

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

OF

Product Name: Tablet
Brand Name: hp
Model No.: HSTNH-I408CC
Model Difference: N/A
FCC ID: B94HHI408CC
IC: 3905A-HHI408CC
Report No.: ER/2014/90071
Issue Date: Oct. 16, 2014
FCC Rule Part: 2 , 22H & 24E & 27C
IC Rule Part: RSS 132 Issue 3, RSS 133 Issue 6 and RSS 139 Issue 2
Prepared for (FCC): Hewlett-Packard Company
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Prepared for (IC): Hewlett-Packard Company
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VERIFICATION OF COMPLIANCE

Applicant (FCC): Hewlett-Packard Company
1501 Page Mill Road, Palo Alto, California 94304, USA

Applicant (IC): Hewlett-Packard Company
950 West Maude Ave. Sunnyvale California 94085 United States

Product Name: Tablet

Brand Name: hp

Model No.: HSTNH-I408CC

Model Difference: N/A

FCC ID: B94HHI408CC

IC: 3905A-HHI408CC

File Number: ER/2014/90071

Date of test: Sep. 25, 2014 ~ Oct. 14, 2014

Date of EUT Received: Sep. 25, 2014

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 subpart C and IC standards Issue 3 of RSS-132, Issue 6 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:

Marcus Tseng

Date:

Oct. 16, 2014

Marcus Tseng / Engineer

Prepared By:

Tiffany Kao

Date:

Oct. 16, 2014

Tiffany Kao / Clerk

Approved By:

Jim Chang

Date:

Oct. 16, 2014

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Oct. 16, 2014	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Tablet	
Brand Name:	hp	
Model No.:	HSTNH-I408CC	
Model Difference:	N/A	
Hardware Version:	IP07_MAIN_PCB V1.4	
Software Version:	6.3.9600	
Data Cable (USB):	Model No.:N/A, Supplier: N/A	
Power Supply:	3.7Vdc form Rechargeable Li-ion Battery or 5Vdc from adapter	
	Battery:	Model No.: PR-0371152, Supplier: TCL Hyperpower Batteries Inc.
	Adapter:	Model No.: W12-010N3A, Supplier: Chicony

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GPRS / WCDMA:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27dBm
	GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
Type of Emission:	GPRS 850: 247KGXW, GPRS 1900: 246KGXW EDGE 850: 251KG7W, EDGE 1900: 253KG7W WCDMA Band II: 4M05F9W, WCDMA Band IV: 4M12F9W, WCDMA Band V: 4M12F9W HSDPA Band II: 4M20F9W, HSDPA Band IV: 4M07F9W, HSDPA Band V: 4M06F9W HSUPA Band II: 4M13F9W, HSUPA Band IV: 4M06F9W, HSUPA Band V: 4M11F9W		
IMEI:	869874004382881		

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

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GPRS 850	3.7	782
GPRS 1900	3.7	563
EDGE 850	3.7	578
EDGE 1900	3.7	552
WCDMA B2	3.7	1132
WCDMA B4	3.7	1023
WCDMA B5	3.7	986
HSUPA B2	3.7	1071
HSUPA B4	3.7	946
HSUPA B5	3.7	923
HSDPA B2	3.7	1065
HSDPA B4	3.7	946
HSDPA B5	3.7	925

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

This submittal(s) (test report) is intended for **FCC ID: B94HHI408CC** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part 27 subpart C of the FCC CFR 47 Rules and **IC: 3905A-HHI408CC** filing to comply with Issue 3 of RSS-132, Issue 6 of RSS-133 and Issue 2 of RSS-139.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057 and issue 1 of RSS-130, issue 3 of RSS-132, issue 6 of RSS-133 and issue 2 of RSS-139, issue 1 of RSS-199, and RSS Gen Issue3.

TS 151 010-1 is used to set, and measure the output power.

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

KDB971168 D01 Power Meas license Digital System v01 as the supplemental guideline to conduct the measurement, including Peak to Power Average Ratio, Average Power over the fundamental signal BW (EIRP/ERP) and Signal Bandwidth.

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1.4. 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: 2009. FCC Registration Number: 990257. The address of SGS Taiwan Ltd. Electronics & Communication Laboratory 1F, No.134, Wukung Road New Taipei City TAIWAN 24803, Canada Registration Number: 4620A-5

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. FCC Registration Number: 455997. The address of SGS Taiwan Ltd. Electronics & Communication Laboratory 1F, No.134, Wukung Road New Taipei City TAIWAN 24803, IC Registration Number: 4620A-6.

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

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

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

2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4:2009.

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2.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
Spectrum Analyzer	Agilent	E4440A	US41160416	03/08/2014	03/07/2015
Radio Communication Analyzer	R & S	CMU200	116097	03/11/2014	03/10/2015
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/21/2013	10/20/2014
Temperature Chamber	TERCHY	MHG-120LF	911009	05/07/2014	05/06/2015
DC Block	Mini-Circuits	BLK-18-S+	1	02/27/2014	02/26/2015
Attenuator	Mini-Circuit	BW-S10W2+	002	02/27/2014	02/26/2015
Splitter	Agilent	11636B	N/A	02/27/2014	02/26/2015
DC Power Supply	Agilent	E3640A	MY52410006	11/07/2013	11/06/2014

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	01/20/2014	01/19/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/22/2013	10/21/2014
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/02/2014	01/01/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/27/2013	11/26/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2014	05/18/2015
Horn antenna	ETS.LINDGREN	3117	123991	01/20/2014	01/19/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	01/23/2014	01/22/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/29/2014	07/28/2015
Network Analyze	Anritsu	MS4644A	1216312	05/24/2014	05/23/2015
Signal Generator	Agilent	E4438C	MY45093613	08/06/2014	08/05/2015
Pre-Amplifier	Agilent	8447D	1937A02834	01/03/2014	01/02/2015
Pre-Amplifier	Agilent	8449B	3008A00578	01/03/2014	01/02/2015
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/24/2014	01/23/2015
Attenuator	Mini-Circuit	BW-S10W2+	004	02/27/2014	02/26/2015
Radio Communication Analyzer	R & S	CMU200	116097	03/11/2014	03/10/2015
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/21/2013	10/20/2014
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	966_Tx	10m	01/03/2014	01/02/2015
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/03/2014	01/02/2015
Filter 800-1000	Micro-Tronics	EWT	M2	02/27/2014	02/26/2015
Filter 1800-2000	Micro-Tronics	EWT	M2	02/27/2014	02/26/2015
Filter 1700-1800	Micro-Tronics	BRC15751	001	02/27/2014	02/26/2015
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/27/2014	02/26/2015
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/27/2014	02/26/2015
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

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2.5. Configuration of Tested System

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

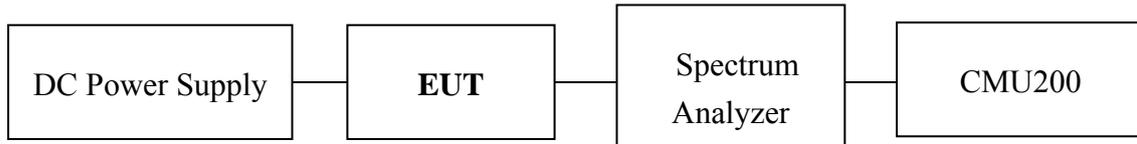


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

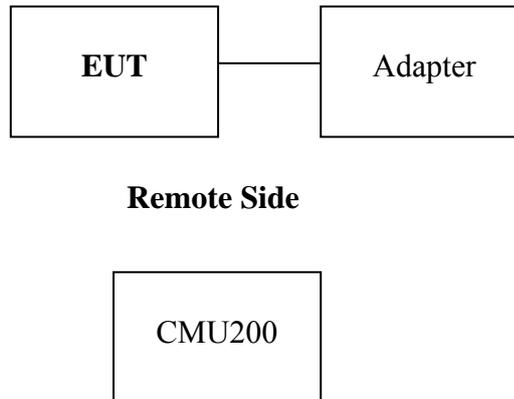


Table 2-1 Equipment Used in

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
2.	DC Power Supply	HP	E3640A	MY52410006	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)(4)	§4.8 (RSS-Gen Issue 3) §5.4 (RSS-132) §6.4 (RSS-133) §6.4 (RSS-139)	ERP/ EIRP measurement	Compliant
§2.1049(h)	§4.6.1 (RSS-Gen Issue 3) §5.5 (RSS-132) §2.3 (RSS-133) §2.3 (RSS-139)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(h)	§4.9 (RSS-Gen Issue 3) §5.5 (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(h)	§4.9 (RSS-Gen Issue 3) §5.5 (RSS-132) §6.5 (RSS-133) §6.5 (RSS-139)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(B)	§5.4 (RSS-132) §6.4 (RSS-139) §6.4 (RSS-133)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	§4.7 (RSS-Gen Issue 3) §5.3 (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) §5.3 (RSS-132) §6.3 (RSS-133) §6.3 (RSS-139)	Frequency Stability vs. Voltage	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	17.96	ERP	0.063
GPRS 1900 Band	26.32	EIRP	0.429
EDGE 850 Band	17.91	ERP	0.062
EDGE 1900 Band	25.74	EIRP	0.375
WCDMA Band II	23.25	EIRP	0.211
WCDMA Band IV	21.03	EIRP	0.127
WCDMA Band V	18.23	ERP	0.067
HSDPA Band II	22.98	EIRP	0.199
HSDPA Band IV	21.54	EIRP	0.143
HSDPA Band V	18.11	ERP	0.065
HSUPA Band II	22.98	EIRP	0.199
HSUPA Band IV	21.42	EIRP	0.139
HSUPA Band V	18.15	ERP	0.065

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The list of channel selected to conduct the measurements

GPRS/EDGE 850:

Channel Low: AFRCN 128 at 824.2MHz, Channel Mid: AFRCN 190 at 836.6MHz, Channel High: AFRCN 251 at 848.8MHz.

GPRS/EDGE 1900:

Channel Low: AFRCN 512 at 1850.2MHz, Channel Mid: AFRCN 661 at 1880.0MHz, Channel High: AFRCN 810 at 1909.8MHz

WCDMA/HSPA BII:

Channel Low: UAFRCN 9262 at 1852.4MHz, Channel Mid: UAFRCN 9400 at 1880.0MHz, Channel High: UAFRCN 9538 at 1907.6MHz.

WCDMA/HSPA BIV:

Channel Low: UAFRCN 1312 at 1712.4MHz, Channel Mid: UAFRCN 1413 at 1732.6MHz, Channel High: UAFRCN 1513 at 1752.6MHz.

WCDMA/HSPA BV:

Channel Low: UAFRCN 4132 at 826.4MHz, Channel Mid: UAFRCN 4183 at 836.6MHz, Channel High: UAFRCN 4233 at 846.6MHz.

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

The evaluation of Test Mode as configured in UE presented on the Test Report:

GPRS/WCDMA/HSPA:

Radiated Spurious Emission

The Measurement Data of field strength of spurious emission with respect to supported configuration of given application (Transmission Band, Modulation Scheme, Resource Block) have been pre-scanned, and the result that yields in the highest emission close to the limit are presented on the test report.

GPRS, HSPA is the worst-case found in the pre-scanned measurement, and only data that yields the worst case is revealed on the test report.

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.42 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 123.36 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.55 dB
Peak to Average Ratio	+/- 1.55 dB
Frequency Stability vs. Temperature	+/- 123.36 Hz
Frequency Stability vs. Voltage	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 0.2%

Radiated Spurious Emission:

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

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

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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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 limited to 2W

FCC 24.232(c) Equipment must employ means to limit the power to the minimum necessary for successful communication.

Part 27, 50(d)(4) Portable stations are limited to 1W

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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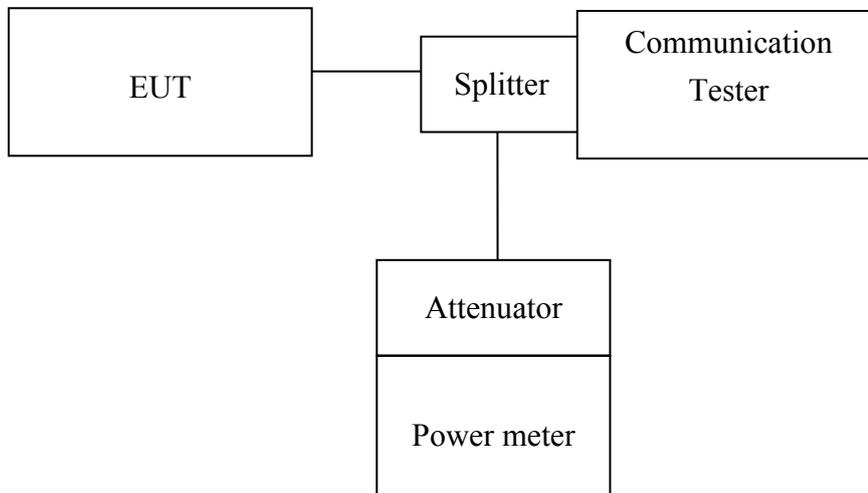
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6.2. Test Set-up:



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. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

Necessary Communication complying with 24.232 (c) and 27.5(d)(4)

Set CMU200 (base-station simulator) MS Signal with packet data submenu; SLOT Configuration
Set appropriate level to verify if or not power on mobile station's link with simulator still exists.

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 (GMSK; 8-PSK)

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.20	32.00	29.90	29.70
	836.6	190	32.30	32.10	30.00	29.80
	848.8	251	32.40	32.20	30.00	29.80

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	27.80	27.70	26.50	26.30
	836.6	190	28.00	27.80	26.50	26.30
	848.8	251	28.00	27.80	26.50	26.30

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 1900	1850.2	512	29.30	29.10	26.60	26.40
	1880.0	661	29.20	29.00	26.50	26.30
	1909.8	810	29.00	28.80	26.50	26.30

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 1900	1850.2	512	24.80	24.60	23.50	23.30
	1880.0	661	24.70	24.50	23.40	23.20
	1909.8	810	24.70	24.50	23.30	23.10

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
EDGE 850	824.2	128	29.40	26.30	27.00	23.90
	836.6	190	29.50	26.40	27.00	23.90
	848.8	251	29.50	26.40	27.00	23.90

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
EDGE 850	824.2	128	25.50	22.40	24.00	20.90
	836.6	190	25.50	22.40	24.10	21.00
	848.8	251	25.50	22.40	24.00	20.90

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
EDGE 1900	1850.2	512	28.60	25.70	26.20	23.30
	1880.0	661	28.50	25.60	26.00	23.10
	1909.8	810	28.30	25.40	25.90	23.00

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Peak Power (1DN 4UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
EDGE 1900	1850.2	512	24.60	21.70	23.10	20.20
	1880.0	661	24.50	21.60	23.00	20.10
	1909.8	810	24.30	21.40	22.80	19.90

Cable loss offset Low Band: 14.9dB

Cable loss offset High Band: 14.9dB

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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	25.13	22.65
	1880.0	9400	25.51	22.30
	1907.6	9538	25.56	22.18

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band IV	1712.4	1312	25.44	22.72
	1732.6	1412	25.53	22.33
	1752.6	1513	25.54	22.49

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	26.17	23.18
	836.6	4183	26.24	23.08
	846.6	4233	25.90	22.96

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band II	1852.4	9262	24.79	21.45
	1880.0	9400	25.47	21.22
	1907.6	9538	25.04	21.02

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band IV	1712.4	1312	25.15	21.66
	1732.6	1412	25.27	21.22
	1752.6	1513	25.18	21.36

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band V	826.4	4132	25.85	22.07
	836.6	4183	26.13	22.05
	846.6	4233	25.86	21.89

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band II	1852.4	9262	24.85	21.63
	1880.0	9400	25.48	21.20
	1907.6	9538	25.09	21.13

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band IV	1712.4	1312	25.12	21.63
	1732.6	1412	25.24	21.20
	1752.6	1513	25.13	21.37

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band V	826.4	4132	25.98	22.13
	836.6	4183	26.04	22.00
	846.6	4233	25.92	21.90

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

Cable loss offset Low Band: 14.9dB

Cable loss offset High Band: 14.9dB

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6.5.1.3:HSDPA Release 6 mode

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

HSDPA SUB-TEST Setting

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

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

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

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	22.87	22.55	22.37	20.3dBm – 25.7dBm	Pass
	2	22.58	22.19	22.05	20.3dBm – 25.7dBm	Pass
	3	22.41	22.07	21.88	19.8dBm – 25.7dBm	Pass
	4	22.46	22.11	21.94	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1412	1513		
HSDPA (B4)	1	22.94	22.58	22.68	20.3dBm – 25.7dBm	Pass
	2	22.65	22.22	22.36	20.3dBm – 25.7dBm	Pass
	3	22.48	22.10	22.19	19.8dBm – 25.7dBm	Pass
	4	22.53	22.14	22.25	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.40	23.33	23.15	20.3dBm – 25.7dBm	Pass
	2	23.11	22.97	22.83	20.3dBm – 25.7dBm	Pass
	3	22.94	22.85	22.66	19.8dBm – 25.7dBm	Pass
	4	22.99	22.89	22.72	19.8dBm – 25.7dBm	Pass

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6.5.1.4.: HSPA (HSDPA & HSUPA) Release 6 mode

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

HSPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{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	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	22.61	22.23	22.09	18.8dBm – 25.7dBm	Pass
	2	20.67	20.31	20.13	16.8dBm – 25.7dBm	Pass
	3	21.58	21.29	21.12	17.8dBm – 25.7dBm	Pass
	4	20.72	20.37	20.21	16.8dBm – 25.7dBm	Pass
	5	22.47	22.06	21.98	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1412	1513		
HSUPA(B4)	1	22.68	22.26	22.40	18.8dBm – 25.7dBm	Pass
	2	20.74	20.34	20.44	16.8dBm – 25.7dBm	Pass
	3	21.65	21.32	21.43	17.8dBm – 25.7dBm	Pass
	4	20.79	20.40	20.52	16.8dBm – 25.7dBm	Pass
	5	22.54	22.09	22.29	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	23.14	23.01	22.87	18.8dBm – 25.7dBm	Pass
	2	21.20	21.09	20.91	16.8dBm – 25.7dBm	Pass
	3	22.11	22.07	21.90	17.8dBm – 25.7dBm	Pass
	4	21.25	21.15	20.99	16.8dBm – 25.7dBm	Pass
	5	23.00	22.84	22.76	18.8dBm – 25.7dBm	Pass

6.5.2. Minimum Communications Power Measurement

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. 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 is limited to 7W ERP.

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

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

According to IC RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W which given in SRSP-510.

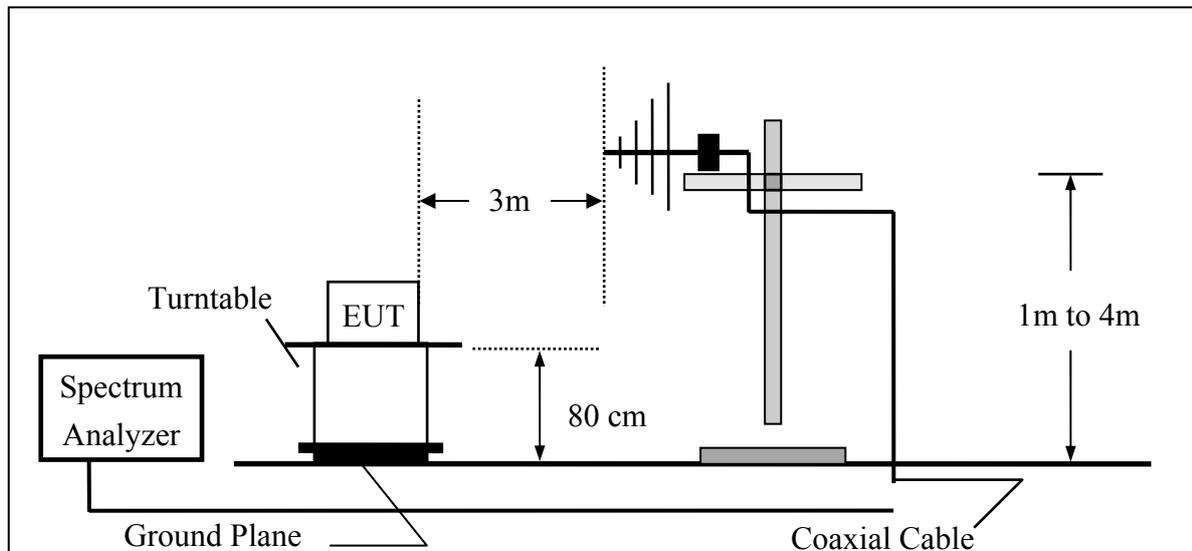
According to issue 3 of RSS 132, section 5.4. The transmitter output power shall not exceed the limits 11.5W / 40.60 dBm given in SRSP-503.

According to issue 2 of RSS 139, section 6.4 The transmitter output power shall not exceed the limits 1W given in SRSP-513.

The average equivalent isotropically radiated power (e.i.r.p.) for fixed, mobile and portable transmitters in the 1710-1755 MHz shall not exceed 1 watt.

