12.34	22.37	46.00	-23.63
471.35	V	Peak	32.77	-8.55	24.22	46.00	-21.78
747.80	V	Peak	34.36	-4.32	30.04	46.00	-15.96
160.95	H	Peak	42.03	-13.67	28.36	43.50	-15.14
299.66	H	Peak	33.88	-13.35	20.53	46.00	-25.47
451.95	H	Peak	32.86	-8.97	23.89	46.00	-22.11
516.94	H	Peak	34.21	-8.63	25.58	46.00	-20.42
602.30	H	Peak	34.19	-6.38	27.81	46.00	-18.19
752.65	H	Peak	33.81	-4.64	29.17	46.00	-16.83

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/AV detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
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Operation Mode CDMA 2000 PCS CH High Mode  
Fundamental Frequency 1908.75MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
175.50	V	Peak	38.57	-14.43	24.14	43.50	-19.36
204.60	V	Peak	38.56	-15.73	22.83	43.50	-20.67
330.70	V	Peak	33.60	-12.57	21.03	46.00	-24.97
471.35	V	Peak	33.34	-8.94	24.40	46.00	-21.60
650.80	V	Peak	33.49	-5.37	28.12	46.00	-17.88
747.80	V	Peak	33.73	-4.72	29.01	46.00	-16.99
163.86	H	Peak	42.22	-13.85	28.37	43.50	-15.13
284.14	H	Peak	34.44	-13.50	20.94	46.00	-25.06
367.56	H	Peak	33.83	-11.43	22.40	46.00	-23.60
458.74	H	Peak	33.39	-8.98	24.41	46.00	-21.59
668.26	H	Peak	33.14	-5.44	27.70	46.00	-18.30
747.80	H	Peak	33.90	-4.72	29.18	46.00	-16.82

Remark :

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

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	GPRS 850 CH Low Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	824.2 MHz	Test By	Nick
Temperature	25	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1648.4	V	--	--			--	74.00	54.00	
2472.6	V	--	--			--	74.00	54.00	
3296.8	V	--	--			--	74.00	54.00	
4121.0	V	--	--			--	74.00	54.00	
4945.2	V	33.65	--	6.28	39.93	--	74.00	54.00	-14.07
1648.4	H	--	--			--	74.00	54.00	
2472.6	H	--	--			--	74.00	54.00	
3296.8	H	--	--			--	74.00	54.00	
4121.0	H	--	--			--	74.00	54.00	
4945.2	H	33.68	--	6.28	39.96	--	74.00	54.00	-14.04

**Remark:**

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode GPRS 850 CH Mid Mode  
Fundamental Frequency 836.6 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1673.2	V	--	--			--	74.00	54.00	
2509.8	V	--	--			--	74.00	54.00	
3346.4	V	--	--			--	74.00	54.00	
4183.0	V	--	--			--	74.00	54.00	
4900.0	V	34.05	--	6.21	40.26	--	74.00	54.00	-13.74
5019.6	V	--	--			--	74.00	54.00	
1673.2	H	--	--			--	74.00	54.00	
2509.8	H	--	--			--	74.00	54.00	
3346.4	H	--	--			--	74.00	54.00	
4183.0	H	--	--			--	74.00	54.00	
4965.0	H	33.80	--	6.38	40.18	--	74.00	54.00	-13.82
5019.6	H	--	--			--	74.00	54.00	

## Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	GPRS 850 CH High Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	848.8 MHz	Test By	Nick
Temperature	25	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1697.6	V	--	--			--	74.00	54.00	
2546.4	V	--	--			--	74.00	54.00	
3395.2	V	--	--			--	74.00	54.00	
4244.0	V	--	--			--	74.00	54.00	
4477.5	V	34.31	--	5.25	39.56	--	74.00	54.00	-14.44
5092.8	V	--	--			--	74.00	54.00	
1697.6	H	--	--			--	74.00	54.00	
2546.4	H	--	--			--	74.00	54.00	
3395.2	H	--	--			--	74.00	54.00	
4244.0	H	--	--			--	74.00	54.00	
4965.0	H	33.28	--	6.38	39.66	--	74.00	54.00	-14.34
5092.8	H	--	--			--	74.00	54.00	