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

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

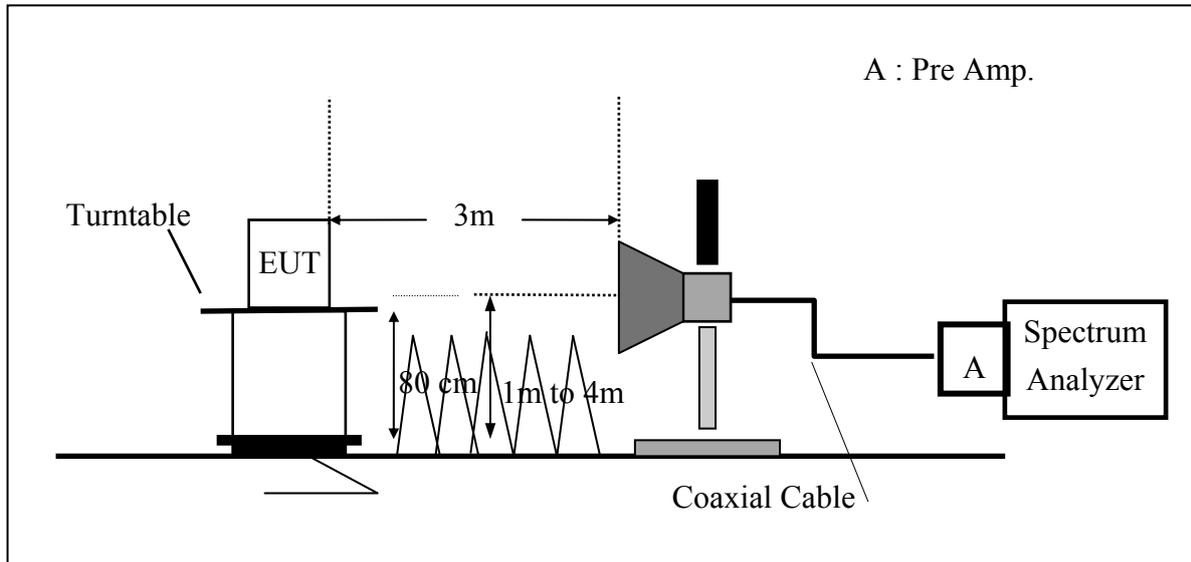


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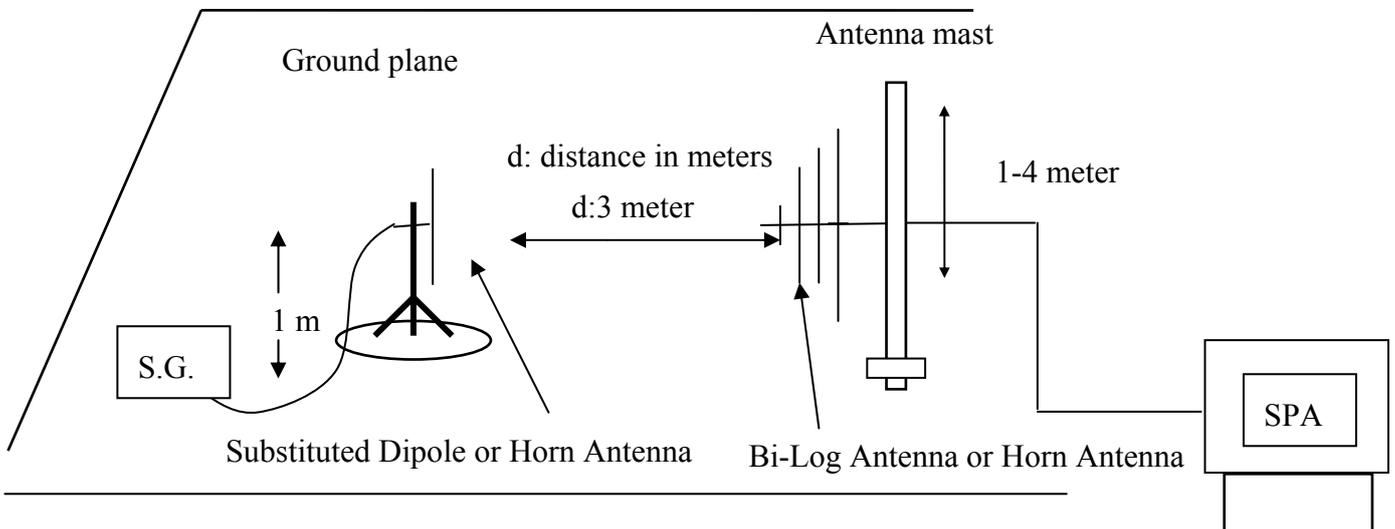
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure:

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

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

ERP in frequency band 824.2 –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:

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

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

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Spectrum setting:

1. Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and $VBW \geq 3 \times RBW$.

Or,

2. KDB 971168 D01 Power Meas License Digital Systems v01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;

Set span = 2 X occupied BW;

Set RBW \approx 1~5% of the span, not to exceed 1 MHz

Set VBW = 3 x RBW;

Select average power (RMS) detector

Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time = $601 \times 10^{-3} = 6s$).

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. Measurement Result: (Peak) –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	15.74	3.75	-3.03	16.46	38.45
			H	17.13	3.75	-3.03	17.85	38.45
	836.6	190	V	16.15	3.76	-3.07	16.84	38.45
			H	17.27	3.76	-3.07	17.96	38.45
	848.8	251	V	15.66	3.77	-3.11	16.32	38.45
			H	17.11	3.77	-3.11	17.77	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	824.2	128	V	15.70	3.75	-3.03	16.43	38.45
			H	17.03	3.75	-3.03	17.75	38.45
	836.6	190	V	17.22	3.76	-3.07	17.91	38.45
			H	17.11	3.76	-3.07	17.81	38.45
	848.8	251	V	16.62	3.77	-3.11	17.28	38.45
			H	16.77	3.77	-3.11	17.43	38.45

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	24.23	5.22	-4.67	24.79	33.00
			H	20.43	5.22	-4.67	20.99	33.00
	1880.0	661	V	25.87	5.16	-4.70	26.32	33.00
			H	19.08	5.16	-4.70	19.53	33.00
	1909.8	810	V	25.25	5.09	-4.74	25.60	33.00
			H	20.03	5.09	-4.74	20.38	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	1850.2	512	V	23.34	5.22	-4.67	23.90	33.00
			H	19.08	5.22	-4.67	19.63	33.00
	1880.0	661	V	25.13	5.16	-4.70	25.59	33.00
			H	18.20	5.16	-4.70	18.65	33.00
	1909.8	810	V	25.39	5.09	-4.74	25.74	33.00
			H	18.33	5.09	-4.74	18.68	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B2	1852.4	9262	V	21.02	5.22	-4.67	21.56	33.00
			H	16.04	5.22	-4.67	16.59	33.00
	1880.0	9400	V	22.79	5.16	-4.70	23.25	33.00
			H	16.82	5.16	-4.70	17.28	33.00
	1907.6	9538	V	22.49	5.10	-4.74	22.85	33.00
			H	16.76	5.10	-4.74	17.12	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B2	1852.4	9262	V	20.59	5.22	-4.67	21.13	33.00
			H	16.62	5.22	-4.67	17.17	33.00
	1880.0	9400	V	22.53	5.16	-4.71	22.98	33.00
			H	16.69	5.16	-4.70	17.14	33.00
	1907.6	9538	V	22.57	5.10	-4.74	22.93	33.00
			H	16.80	5.10	-4.74	17.16	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B2	1852.4	9262	V	20.00	5.22	-4.67	20.55	33.00
			H	16.96	5.22	-4.67	17.50	33.00
	1880.0	9400	V	22.53	5.16	-4.70	22.98	33.00
			H	16.62	5.16	-4.70	17.07	33.00
	1907.6	9538	V	22.62	5.10	-4.74	22.98	33.00
			H	16.86	5.10	-4.74	17.22	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B4	1712.4	1312	V	19.66	5.55	-4.50	20.71	30.00
			H	11.14	5.55	-4.50	12.18	30.00
	1732.6	1413	V	19.52	5.50	-4.53	20.49	30.00
			H	20.05	5.50	-4.53	21.03	30.00
	1752.6	1513	V	18.67	5.45	-4.55	19.57	30.00
			H	19.49	5.45	-4.55	20.39	30.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B4	1712.4	1312	V	19.69	5.55	-4.50	20.74	30.00
			H	20.49	5.55	-4.50	21.54	30.00
	1732.6	1413	V	19.47	5.50	-4.53	20.44	30.00
			H	20.07	5.50	-4.53	21.04	30.00
	1752.6	1513	V	18.83	5.45	-4.55	19.73	30.00
			H	19.49	5.45	-4.55	20.39	30.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B4	1712.4	1312	V	19.60	5.55	-4.50	20.65	30.00
			H	20.38	5.55	-4.50	21.42	30.00
	1732.6	1413	V	19.51	5.50	-4.53	20.48	30.00
			H	20.06	5.50	-4.53	21.03	30.00
	1752.6	1513	V	18.65	5.45	-4.55	19.55	30.00
			H	19.52	5.45	-4.55	20.42	30.00

Remark :

- (1) The RBW,VBW of SPA for measurement RBW= 1MHz , VBW= 3MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	12.71	3.76	-3.04	13.43	38.45
			H	17.36	3.76	-3.03	18.08	38.45
	836.6	4183	V	13.86	3.76	-3.07	14.55	38.45
			H	17.53	3.76	-3.07	18.23	38.45
	846.6	4233	V	12.80	3.77	-3.10	13.47	38.45
			H	17.45	3.77	-3.10	18.12	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B5	826.4	4132	V	13.11	3.76	-3.04	13.83	38.45
			H	17.14	3.76	-3.03	17.86	38.45
	836.6	4183	V	14.12	3.76	-3.07	14.81	38.45
			H	17.28	3.76	-3.06	17.97	38.45
	846.6	4233	V	12.79	3.77	-3.10	13.46	38.45
			H	17.44	3.77	-3.10	18.11	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B5	826.4	4132	V	13.16	3.76	-3.03	13.88	38.45
			H	17.08	3.76	-3.03	17.80	38.45
	836.6	4183	V	13.88	3.76	-3.07	14.57	38.45
			H	17.45	3.76	-3.07	18.15	38.45
	846.6	4233	V	12.74	3.77	-3.10	13.41	38.45
			H	17.40	3.77	-3.10	18.07	38.45

Remark :

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

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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049 (99%)

According to IC RSS-Gen Issue 3 §4.6.1 (99%)

According to IC RSS-132 §5.5

According to IC RSS-133 §2.3 (20dB)

According to IC RSS-139 §2.3 (20dB)

8.2. Test Set-up:

Refer to section 6.2 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, -20dBc display line was placed on the screen (or 20dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span $> 2 * \text{Signal BW}$, set % Power = 99%.

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

8.5. Measurement Result:

Refer to next pages.

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99% Bandwidth

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.241
	836.60	190	0.244
	848.80	251	0.247

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.246
	1880.00	661	0.244
	1909.80	810	0.245

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.245
	836.60	190	0.251
	848.80	251	0.251

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.245
	1880.00	661	0.253
	1909.80	810	0.249

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.0242
	1880.00	9400	4.0275
	1907.60	9538	4.0499

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.1223
	1732.60	1413	4.0719
	1752.60	1513	4.0814

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.0235
	836.00	4183	4.0150
	846.60	4233	4.1242

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.40	9262	4.0151
	1880.00	9400	4.1138
	1907.60	9538	4.2030

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA IV	1712.40	1312	4.0743
	1732.60	1413	4.0512
	1752.60	1513	4.0313

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.0044
	836.60	4183	4.0647
	846.60	4233	4.0568

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.40	9262	4.0648
	1880.00	9400	3.9559
	1907.60	9538	4.1262

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA IV	1712.40	1312	3.9922
	1732.60	1413	3.9984
	1752.60	1513	4.0600

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1058
	836.60	4183	4.0710
	846.60	4233	4.0932

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20dB Bandwidth

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
GPRS 850	824.20	128	0.284
	836.60	190	0.284
	848.80	251	0.279

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
GPRS 1900	1850.20	512	0.281
	1880.00	661	0.286
	1909.80	810	0.295

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
EDGE 850	824.20	128	0.287
	836.60	190	0.280
	848.80	251	0.289

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
EDGE 1900	1850.20	512	0.283
	1880.00	661	0.290
	1909.80	810	0.300

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EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
WCDMA II	1852.40	9262	4.406
	1880.00	9400	4.268
	1907.60	9538	4.326

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.346
	1732.60	1413	4.395
	1752.60	1513	4.328

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
WCDMA V	826.40	4132	4.333
	836.00	4183	4.341
	846.60	4233	4.320

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSDPA II	1852.40	9262	4.379
	1880.00	9400	4.303
	1907.60	9538	4.362

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSDPA IV	1712.40	1312	4.356
	1732.60	1413	4.394
	1752.60	1513	4.350

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSDPA V	826.40	4132	4.362
	836.60	4183	4.283
	846.60	4233	4.421

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EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSUPA II	1852.40	9262	4.430
	1880.00	9400	4.196
	1907.60	9538	4.336

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.216
	1732.60	1413	4.446
	1752.60	1513	4.382

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSUPA V	826.40	4132	4.392
	836.60	4183	4.321
	846.60	4233	4.443

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99% & 20dB Bandwidth Test Data

Figure 8-1: GPRS 850 Channel Low

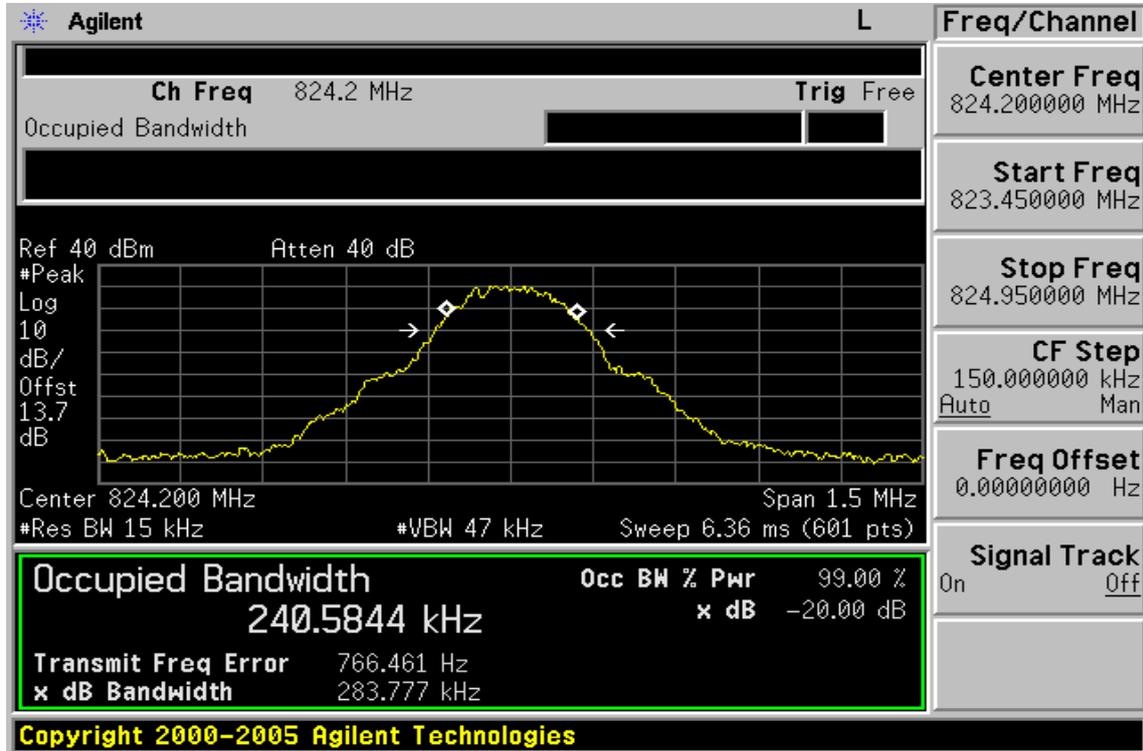
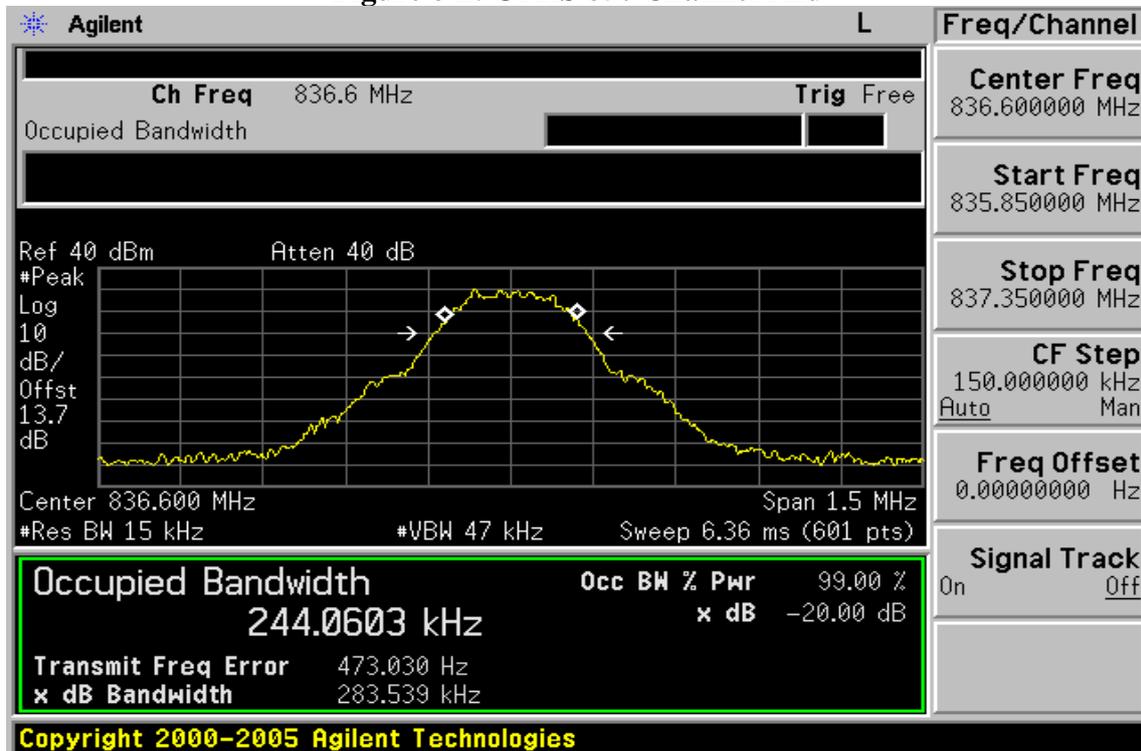


Figure 8-2: GPRS 850 Channel Mid



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Figure 8-3: GPRS 850 Channel High

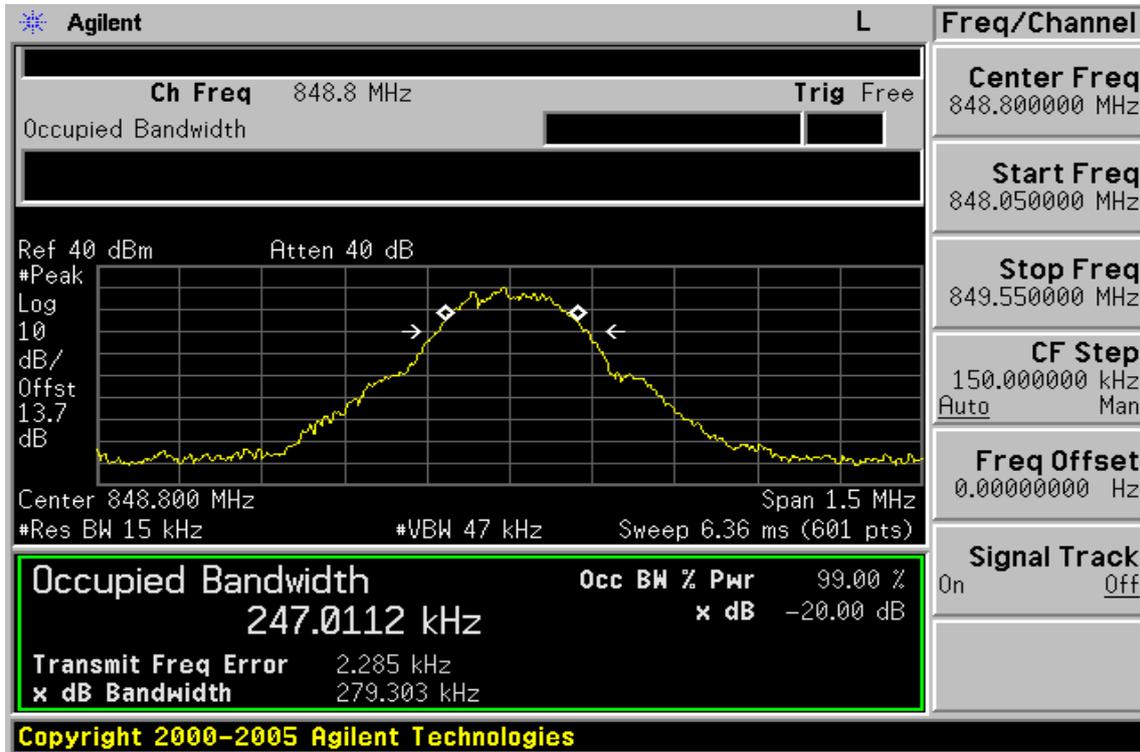
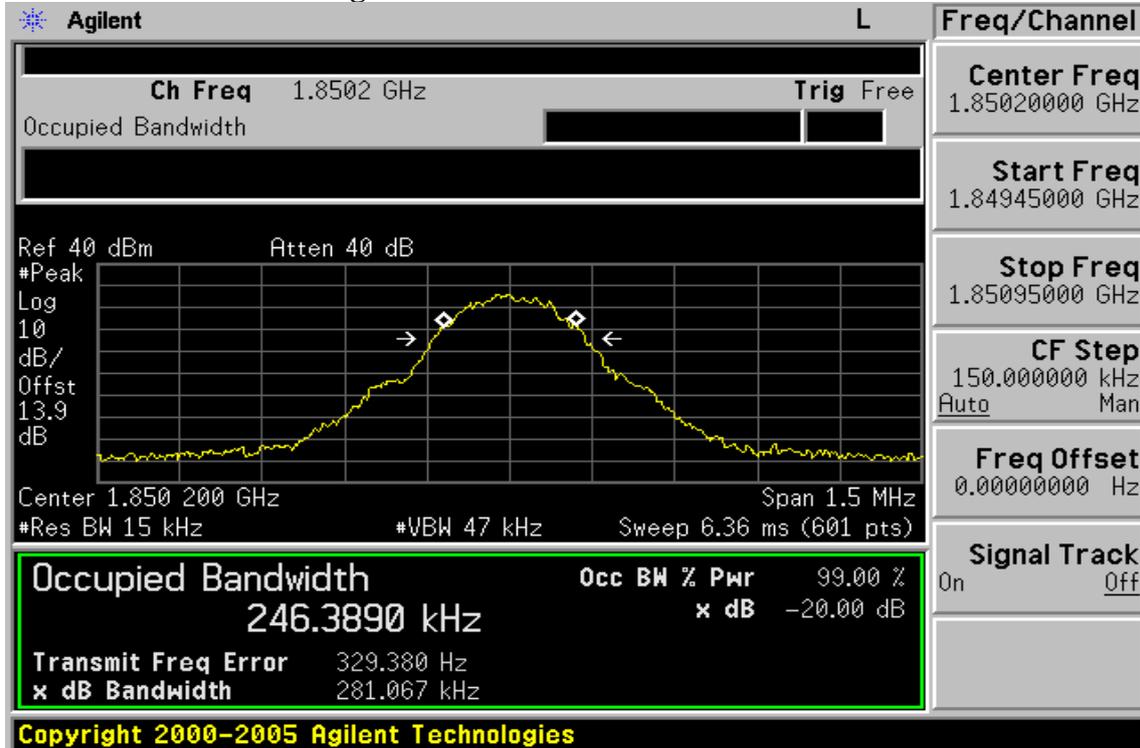


Figure 8-4: GPRS 1900 Channel Low



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Figure 8-5: GPRS 1900 Channel Mid

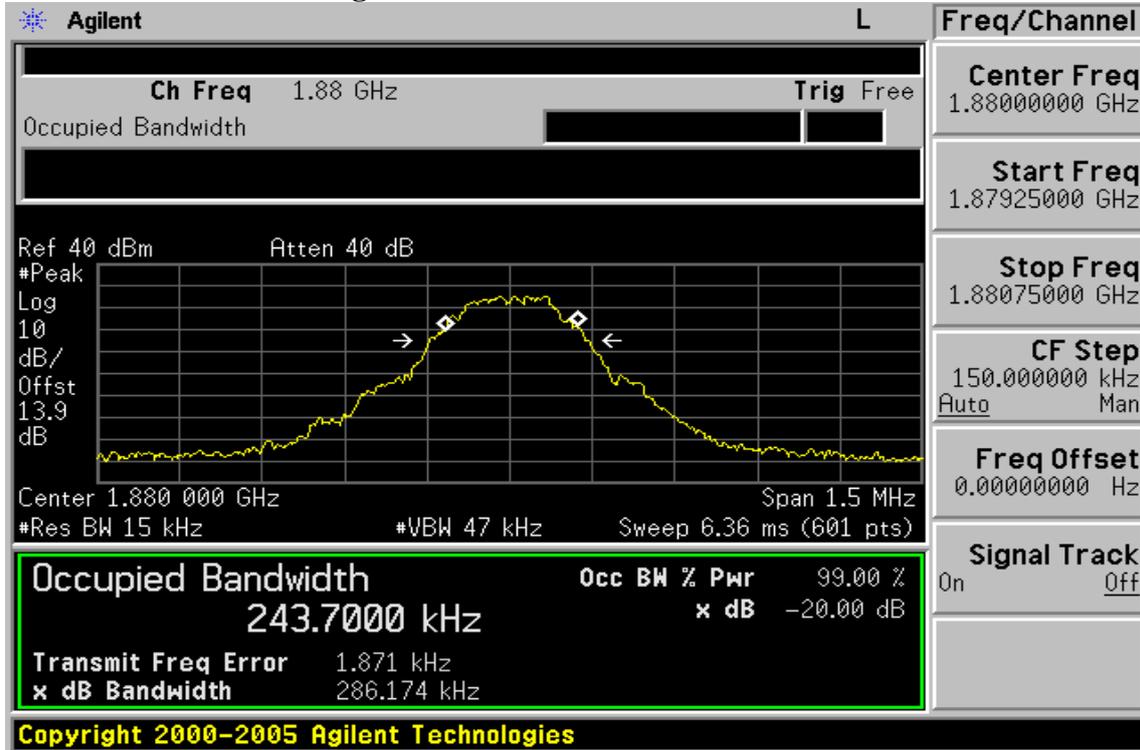
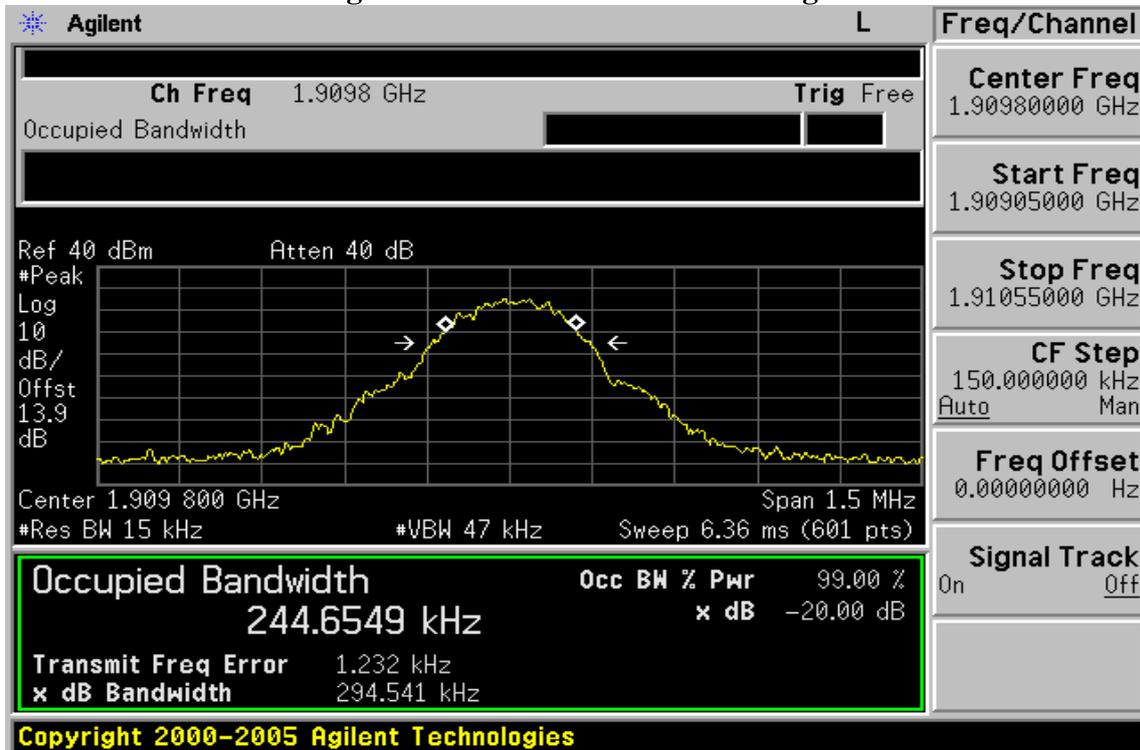


Figure 8-6: GPRS 1900 Channel High



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Figure 8-7: EDGE 850 Channel Low

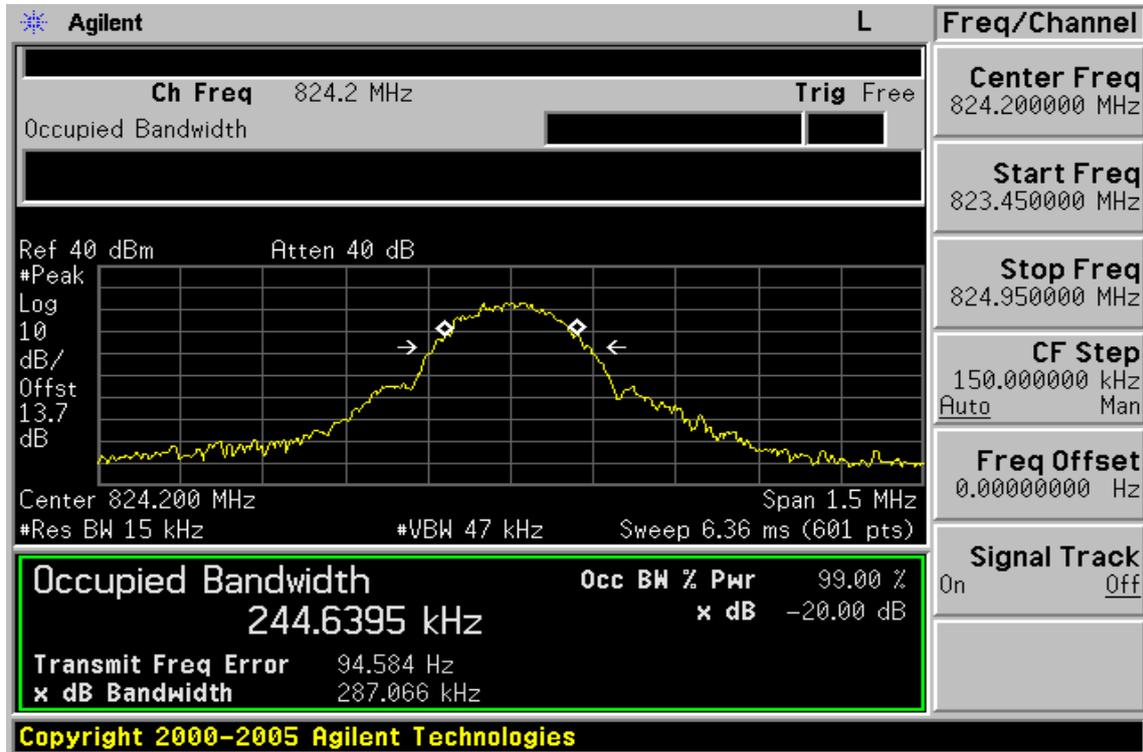
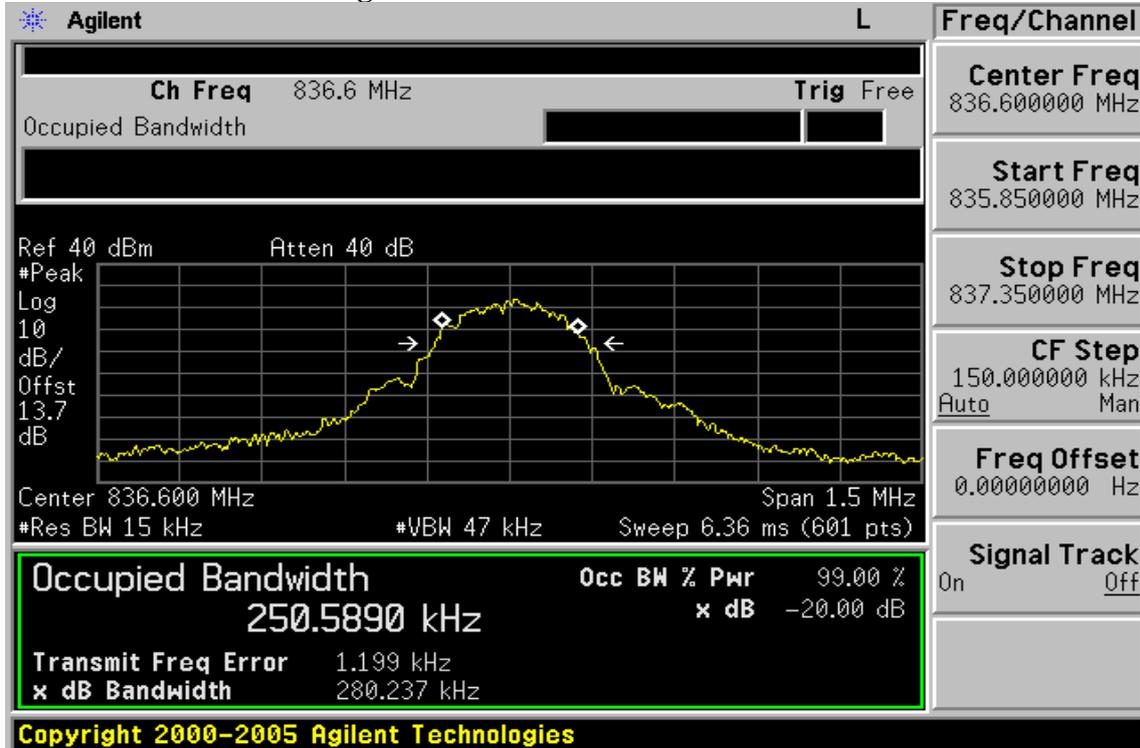


Figure 8-8: EDGE 850 Channel Mid



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GPRS Figure 8-9: EDGE 850 Channel High

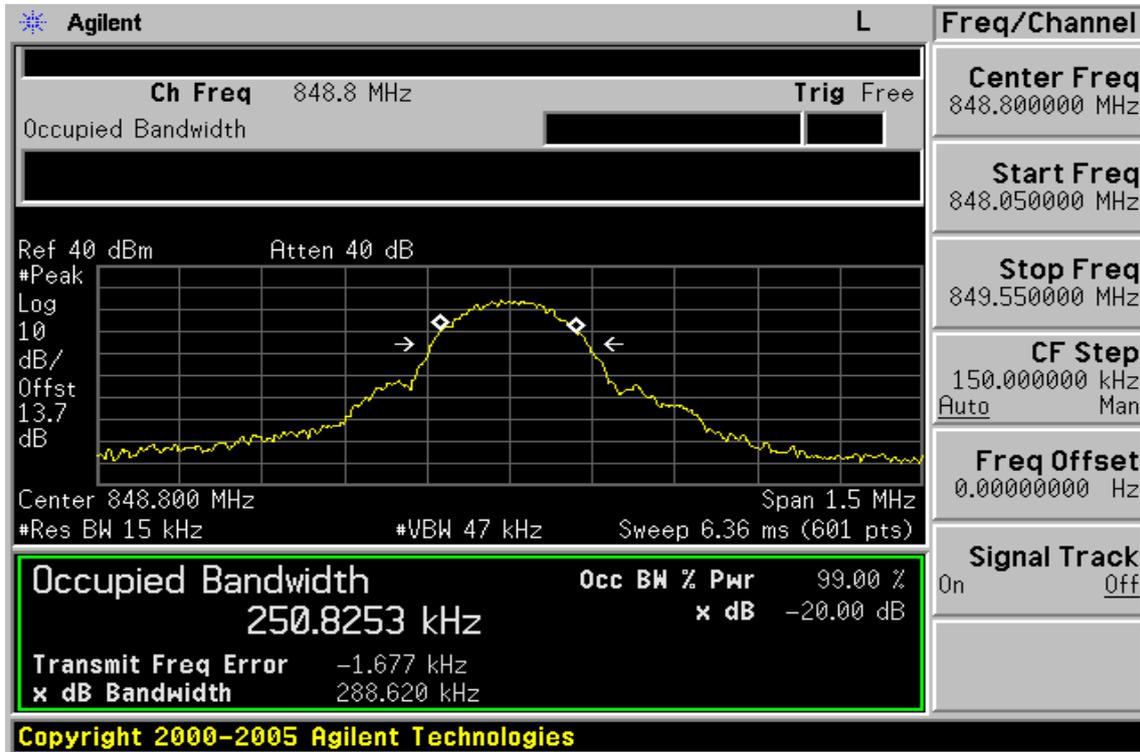
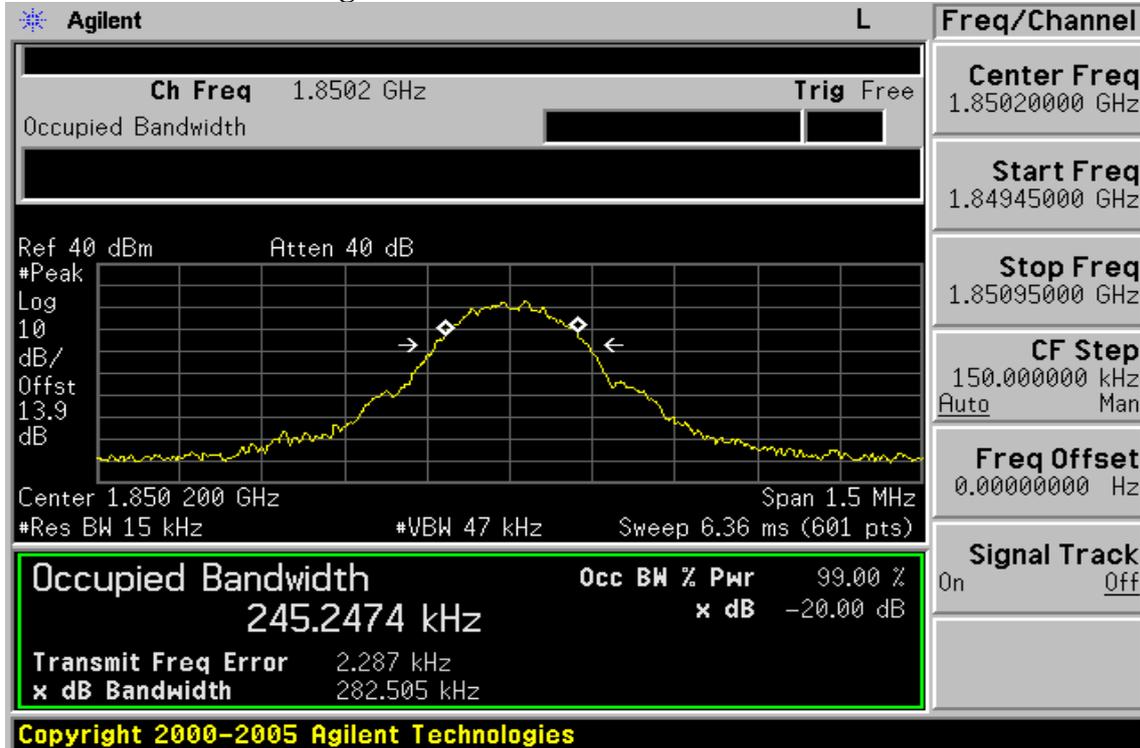


Figure 8-10: EDGE 1900 Channel Low



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Figure 8-11: EDGE 1900 Channel Mid

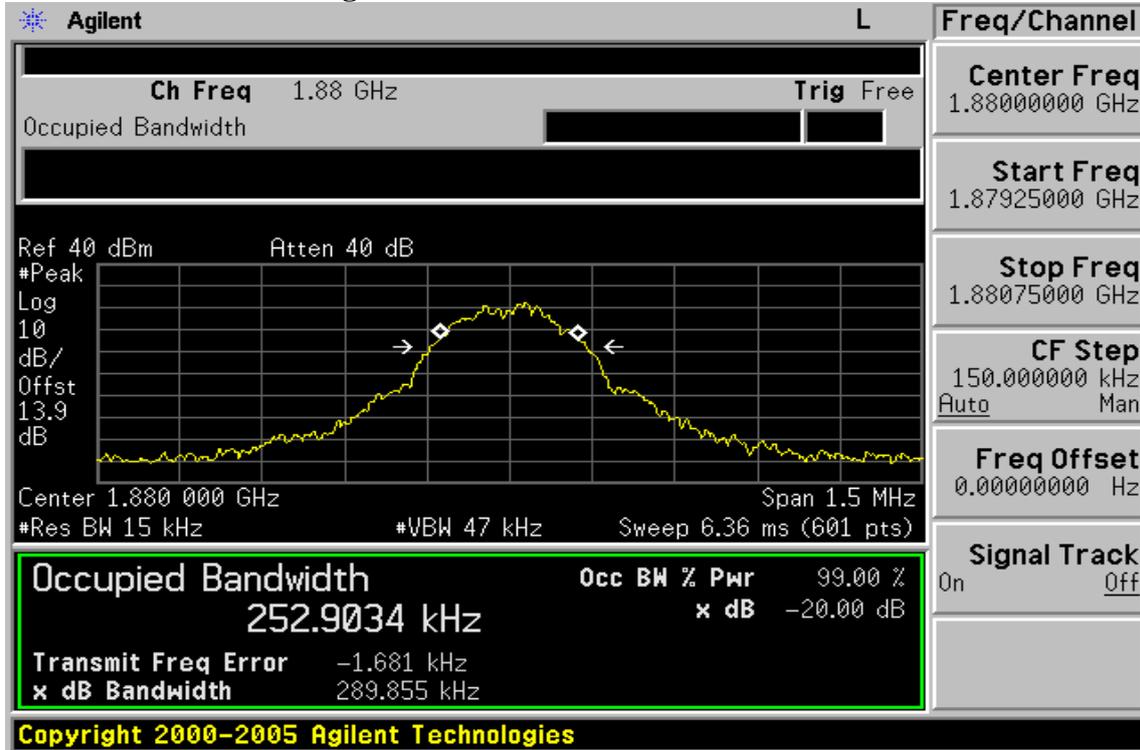
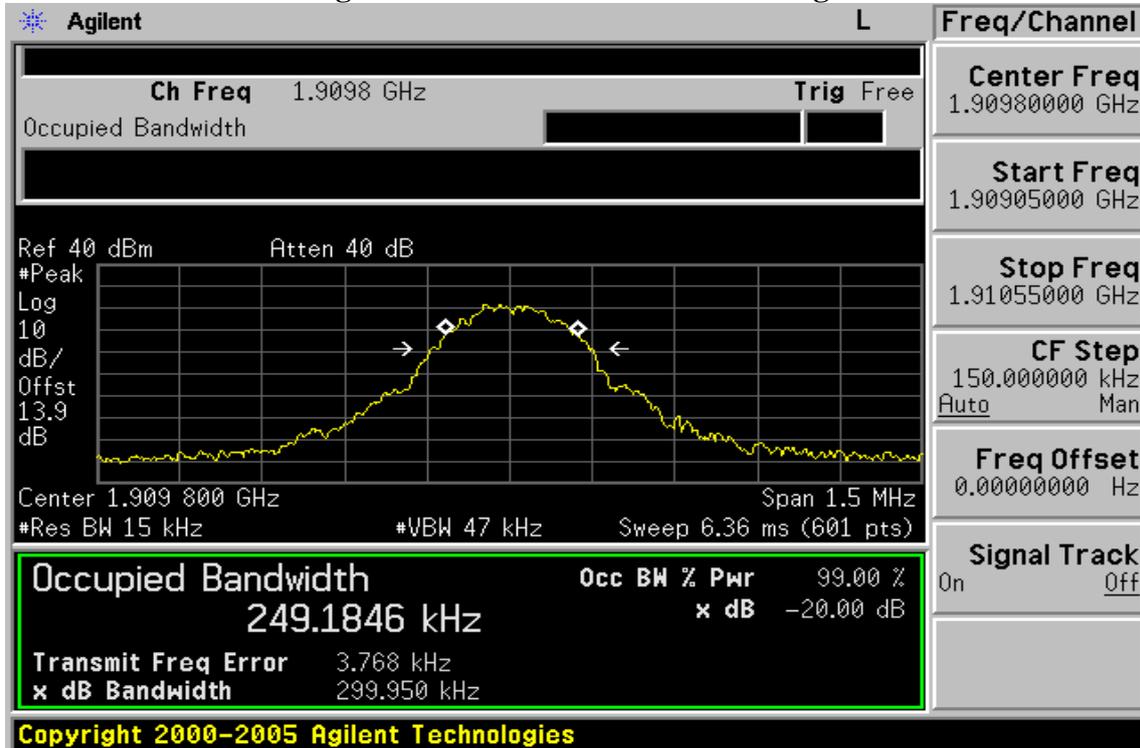