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode GPRS 1900 CH Low Mode  
Fundamental Frequency 1850.2 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3700.4	V	--	--			--	74.00	54.00	
4887.0	V	33.65	--	6.23	39.88	--	74.00	54.00	-14.12
5550.6	V	--	--			--	74.00	54.00	
7400.8	V	--	--			--	74.00	54.00	
9251.0	V	--	--			--	74.00	54.00	
11101.2	V	--	--			--	74.00	54.00	
3700.4	H	--	--			--	74.00	54.00	
4302.0	H	35.53	--	4.67	40.20	--	74.00	54.00	-13.80
5550.6	H	--	--			--	74.00	54.00	
7400.8	H	--	--			--	74.00	54.00	
9251.0	H	--	--			--	74.00	54.00	
11101.2	H	--	--			--	74.00	54.00	

**Remark:**

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode GPRS 1900 CH Mid Mode  
Fundamental Frequency 1880 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3760.0	V	--	--			--	74.00	54.00	
4542.5	V	34.39	--	5.40	39.79	--	74.00	54.00	-14.21
5640.0	V	--	--			--	74.00	54.00	
7520.0	V	--	--			--	74.00	54.00	
9400.0	V	--	--			--	74.00	54.00	
11280.0	V	--	--			--	74.00	54.00	
3760.0	H	--	--			--	74.00	54.00	
4802.5	H	34.41	--	6.02	40.43	--	74.00	54.00	-13.57
5640.0	H	--	--			--	74.00	54.00	
7520.0	H	--	--			--	74.00	54.00	
9400.0	H	--	--			--	74.00	54.00	
11280.0	H	--	--			--	74.00	54.00	

## Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	GPRS 1900 CH High Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	1909.8 MHz	Test By	Nick
Temperature	25	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3819.6	V	--	--			--	74.00	54.00	
4932.5	V	33.64	--	6.28	39.92	--	74.00	54.00	-14.08
5729.4	V	--	--			--	74.00	54.00	
7639.2	V	--	--			--	74.00	54.00	
9549.0	V	--	--			--	74.00	54.00	
11458.8	V	--	--			--	74.00	54.00	
3819.6	H	--	--			--	74.00	54.00	
4757.0	H	33.87	--	5.92	39.79	--	74.00	54.00	-14.21
5729.4	H	--	--			--	74.00	54.00	
7639.2	H	--	--			--	74.00	54.00	
9549.0	H	--	--			--	74.00	54.00	
11458.8	H	--	--			--	74.00	54.00	

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode HSDPA Band II CH Low Mode  
 Fundamental Frequency 1852.4 MHz  
 Temperature 25  
 Humidity 65 %

Test Date Aug. 18, 2011  
 Test By Nick  
 Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3704.8	V	--	--			--	74.00	54.00	
4302.0	V	35.49	--	4.67	40.16	--	74.00	54.00	-13.84
5557.2	V	--	--			--	74.00	54.00	
7409.6	V	--	--			--	74.00	54.00	
9262.0	V	--	--			--	74.00	54.00	
11114.4	V	--	--			--	74.00	54.00	
3704.8	H	--	--			--	74.00	54.00	
4477.5	H	34.23	--	5.25	39.48	--	74.00	54.00	-14.52
5557.2	H	--	--			--	74.00	54.00	
7409.6	H	--	--			--	74.00	54.00	
9262.0	H	--	--			--	74.00	54.00	
11114.4	H	--	--			--	74.00	54.00	