Figure 8-12: EDGE 1900 Channel High



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Figure 8-13: WCDMA II Channel Low

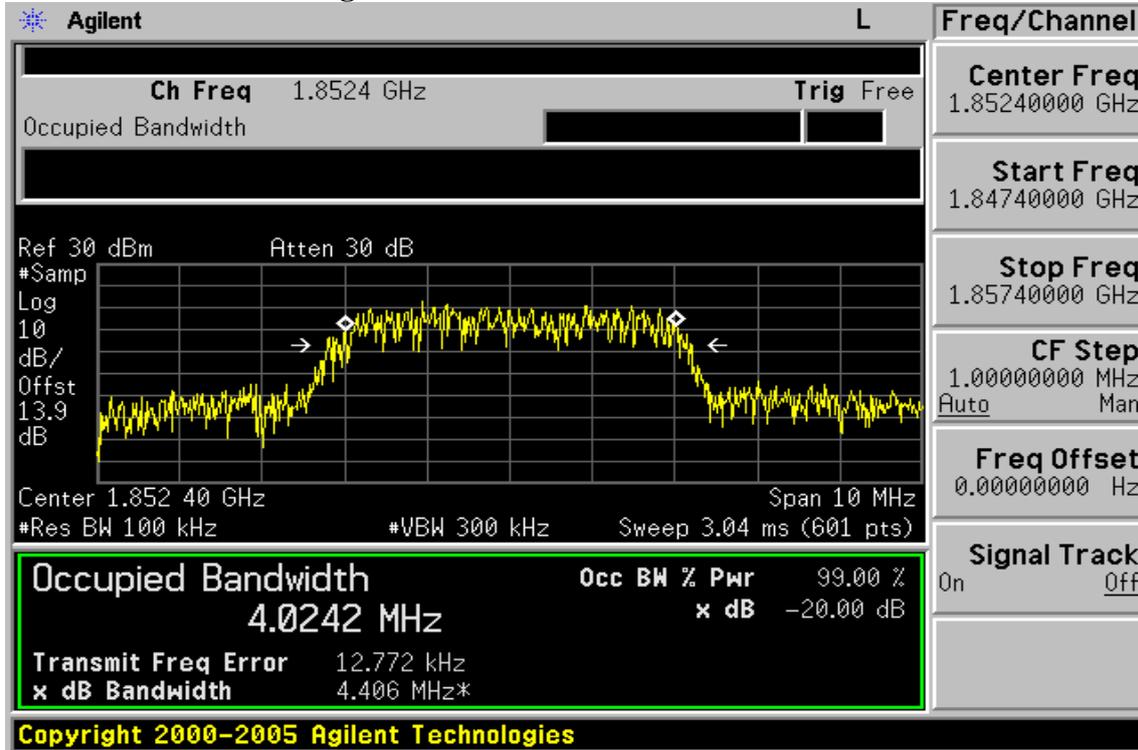
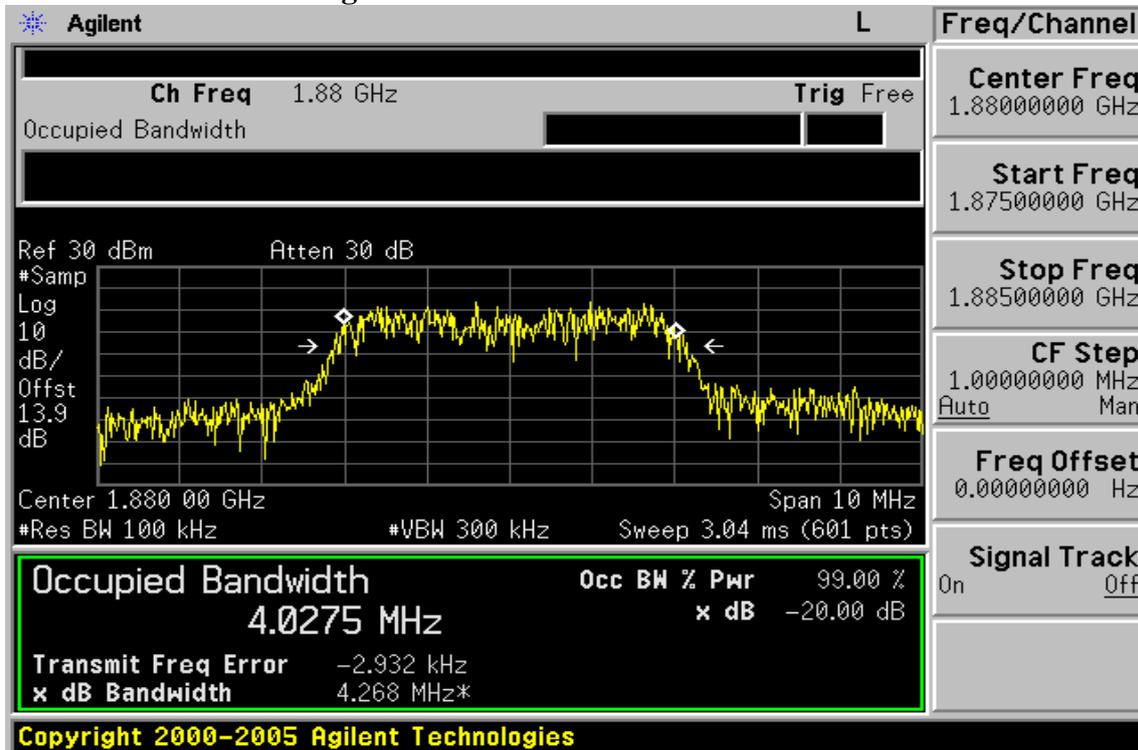


Figure 8-14: WCDMA II Channel Mid



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Figure 8-15: WCDMA II Channel High

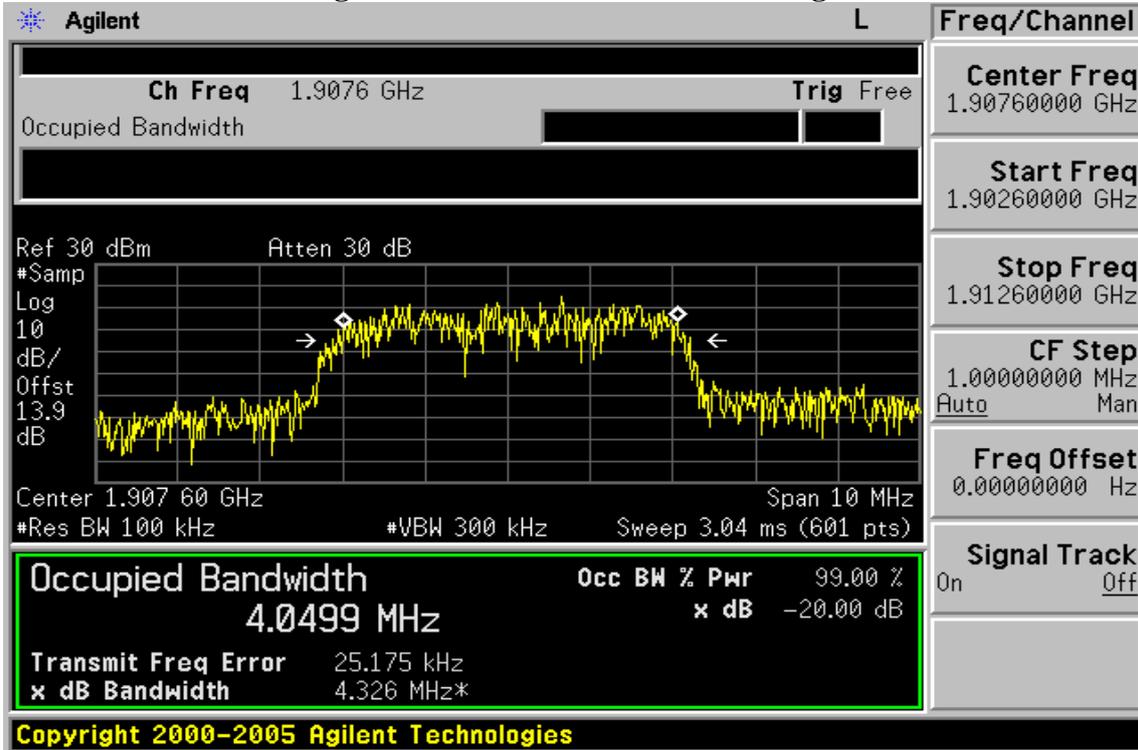
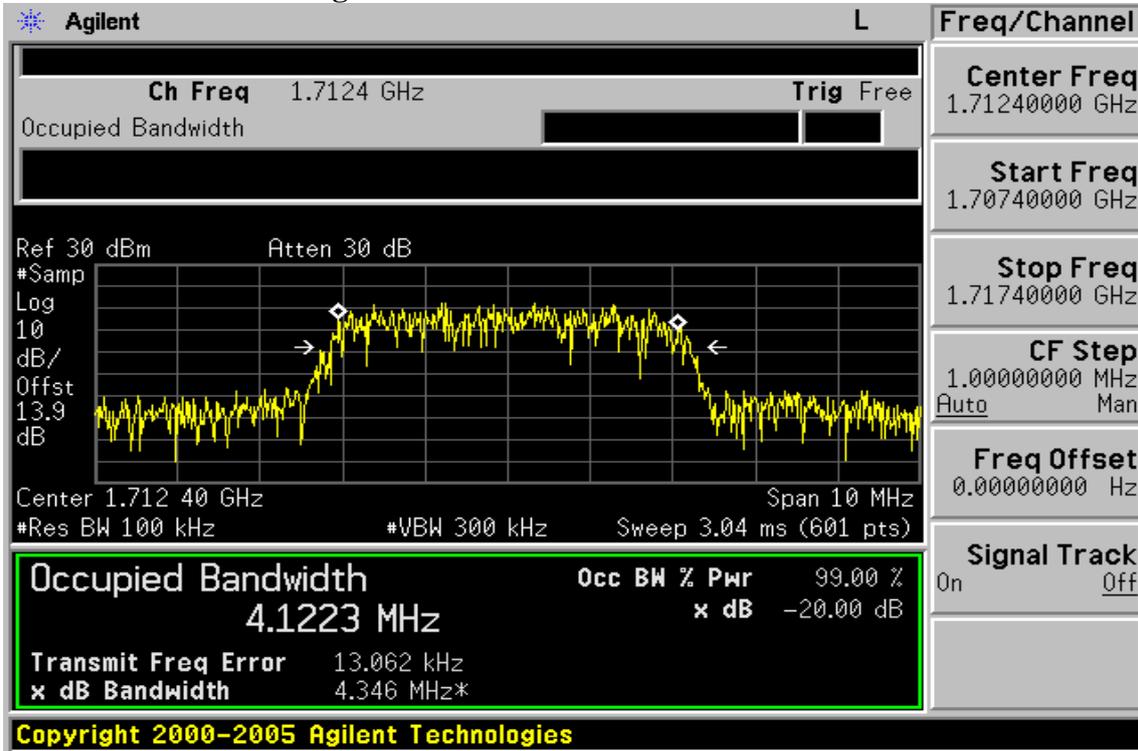


Figure 8-16: WCDMA IV Channel Low



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Figure 8-17: WCDMA IV Channel Mid

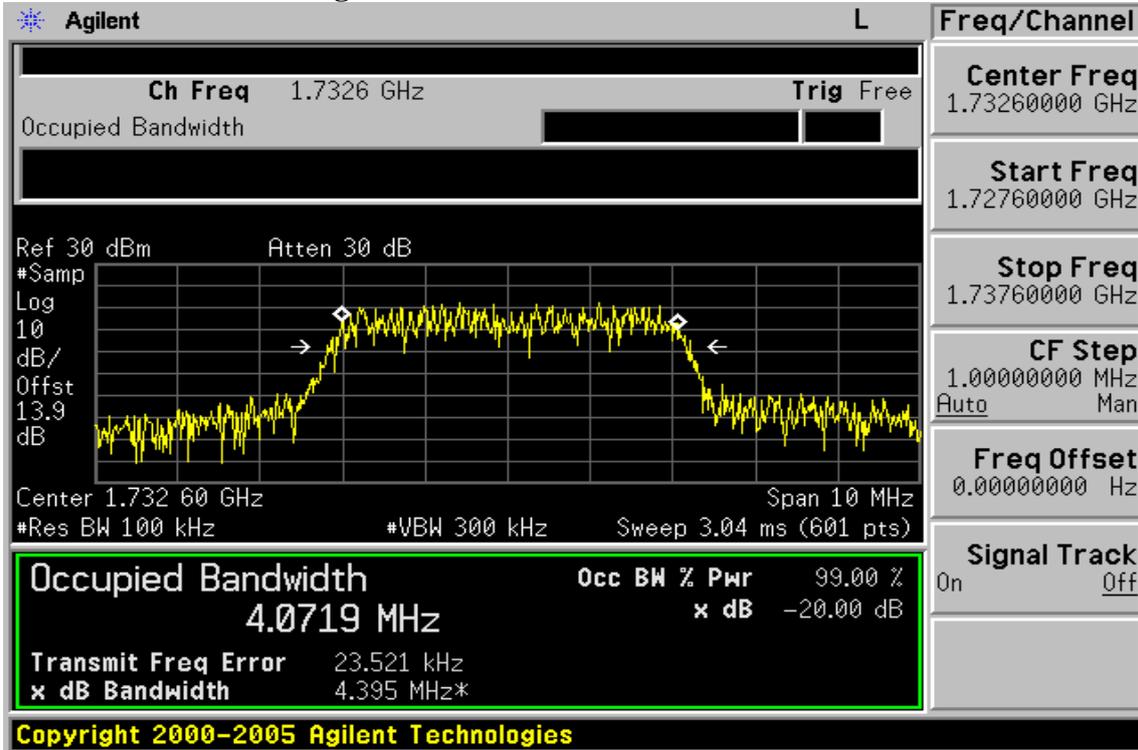
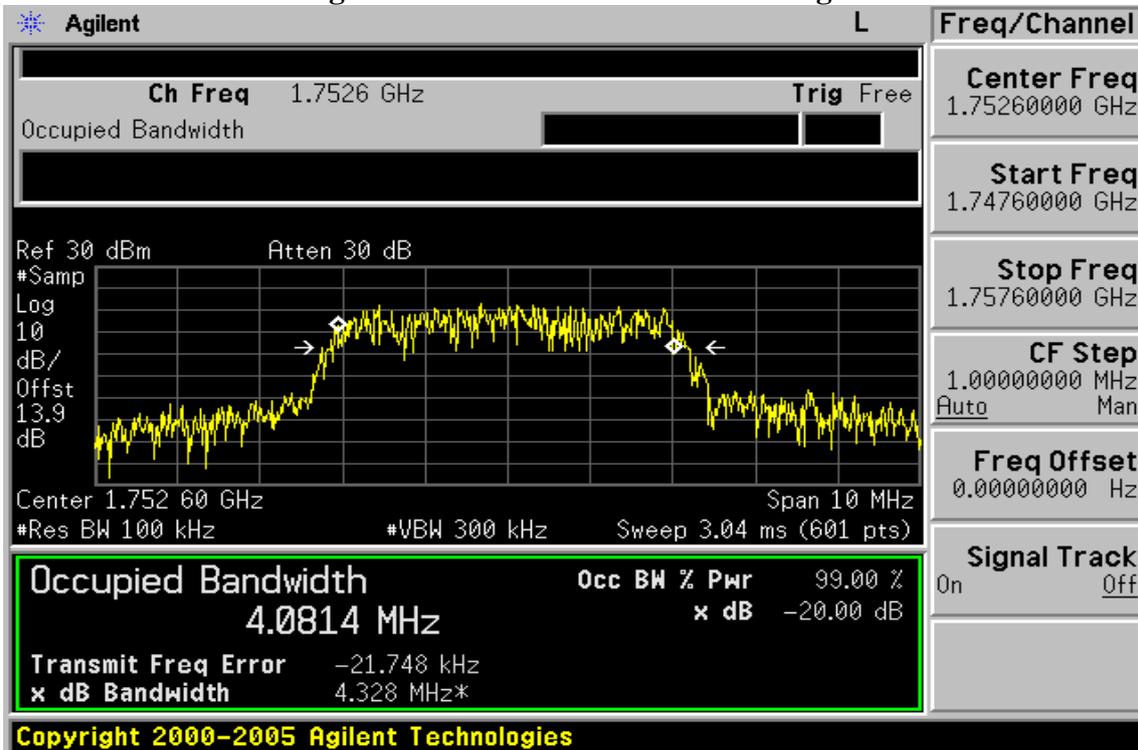


Figure 8-18: WCDMA IV Channel High



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Figure 8-19: WCDMA V Channel Low

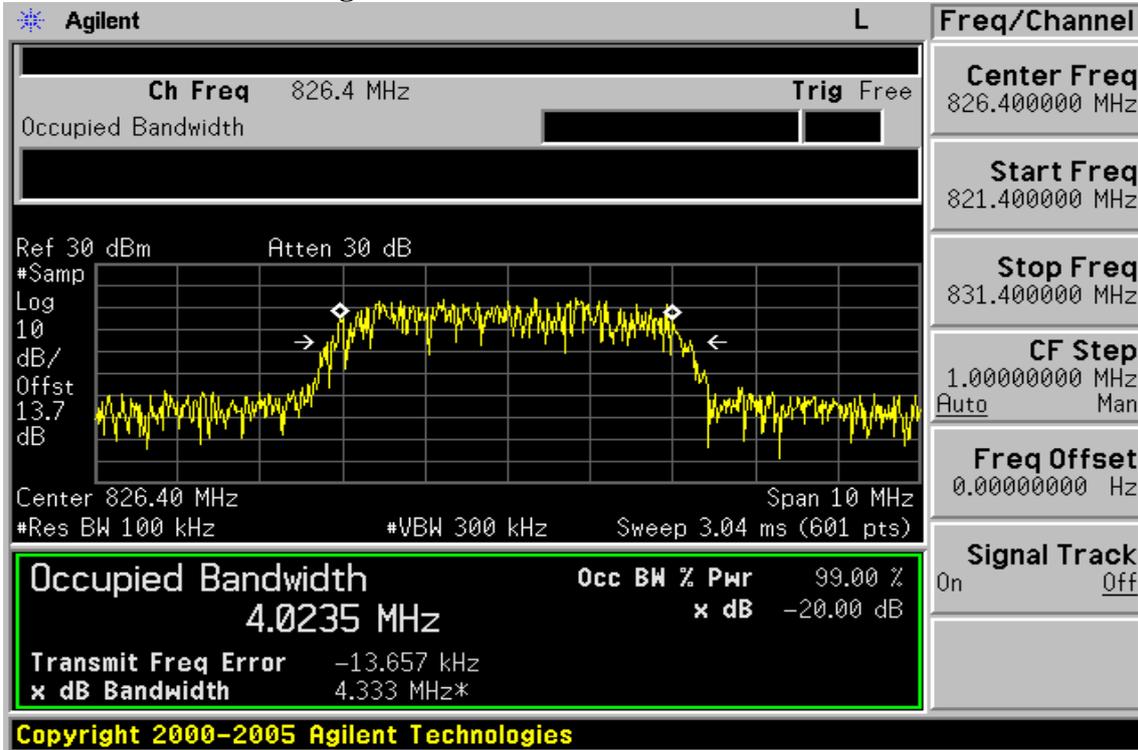
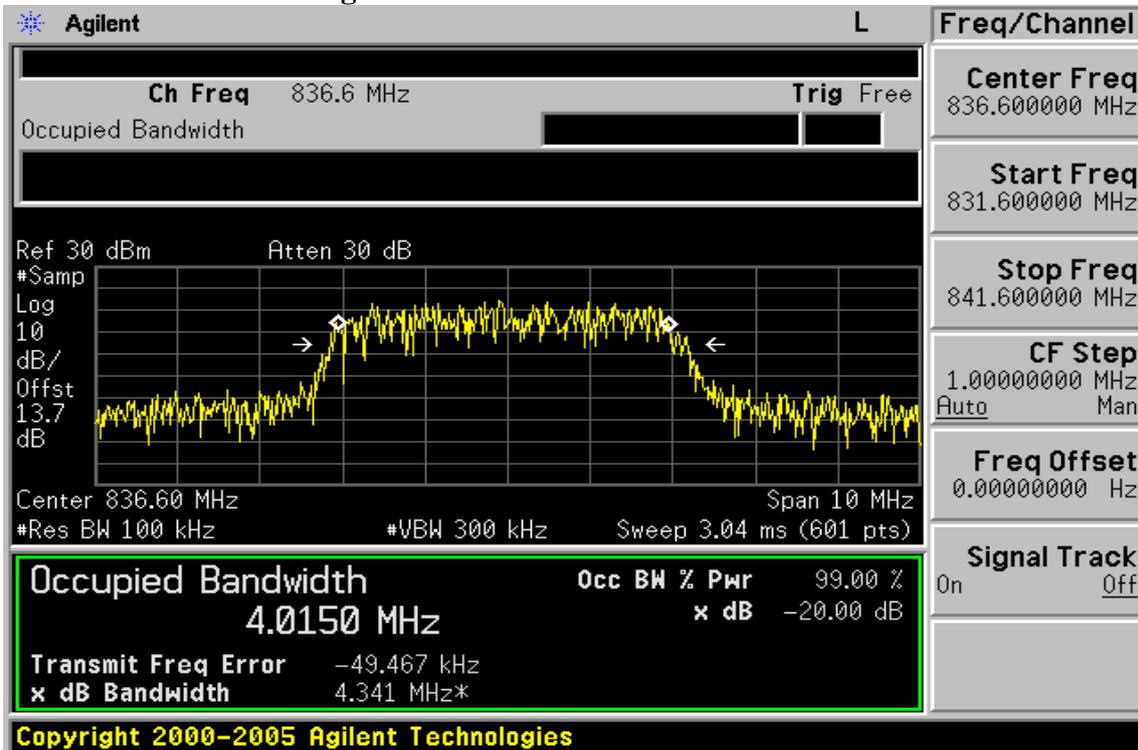


Figure 8-20: WCDMA V Channel Mid



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Figure 8-21: WCDMA V Channel High

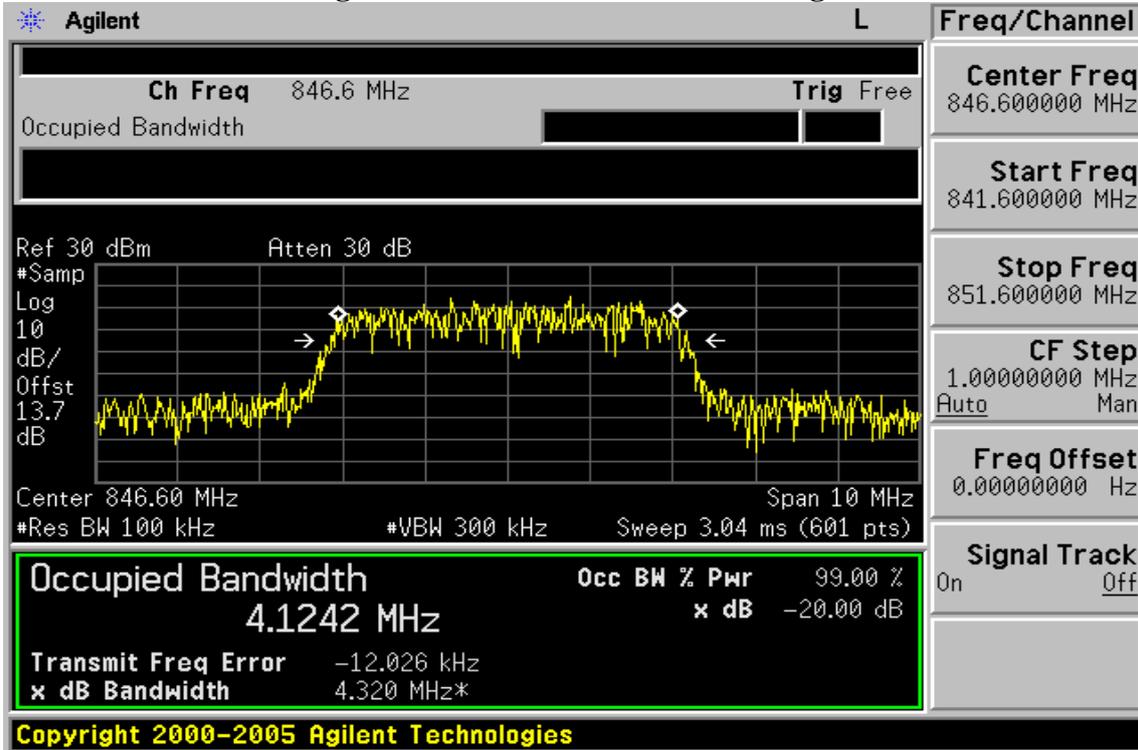
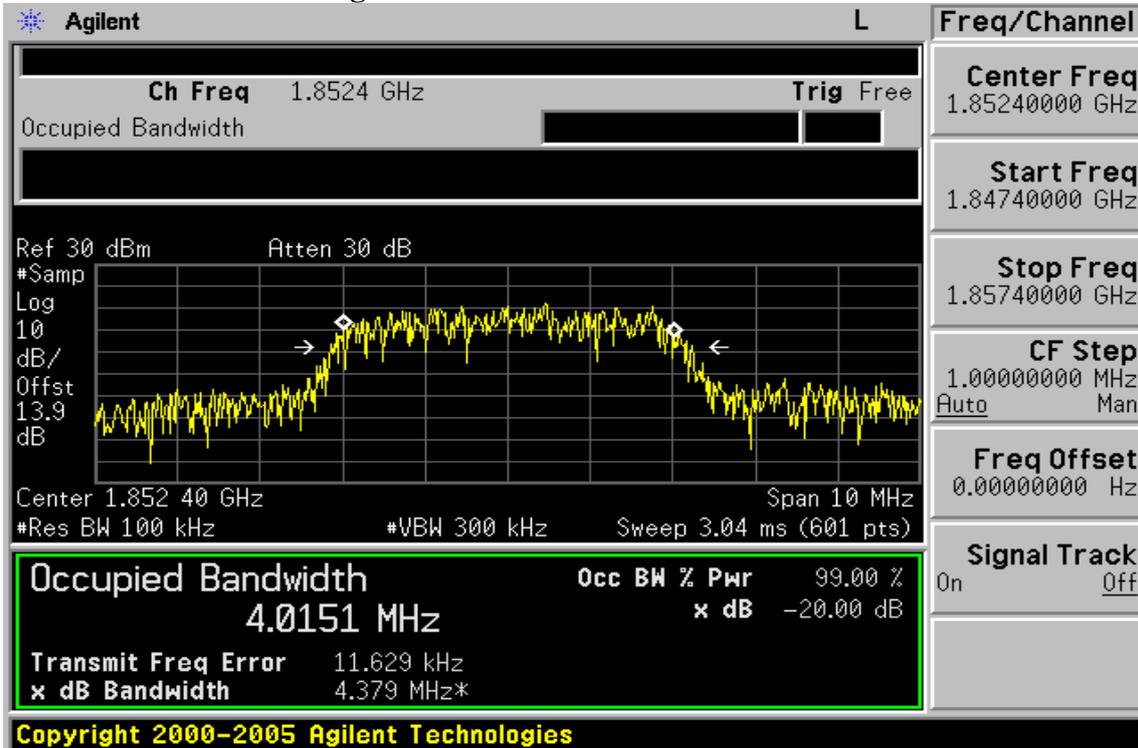


Figure 8-22: HSDPA II Channel Low



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Figure 8-23: HSDPA II Channel Mid

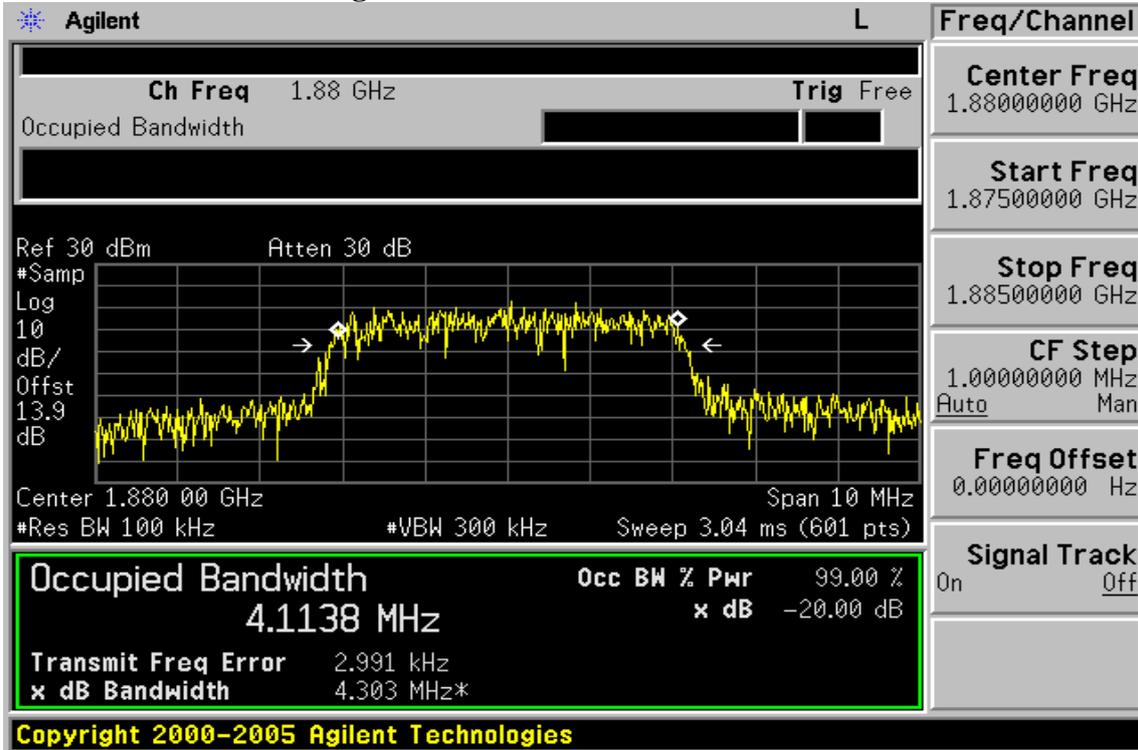
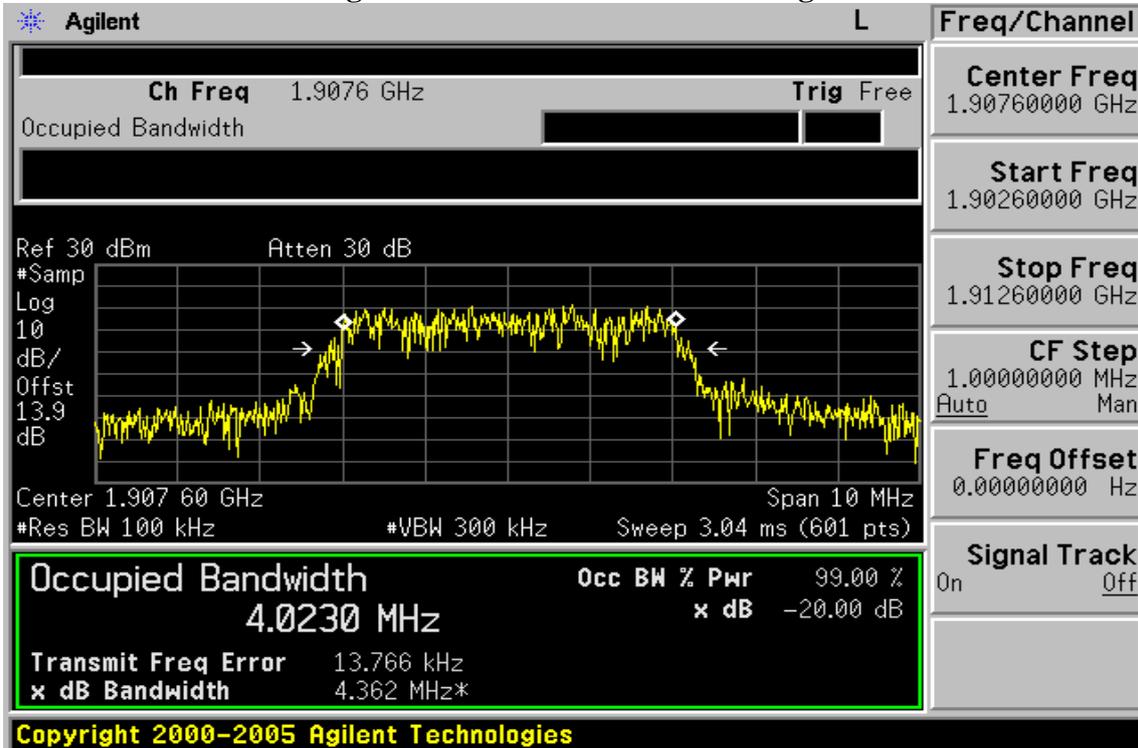


Figure 8-24: HSDPA II Channel High



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Figure 8-25: HSDPA IV Channel Low

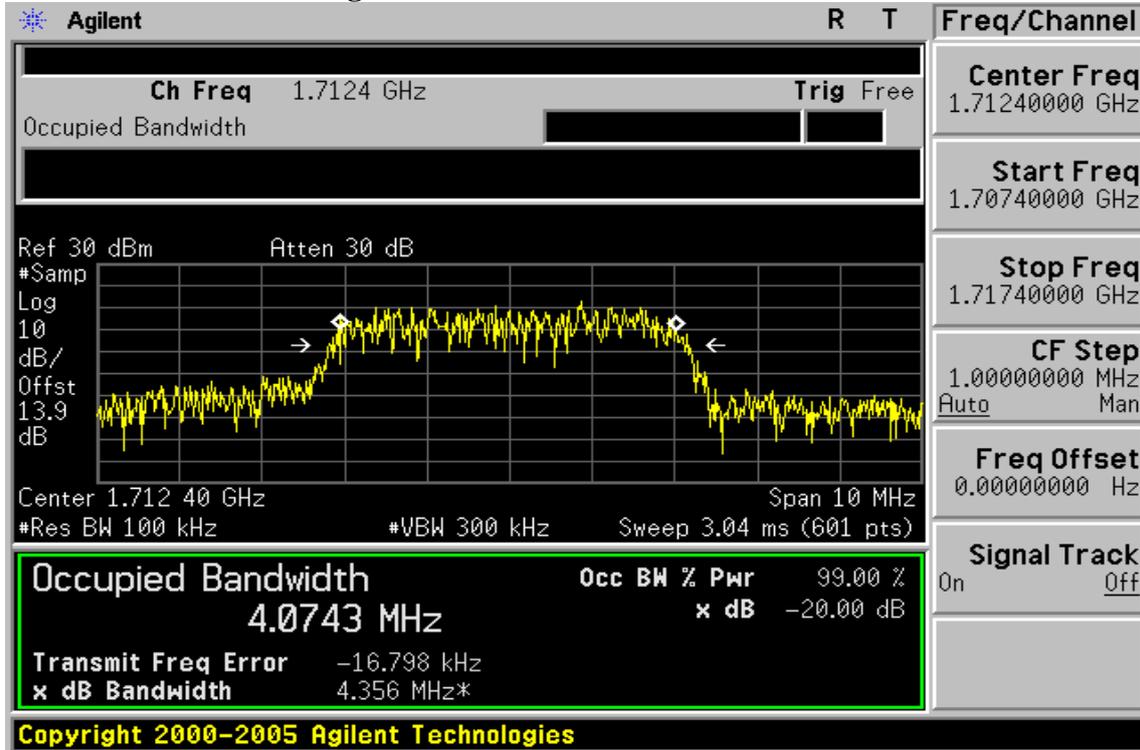
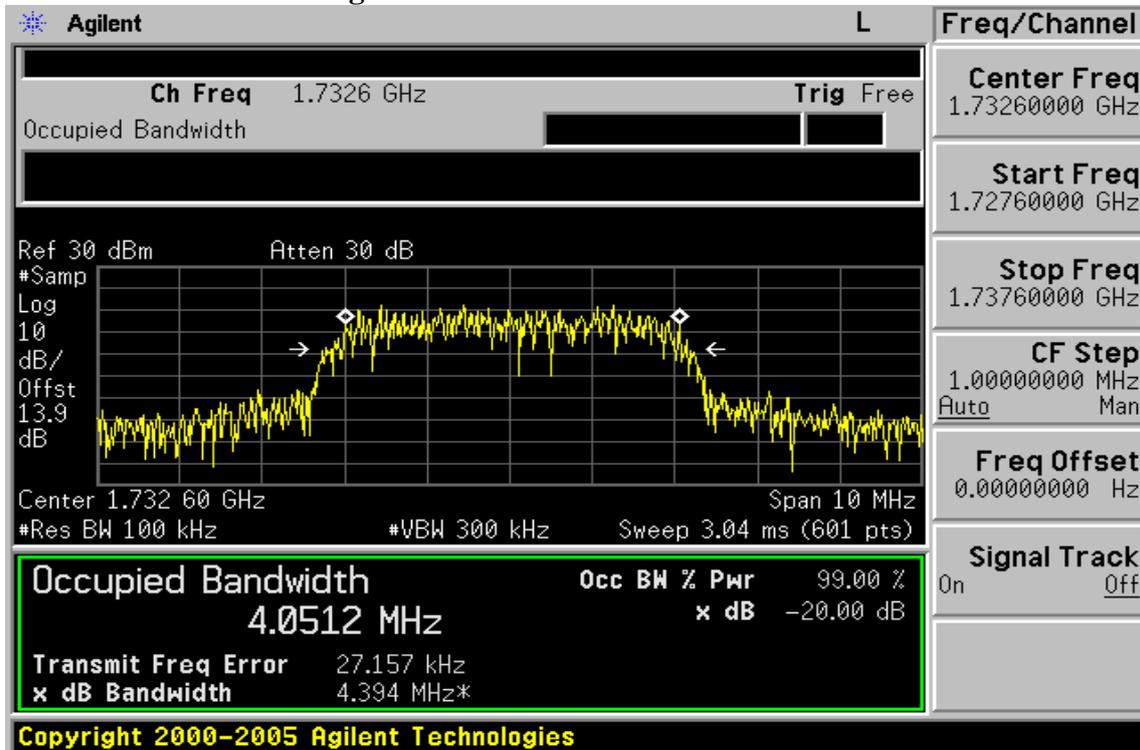


Figure 8-26: HSDPA IV Channel Mid



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Figure 8-27: HSDPA IV Channel High

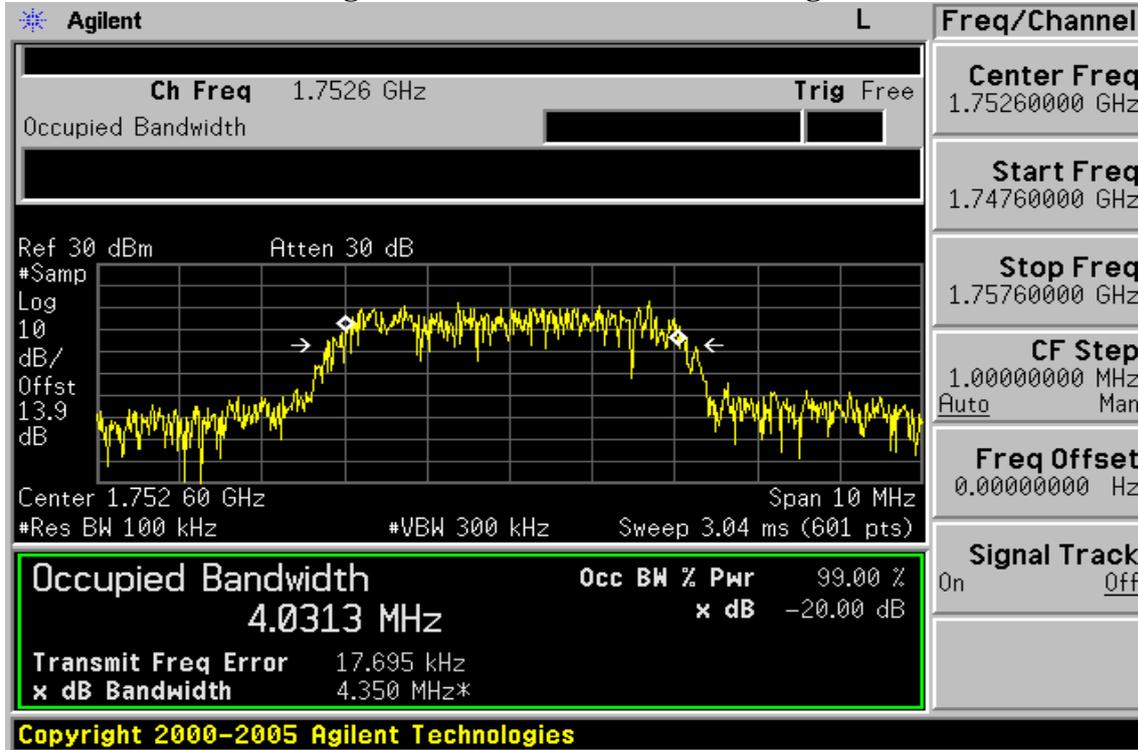
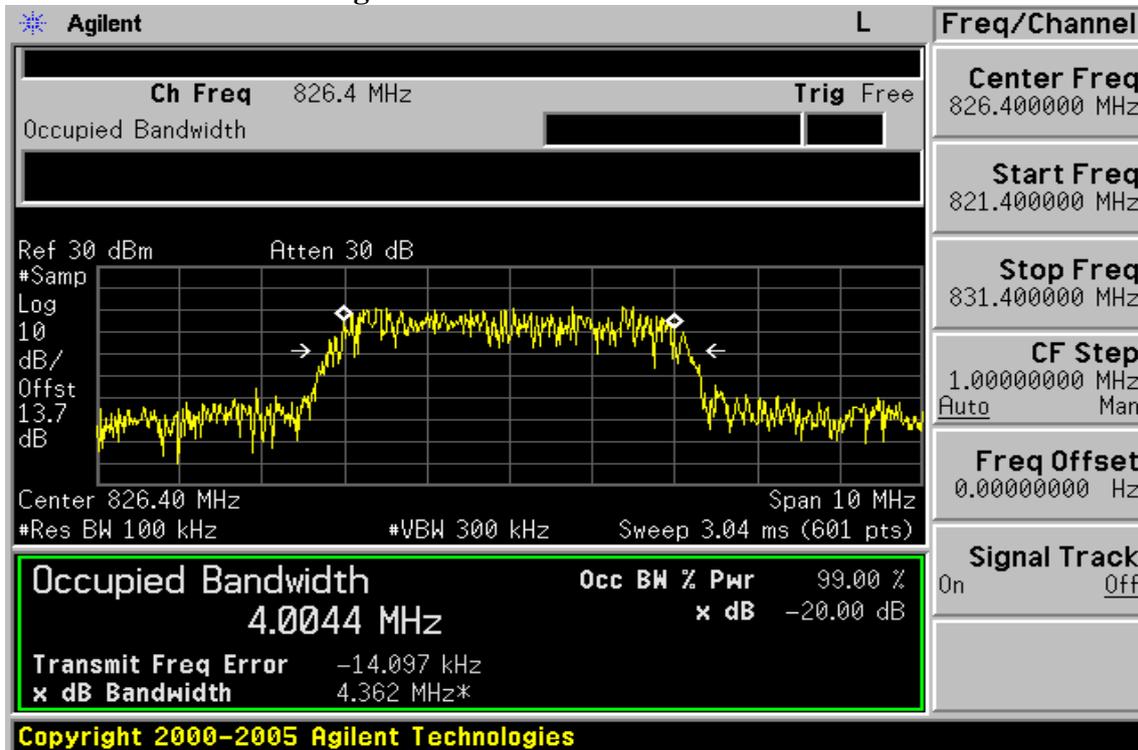