**Remark:**

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode HSDPA Band II CH Mid Mode  
Fundamental Frequency 1880 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3760.0	V	--	--			--	74.00	54.00	
4932.5	V	33.33	--	6.28	39.61	--	74.00	54.00	-14.39
5640.0	V	--	--			--	74.00	54.00	
7520.0	V	--	--			--	74.00	54.00	
9400.0	V	--	--			--	74.00	54.00	
11280.0	V	--	--			--	74.00	54.00	
3760.0	H	--	--			--	74.00	54.00	
4757.0	H	33.87	--	5.92	39.79	--	74.00	54.00	-14.21
5640.0	H	--	--			--	74.00	54.00	
7520.0	H	--	--			--	74.00	54.00	
9400.0	H	--	--			--	74.00	54.00	
11280.0	H	--	--			--	74.00	54.00	

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode HSDPA Band II CH High Mode  
Fundamental Frequency 1907.6 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3815.2	V	--	--			--	74.00	54.00	
4802.5	V	34.18	--	6.02	40.20	--	74.00	54.00	-13.80
5722.8	V	--	--			--	74.00	54.00	
7630.4	V	--	--			--	74.00	54.00	
9538.0	V	--	--			--	74.00	54.00	
11445.6	V	--	--			--	74.00	54.00	
3815.2	H	--	--			--	74.00	54.00	
4802.5	H	34.07	--	6.02	40.09	--	74.00	54.00	-13.91
5722.8	H	--	--			--	74.00	54.00	
7630.4	H	--	--			--	74.00	54.00	
9538.0	H	--	--			--	74.00	54.00	
11445.6	H	--	--			--	74.00	54.00	

## Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode HSUPA Band IV CH Low Mode  
 Fundamental Frequency 1712.4 MHz  
 Temperature 25  
 Humidity 65 %

Test Date Aug. 18, 2011  
 Test By Nick  
 Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3424.8	V	32.83	--	1.81	34.64	--	74.00	54.00	-19.36
5137.2	V	--	--			--	74.00	54.00	
6849.6	V	--	--			--	74.00	54.00	
8562.0	V	--	--			--	74.00	54.00	
10274.4	V	--	--			--	74.00	54.00	
3424.8	H	33.53	--	1.81	35.34	--	74.00	54.00	-18.66
5137.2	H	--	--			--	74.00	54.00	
6849.6	H	--	--			--	74.00	54.00	
8562.0	H	--	--			--	74.00	54.00	
10274.4	H	--	--			--	74.00	54.00	

**Remark:**

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode HSUPA Band IV CH Mid Mode  
Fundamental Frequency 1732.6 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3465.2	V	32.39	--	1.93	34.32	--	74.00	54.00	-19.68
5197.8	V	--	--			--	74.00	54.00	
6930.4	V	--	--			--	74.00	54.00	
8663.0	V	--	--			--	74.00	54.00	
10395.6	V	--	--			--	74.00	54.00	
3465.2	H	32.48	--	1.93	34.41	--	74.00	54.00	-19.59
5197.8	H	--	--			--	74.00	54.00	
6930.4	H	--	--			--	74.00	54.00	
8663.0	H	--	--			--	74.00	54.00	
10395.6	H	--	--			--	74.00	54.00	

## Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode HSUPA Band IV CH High Mode  
Fundamental Frequency 1752.6 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3505.2	V	32.79	--	2.06	34.85	--	74.00	54.00	-19.15
5257.8	V	--	--			--	74.00	54.00	
7010.4	V	--	--			--	74.00	54.00	
8763.0	V	--	--			--	74.00	54.00	
10515.6	V	--	--			--	74.00	54.00	
3505.2	H	33.69	--	2.06	35.75	--	74.00	54.00	-18.25
5257.8	H	--	--			--	74.00	54.00	
7010.4	H	--	--			--	74.00	54.00	
8763.0	H	--	--			--	74.00	54.00	
10515.6	H	--	--			--	74.00	54.00	

## Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode HSDPA Band V CH Low Mode  
 Fundamental Frequency 826.40 MHz  
 Temperature 25  
 Humidity 65 %