Figure 8-28: HSDPA V Channel Low



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Figure 8-29: HSDPA V Channel Mid

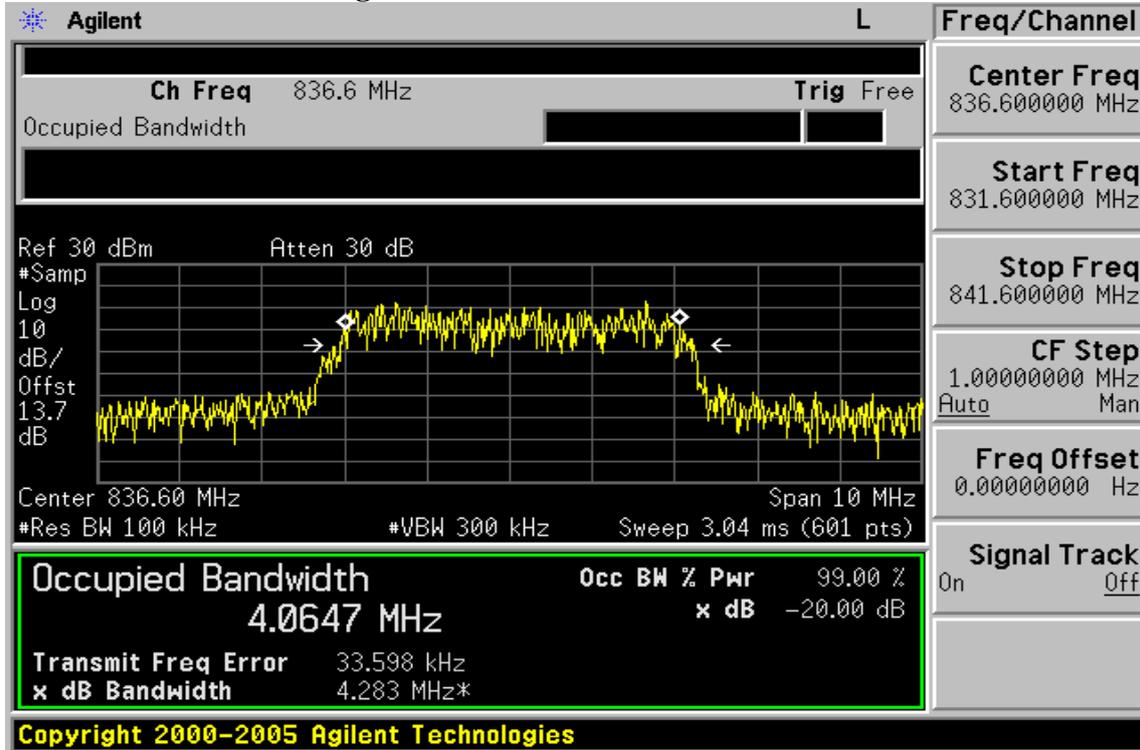
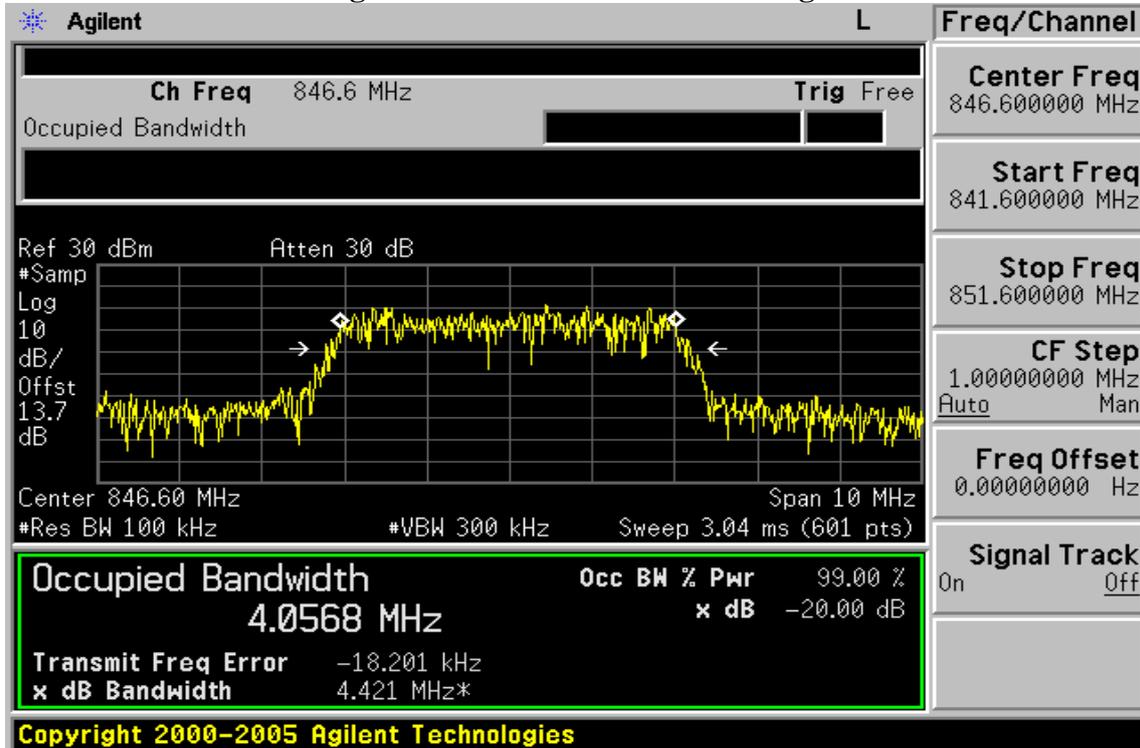


Figure 8-30: HSDPA V Channel High



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Figure 8-31: HSUPA II Channel Low

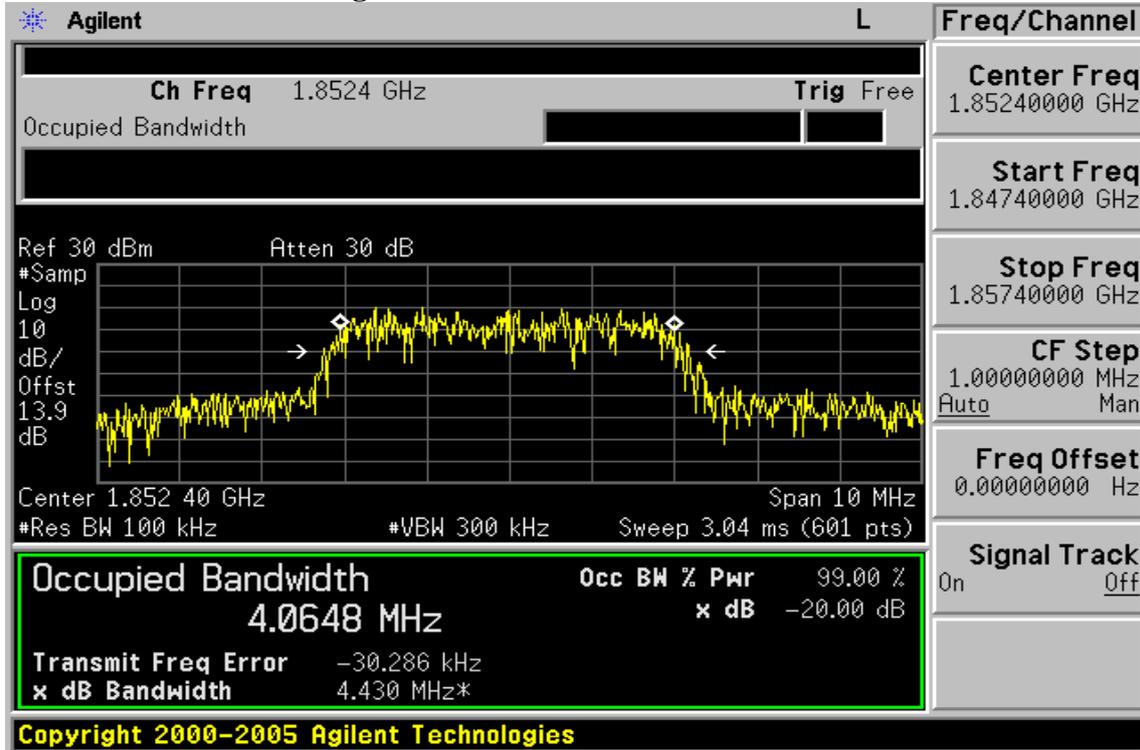
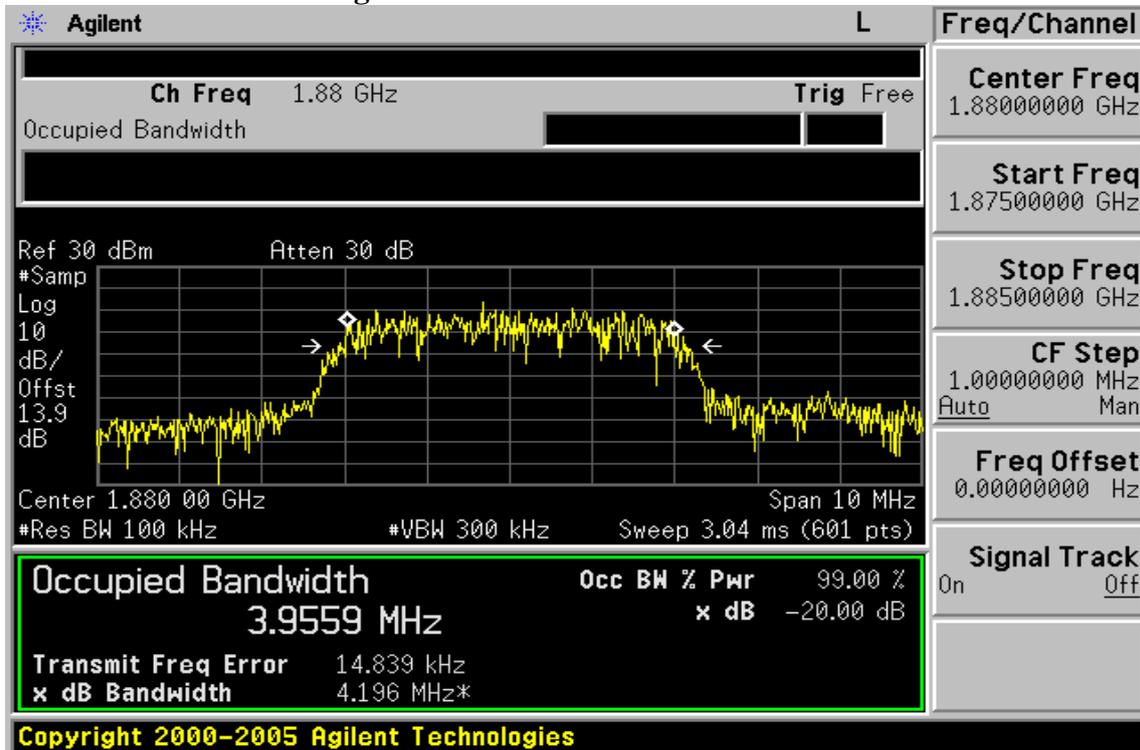


Figure 8-32: HSUPA II Channel Mid



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Figure 8-33: HSUPA II Channel High

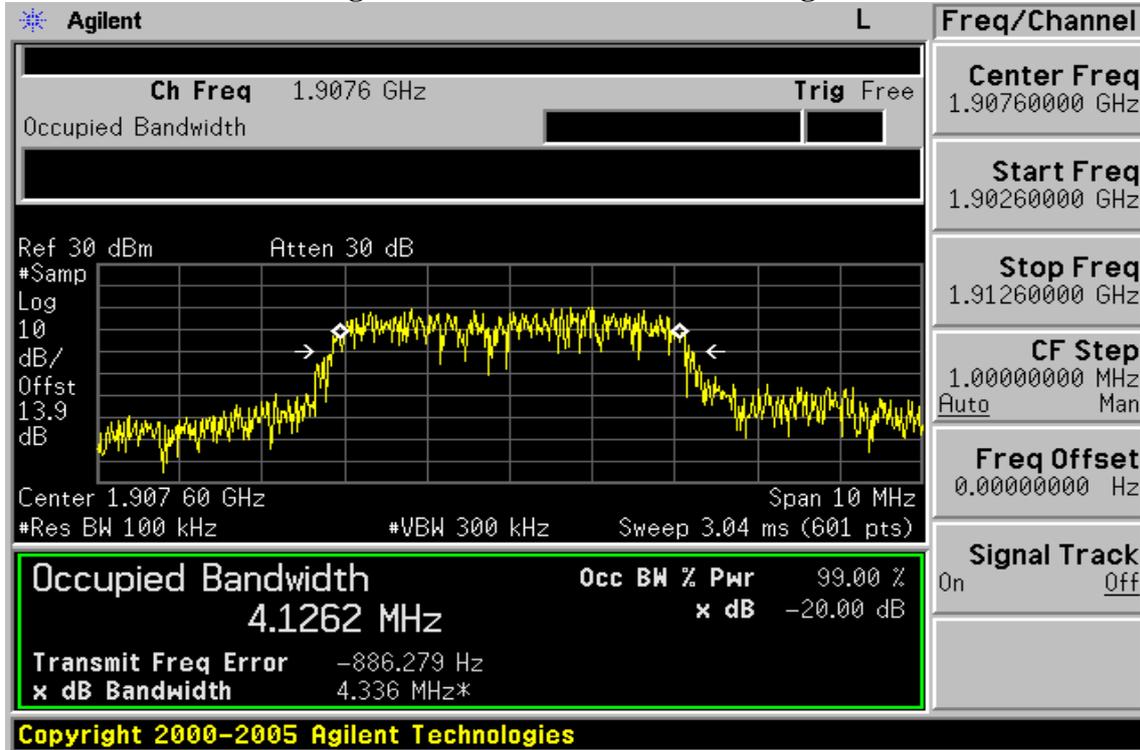
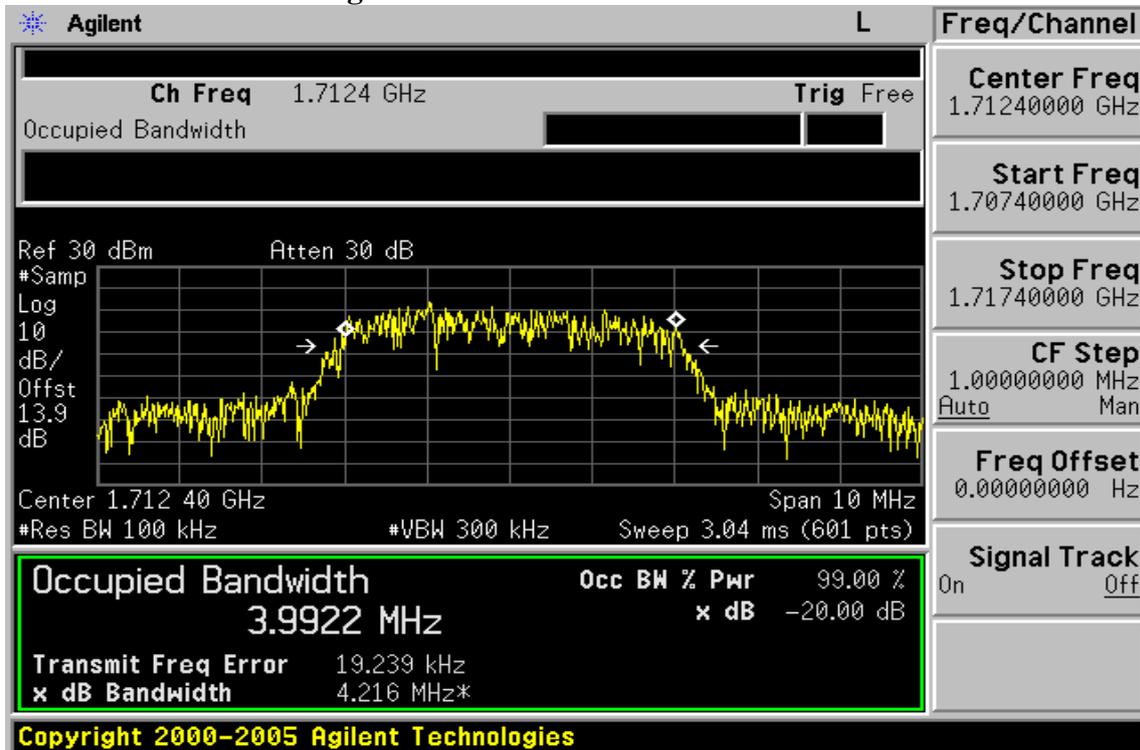


Figure 8-34: HSUPA IV Channel Low



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Figure 8-35: HSUPA IV Channel Mid

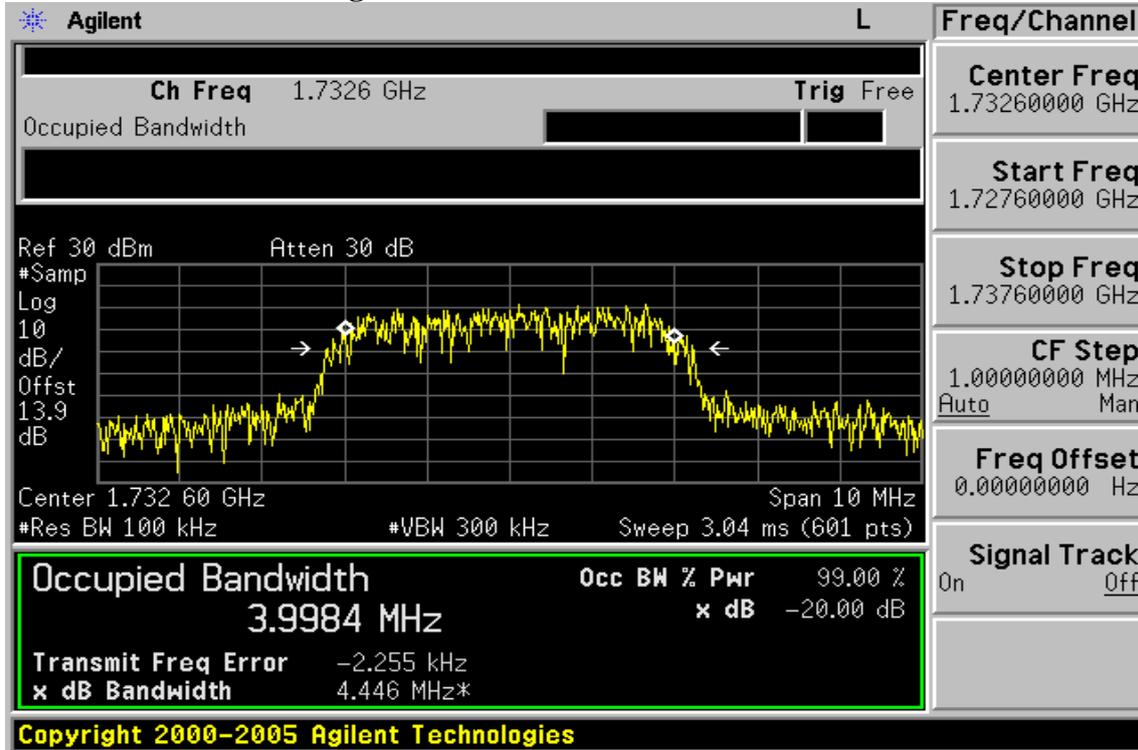
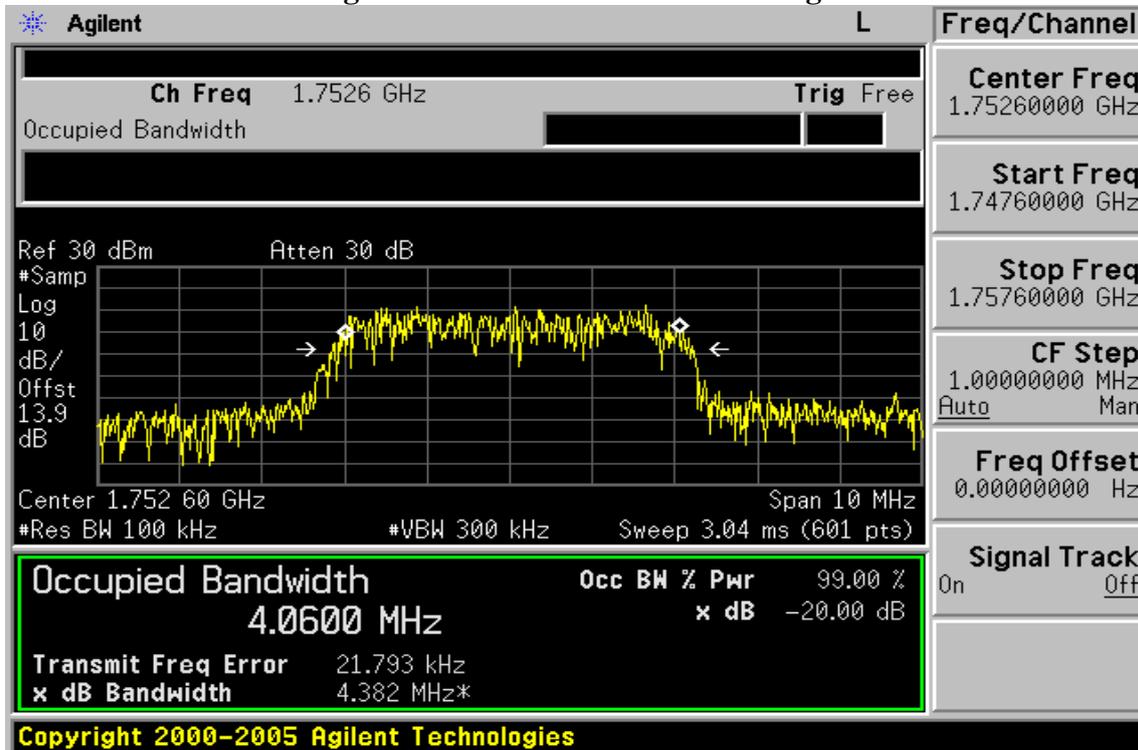