Test Date Aug. 18, 2011  
 Test By Nick  
 Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1652.8	V	--	--			--	74.00	54.00	
2479.2	V	--	--			--	74.00	54.00	
3305.6	V	--	--			--	74.00	54.00	
4132.0	V	--	--			--	74.00	54.00	
4958.4	V	--	--			--	74.00	54.00	
4997.5	V	33.57	--	6.44	40.01	--	74.00	54.00	-13.99
1652.8	H	--	--			--	74.00	54.00	
2479.2	H	--	--			--	74.00	54.00	
3305.6	H	--	--			--	74.00	54.00	
4132.0	H	--	--			--	74.00	54.00	
4958.4	H	33.54	--	6.32	39.86	--	74.00	54.00	-14.14

**Remark:**

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode HSDPA Band V CH Mid Mode  
Fundamental Frequency 836.60 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1673.2	V	--	--			--	74.00	54.00	
2509.8	V	--	--			--	74.00	54.00	
3346.4	V	--	--			--	74.00	54.00	
4183.0	V	--	--			--	74.00	54.00	
4978.0	V	33.46	--	6.39	39.85	--	74.00	54.00	-14.15
5019.6	V	--	--			--	74.00	54.00	
1673.2	H	--	--			--	74.00	54.00	
2509.8	H	--	--			--	74.00	54.00	
3346.4	H	--	--			--	74.00	54.00	
4183.0	H	--	--			--	74.00	54.00	
4913.0	H	33.56	--	6.26	39.82	--	74.00	54.00	-14.18
5019.6	H	--	--			--	74.00	54.00	

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode HSDPA Band V CH High Mode  
Fundamental Frequency 846.60 MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1693.2	V	--	--			--	74.00	54.00	
2539.8	V	--	--			--	74.00	54.00	
3386.4	V	--	--			--	74.00	54.00	
4233.0	V	--	--			--	74.00	54.00	
4737.5	V	33.68	--	5.86	39.54	--	74.00	54.00	-14.46
5079.6	V	--	--			--	74.00	54.00	
1693.2	H	--	--			--	74.00	54.00	
2539.8	H	--	--			--	74.00	54.00	
3386.4	H	--	--			--	74.00	54.00	
4233.0	H	--	--			--	74.00	54.00	
4523.0	H	34.17	--	5.37	39.54	--	74.00	54.00	-14.46
5079.6	H	--	--			--	74.00	54.00	

## Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	CDMA 2000 Cellular CH Low Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	824.70MHz	Test By	Nick
Temperature	25	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1649.4	V	--	--			--	74.00	54.00	
2474.1	V	--	--			--	74.00	54.00	
3298.8	V	--	--			--	74.00	54.00	
4123.5	V	--	--			--	74.00	54.00	
4445.0	V	33.86	--	4.04	37.90	--	74.00	54.00	-16.10
4948.2	V	--	--			--	74.00	54.00	
1649.4	H	--	--			--	74.00	54.00	
2474.1	H	--	--			--	74.00	54.00	
3298.8	H	--	--			--	74.00	54.00	
4123.5	H	--	--			--	74.00	54.00	
4802.5	H	33.87	--	5.00	38.87	--	74.00	54.00	-15.13
4948.2	H	--	--			--	74.00	54.00	

**Remark:**

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode CDMA 2000 Cellular CH Mid Mode  
Fundamental Frequency 836.52MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1673.0	V	--	--			--	74.00	54.00	
2509.6	V	--	--			--	74.00	54.00	
3346.1	V	--	--			--	74.00	54.00	
4182.6	V	--	--			--	74.00	54.00	
4997.5	V	33.95	--	5.60	39.55	--	74.00	54.00	-14.45
5019.1	V	--	--			--	74.00	54.00	
1673.0	H	--	--			--	74.00	54.00	
2509.6	H	--	--			--	74.00	54.00	
3346.1	H	--	--			--	74.00	54.00	
4182.6	H	--	--			--	74.00	54.00	
4848.0	H	35.14	--	5.14	40.28	--	74.00	54.00	-13.72
5019.1	H	--	--			--	74.00	54.00	

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	CDMA 2000 Cellular CH High Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	848.31MHz	Test By	Nick
Temperature	25	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
1696.6	V	--	--			--	74.00	54.00	
2544.9	V	--	--			--	74.00	54.00	
3393.2	V	--	--			--	74.00	54.00	
4241.6	V	--	--			--	74.00	54.00	
5173.0	V	35.81	--	5.69	41.50	--	74.00	54.00	-12.50
5089.9	V	--	--			--	74.00	54.00	
1696.6	H	--	--			--	74.00	54.00	
2544.9	H	--	--			--	74.00	54.00	
3393.2	H	--	--			--	74.00	54.00	
4241.6	H	--	--			--	74.00	54.00	
4575.0	H	33.78	--	4.34	38.12	--	74.00	54.00	-15.88
5089.9	H	--	--			--	74.00	54.00	

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode CDMA 2000 PCS CH Low Mode  
 Fundamental Frequency 1851.25MHz  
 Temperature 25  
 Humidity 65 %

Test Date Aug. 18, 2011  
 Test By Nick  
 Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3702.5	V	--	--			--	74.00	54.00	
4913.0	V	33.65	--	5.31	38.96	--	74.00	54.00	-15.04
5553.8	V	--	--			--	74.00	54.00	
7405.0	V	--	--			--	74.00	54.00	
9256.3	V	--	--			--	74.00	54.00	
11107.5	V	--	--			--	74.00	54.00	
3702.5	H	--	--			--	74.00	54.00	
4997.5	H	33.42	--	5.60	39.02	--	74.00	54.00	-14.98
5553.8	H	--	--			--	74.00	54.00	
7405.0	H	--	--			--	74.00	54.00	
9256.3	H	--	--			--	74.00	54.00	
11107.5	H	--	--			--	74.00	54.00	

**Remark:**

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode CDMA 2000 PCS CH Mid Mode  
Fundamental Frequency 1880MHz  
Temperature 25  
Humidity 65 %

Test Date Aug. 18, 2011  
Test By Nick  
Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3600.0	V	--	--			--	74.00	54.00	
4997.5	V	33.42	--	5.60	39.02	--	74.00	54.00	-14.98
5400.0	V	--	--			--	74.00	54.00	
7200.0	V	--	--			--	74.00	54.00	
9000.0	V	--	--			--	74.00	54.00	
10800.0	V	--	--			--	74.00	54.00	
3600.0	H	--	--			--	74.00	54.00	
4445.0	H	33.62	--	4.04	37.66	--	74.00	54.00	-16.34
5400.0	H	--	--			--	74.00	54.00	
7200.0	H	--	--			--	74.00	54.00	
9000.0	H	--	--			--	74.00	54.00	
10800.0	H	--	--			--	74.00	54.00	

## Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	CDMA 2000 PCS CH High Mode	Test Date	Aug. 18, 2011
Fundamental Frequency	1908.75MHz	Test By	Nick
Temperature	25	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB)	Actual Peak FS (dBuV/m)	Actual AV FS (dBuV/m)	Peak Limit at 3m (dBuV/m)	AV Limit at 3m (dBuV/m)	Margin (dB)
3717.0	V	34.94	--	1.76	36.70	--	74.00	54.00	-17.30
3817.5	V	--	--			--	74.00	54.00	
5726.3	V	--	--			--	74.00	54.00	
7635.0	V	--	--			--	74.00	54.00	
9543.8	V	--	--			--	74.00	54.00	
11452.5	V	--	--			--	74.00	54.00	
3817.5	H	--	--			--	74.00	54.00	
4887.0	H	34.34	--	5.25	39.59	--	74.00	54.00	-14.41
5726.3	H	--	--			--	74.00	54.00	
7635.0	H	--	--			--	74.00	54.00	
9543.8	H	--	--			--	74.00	54.00	
11452.5	H	--	--			--	74.00	54.00	

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## APPENDIX 1

### PHOTOGRAPHS OF SET UP

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