Figure 8-36: HSUPA IV Channel High



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Figure 8-37: HSUPA V Channel Low

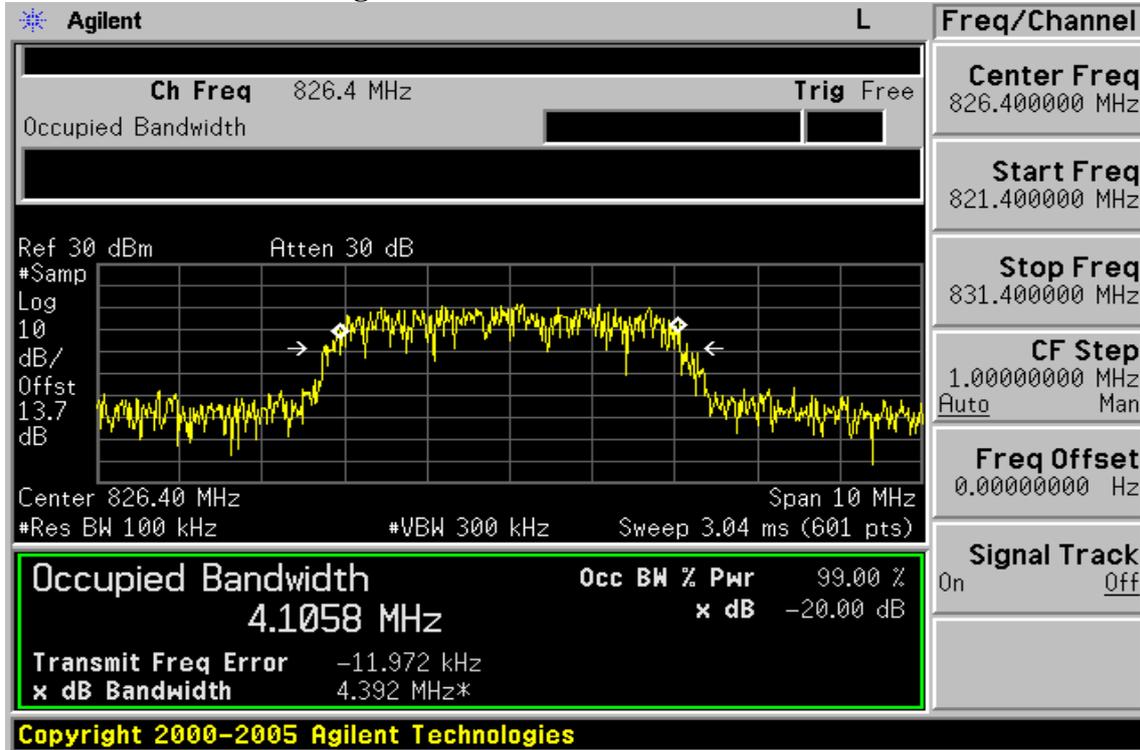
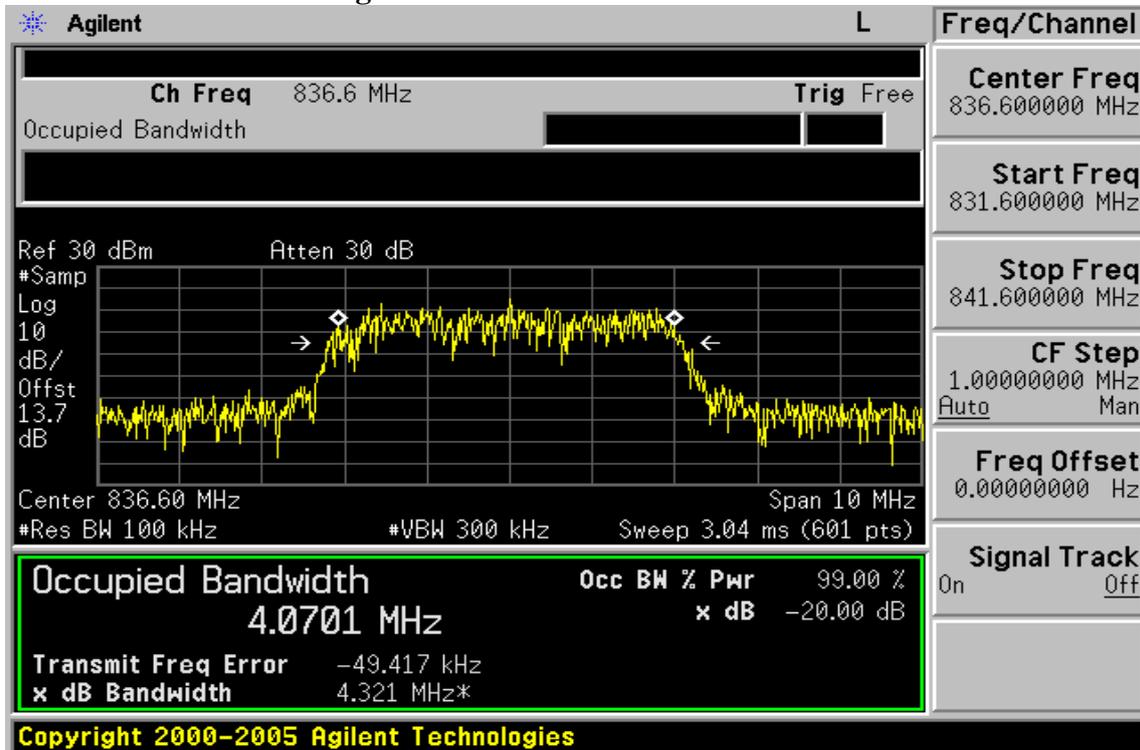


Figure 8-38: HSUPA V Channel Mid



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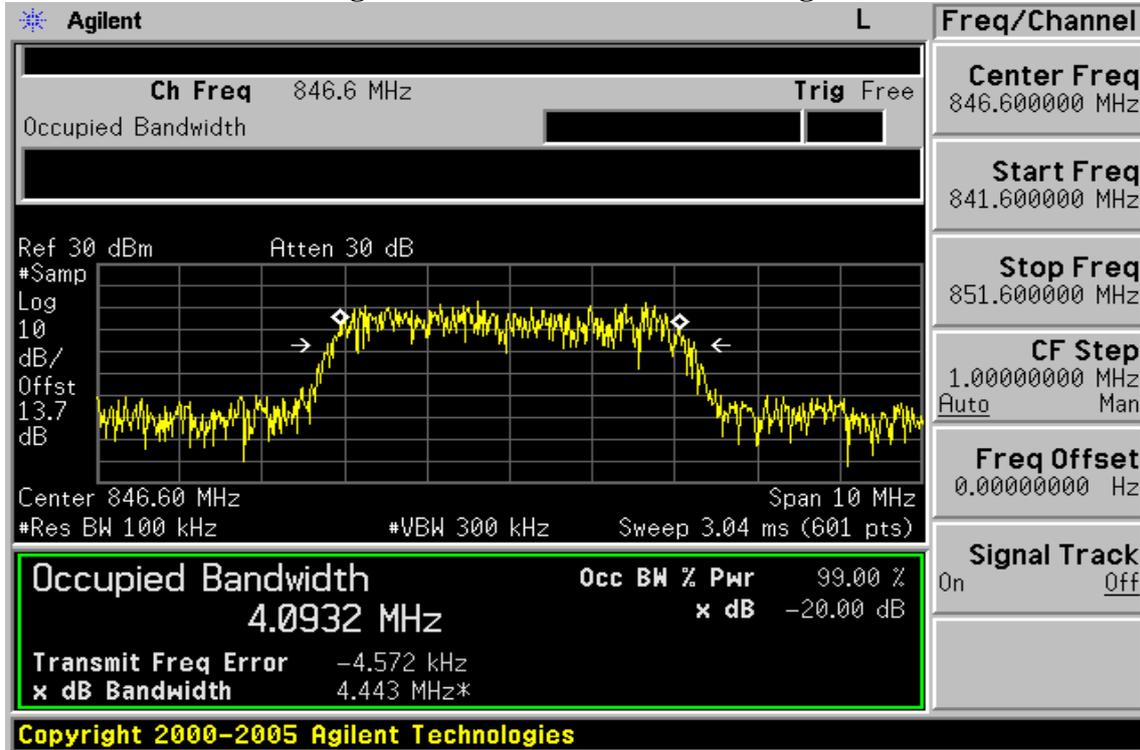
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Figure 8-39: HSUPA V Channel High



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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(h) 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).

100KHz Bandedge:

FCC §27.53(h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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According to RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 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 (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

According to RSS-139 §6.5

For Operation Band 1710-1755MHz and 2110-2155MHz

(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. Limit = 13dBm

(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. Limit = -13dBm

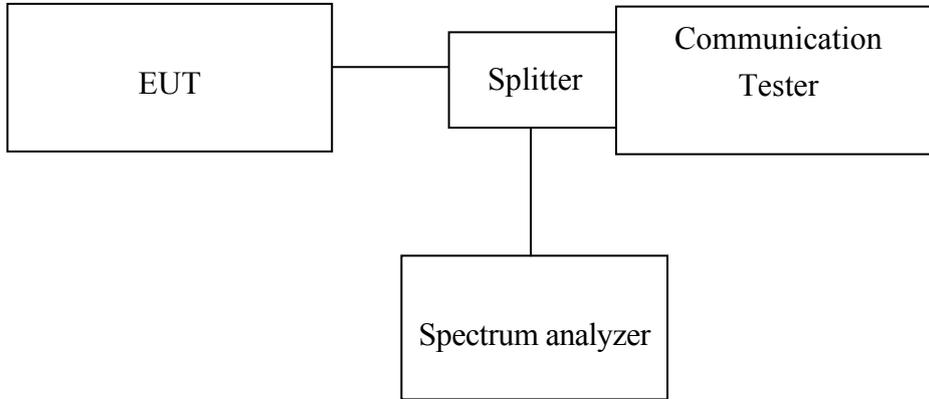
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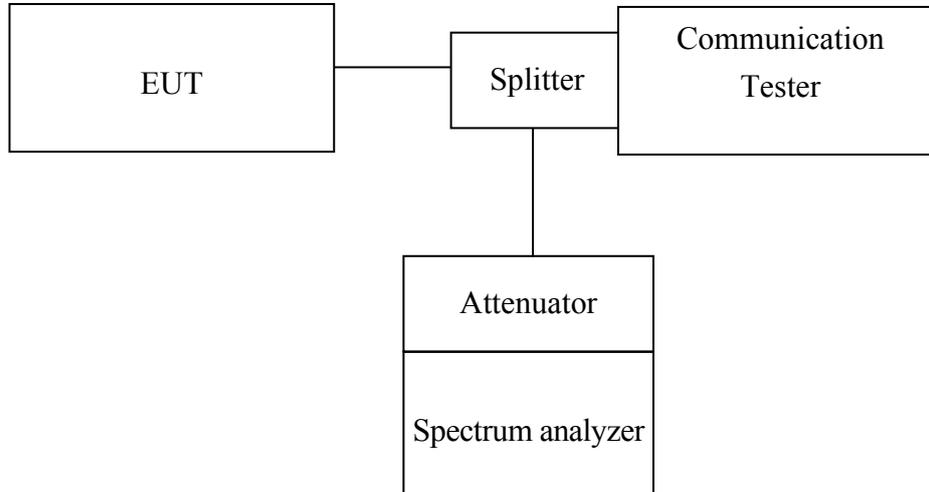
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9.2. Test SET-UP:

Out of band emission



Band Edge



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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= 10 th harmonic. Limit = -13dBm.

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

h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. Limit, -13dBm

(1) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. 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
- 4、 Via Software, combine 6 spans of frequency range into one plot

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to next pages.

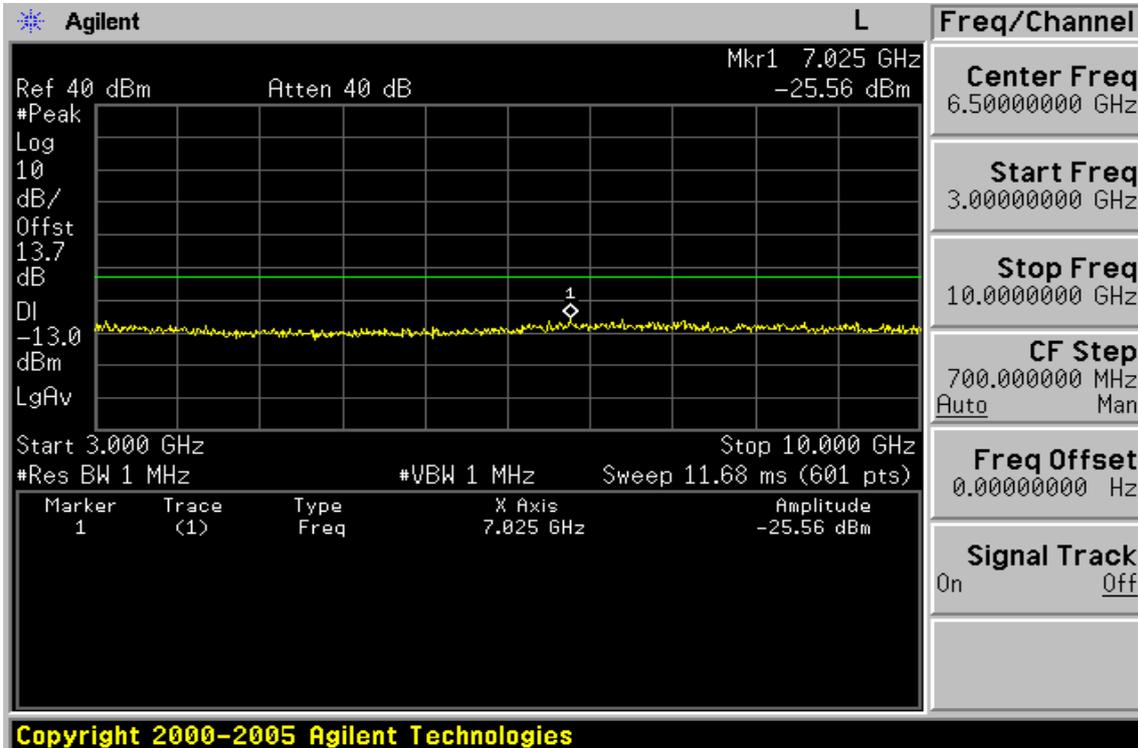
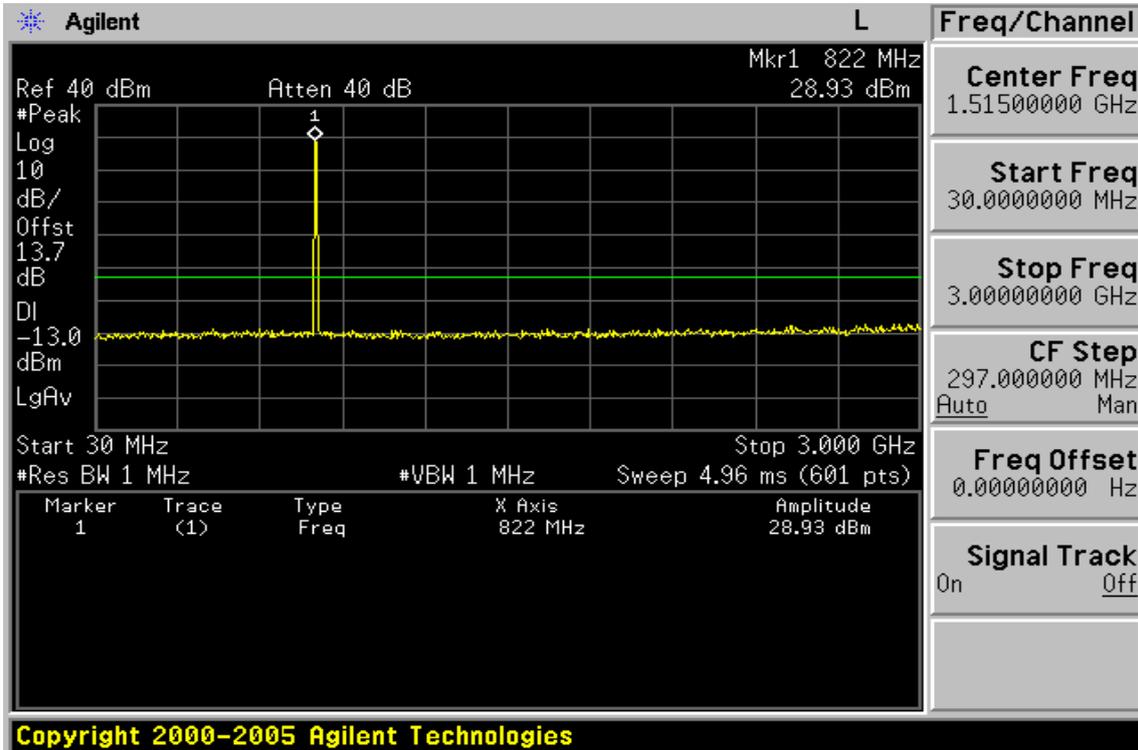
NOTE: the occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest



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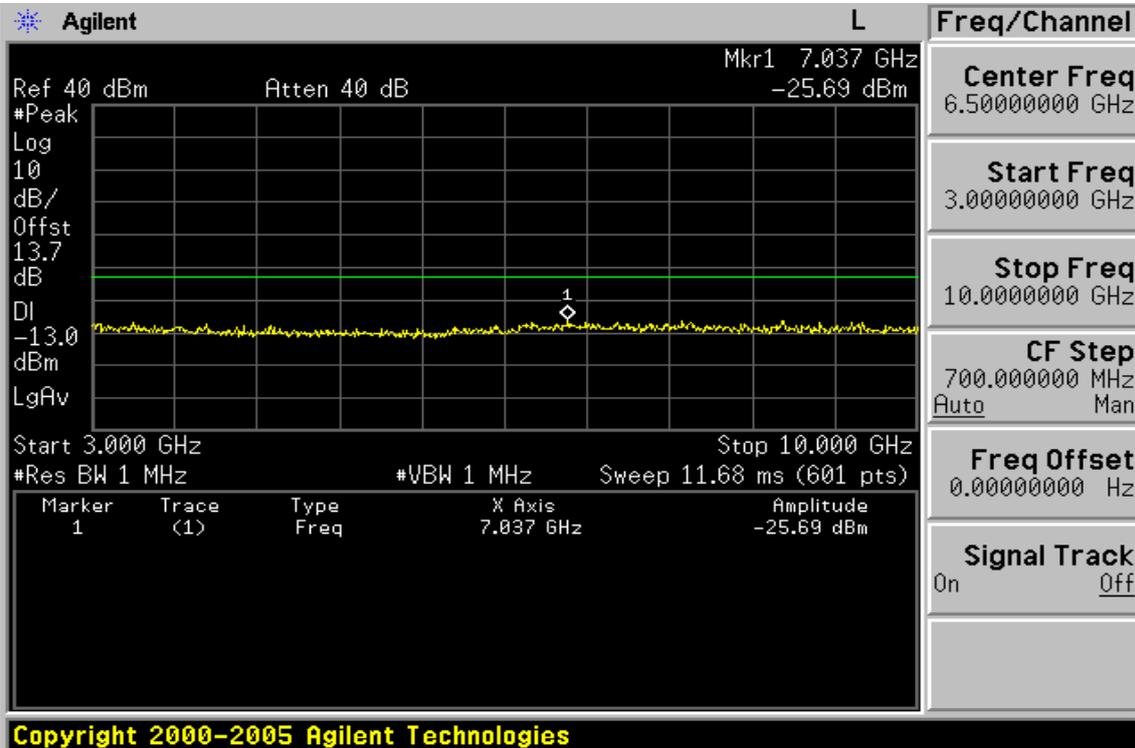
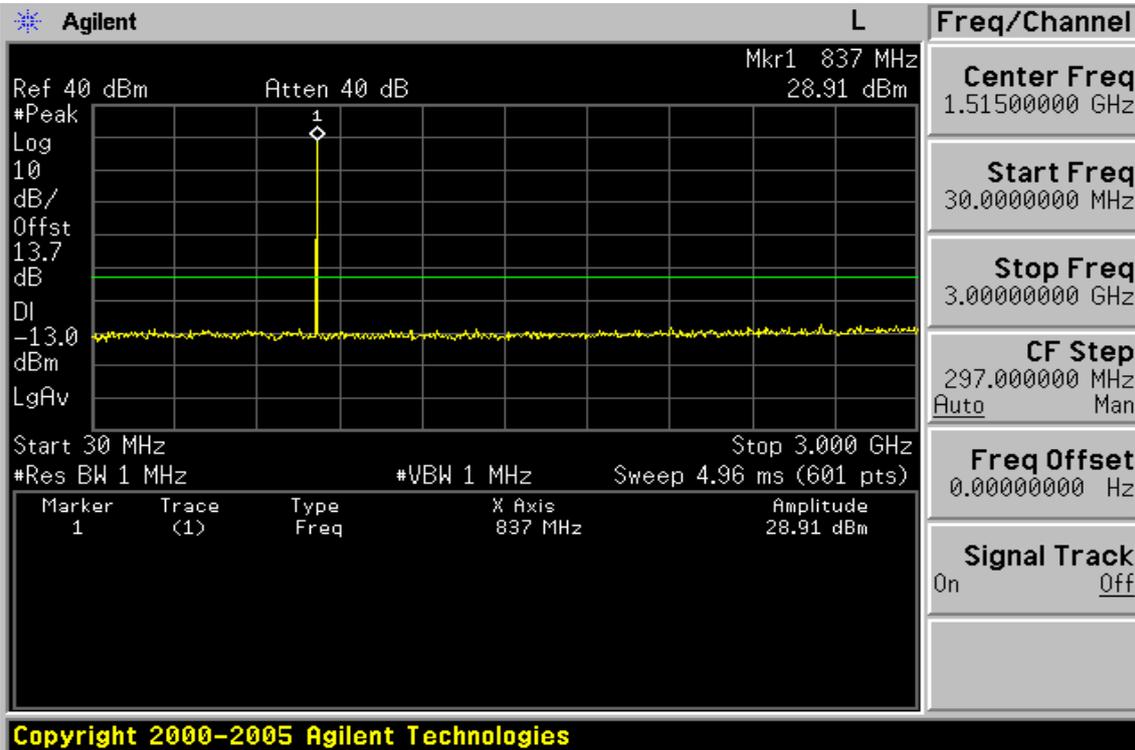
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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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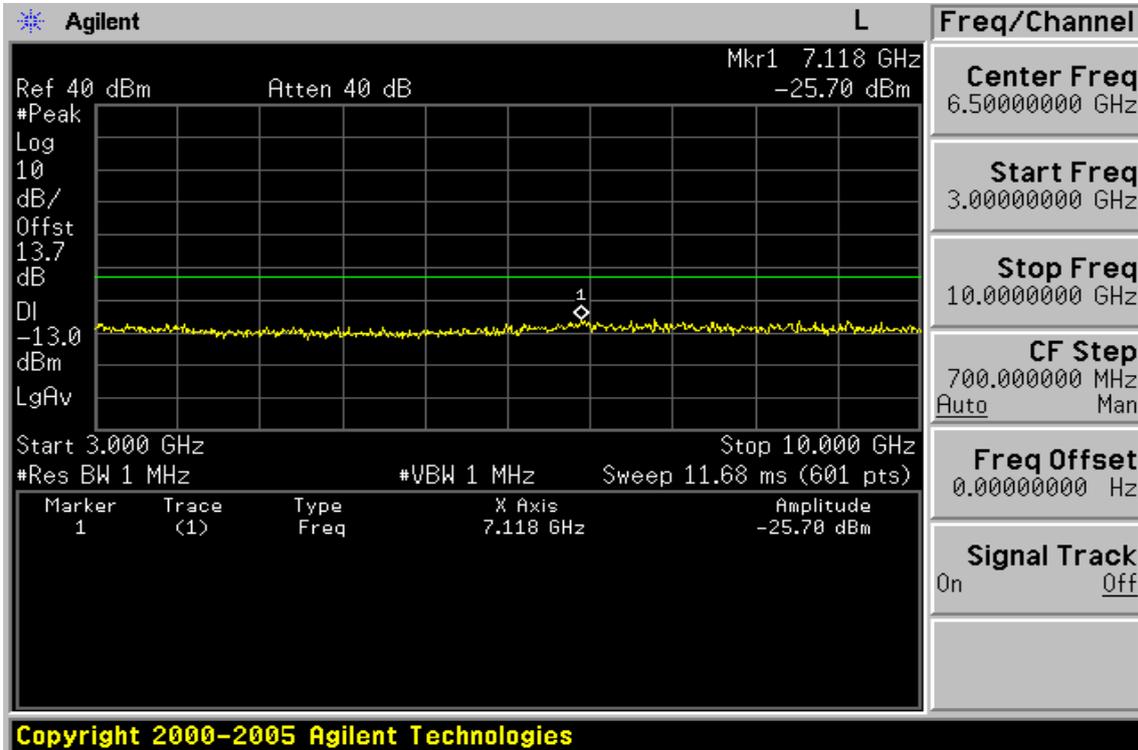
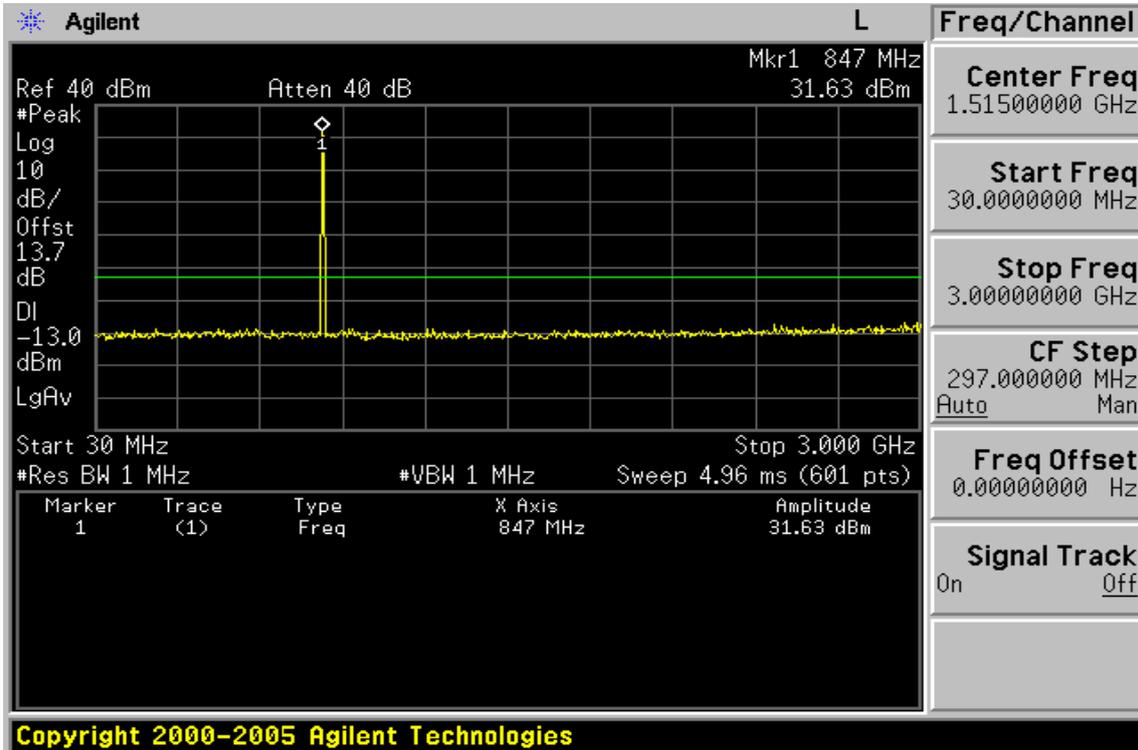
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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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

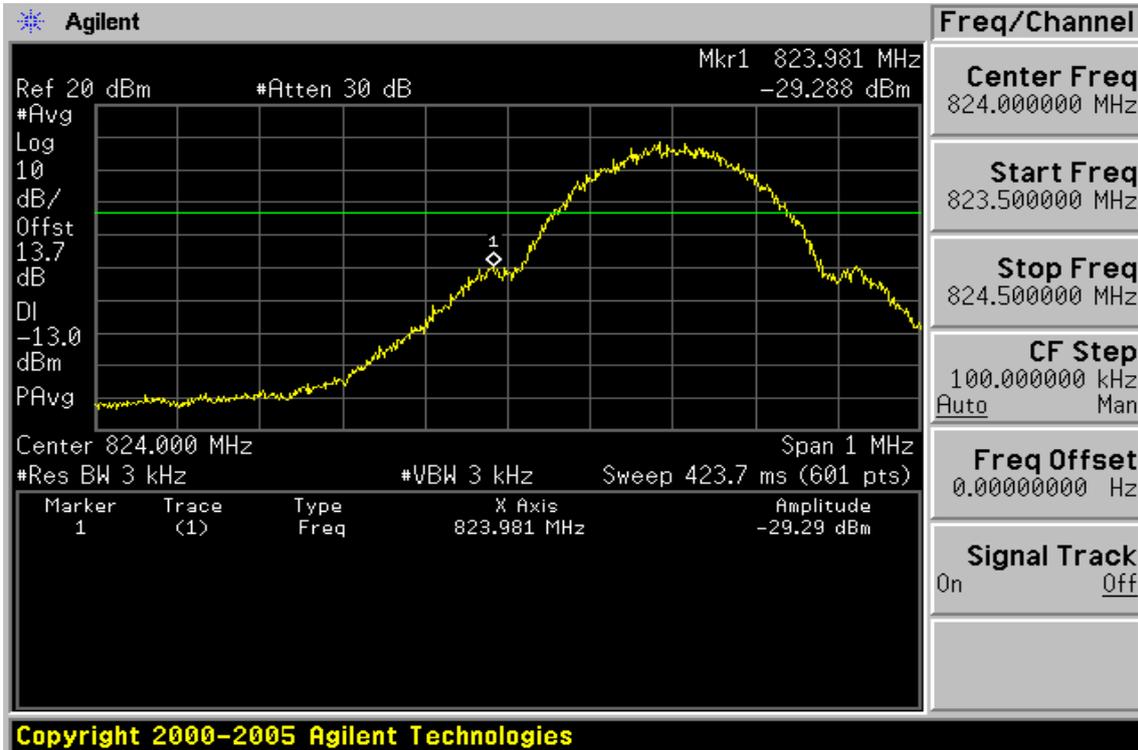
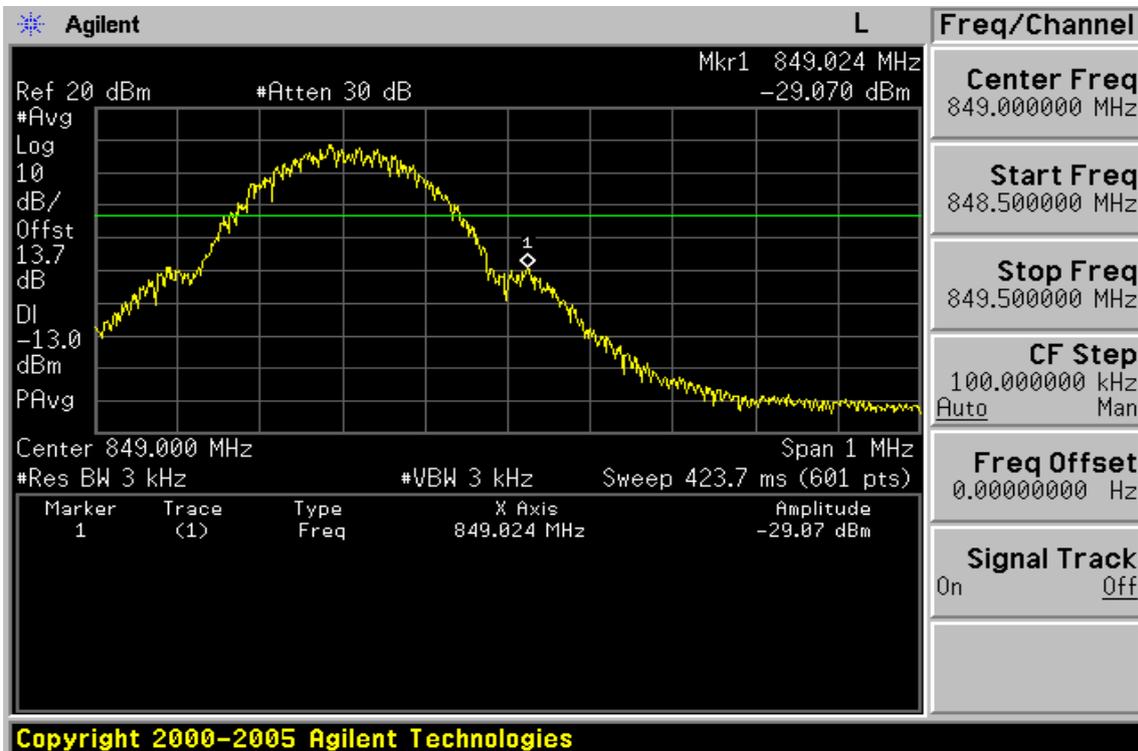


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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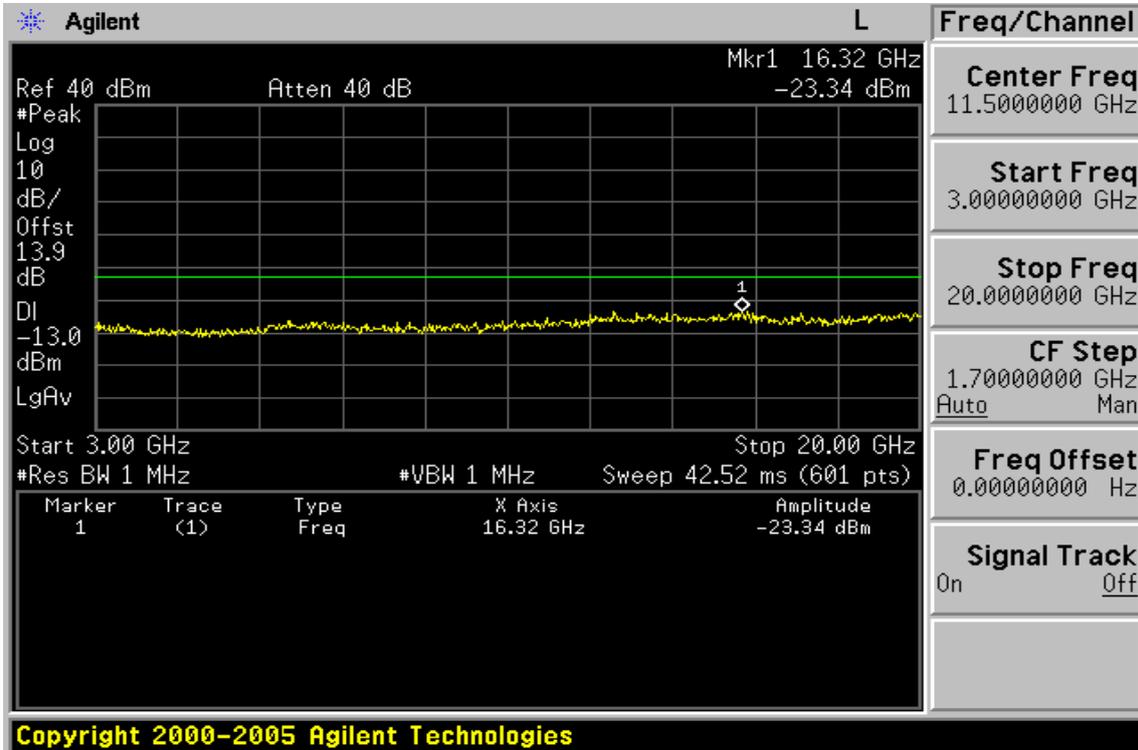
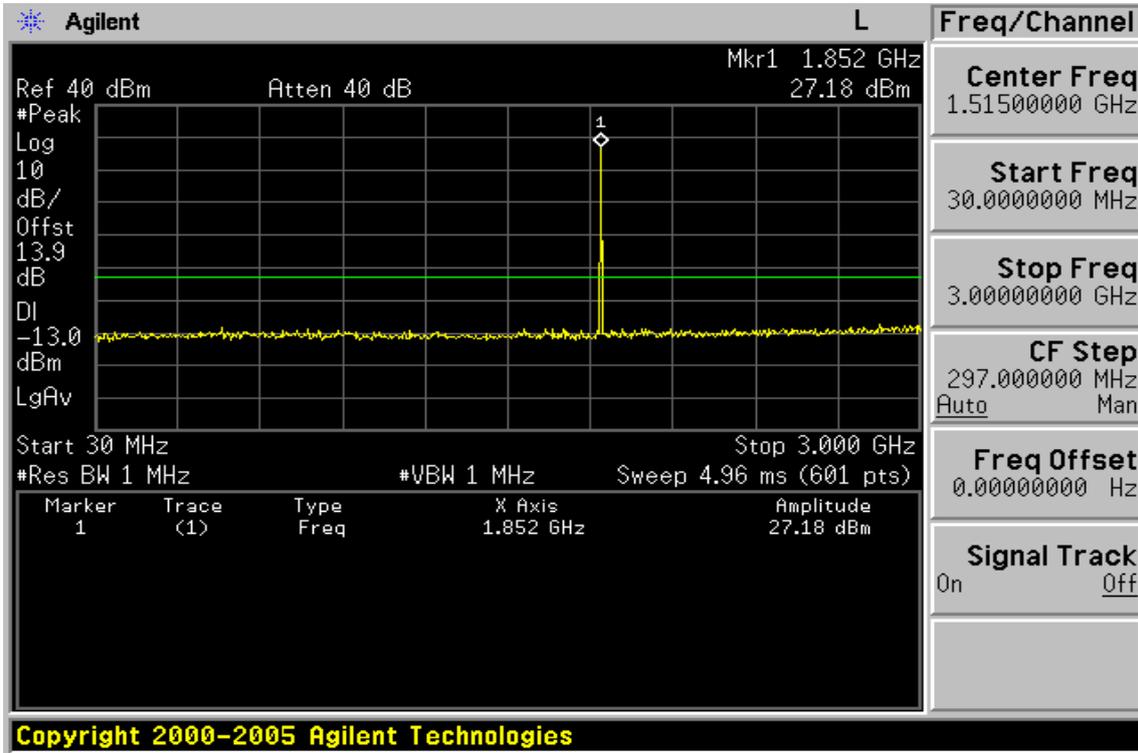
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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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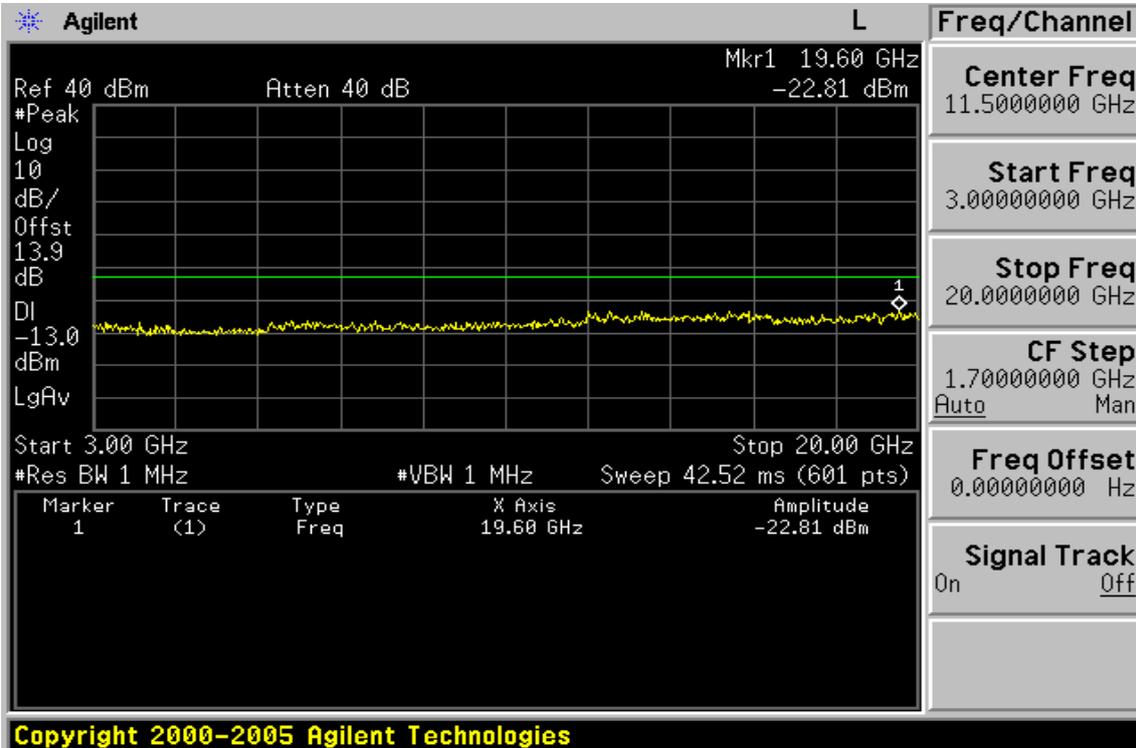
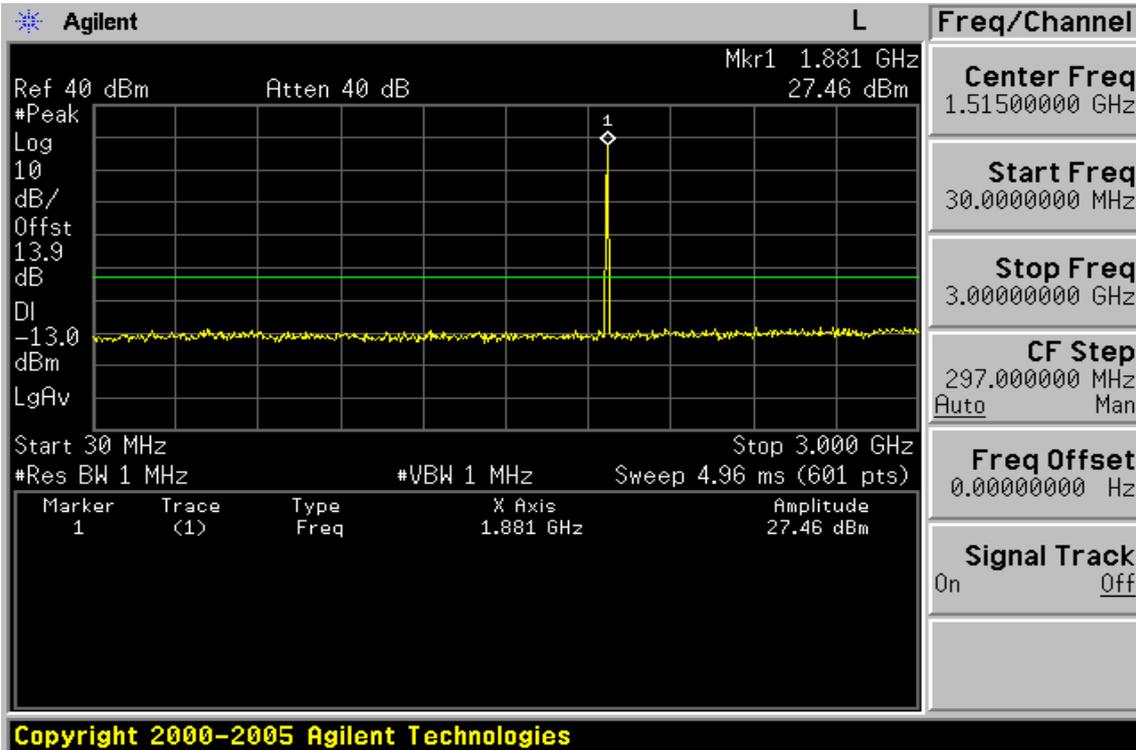
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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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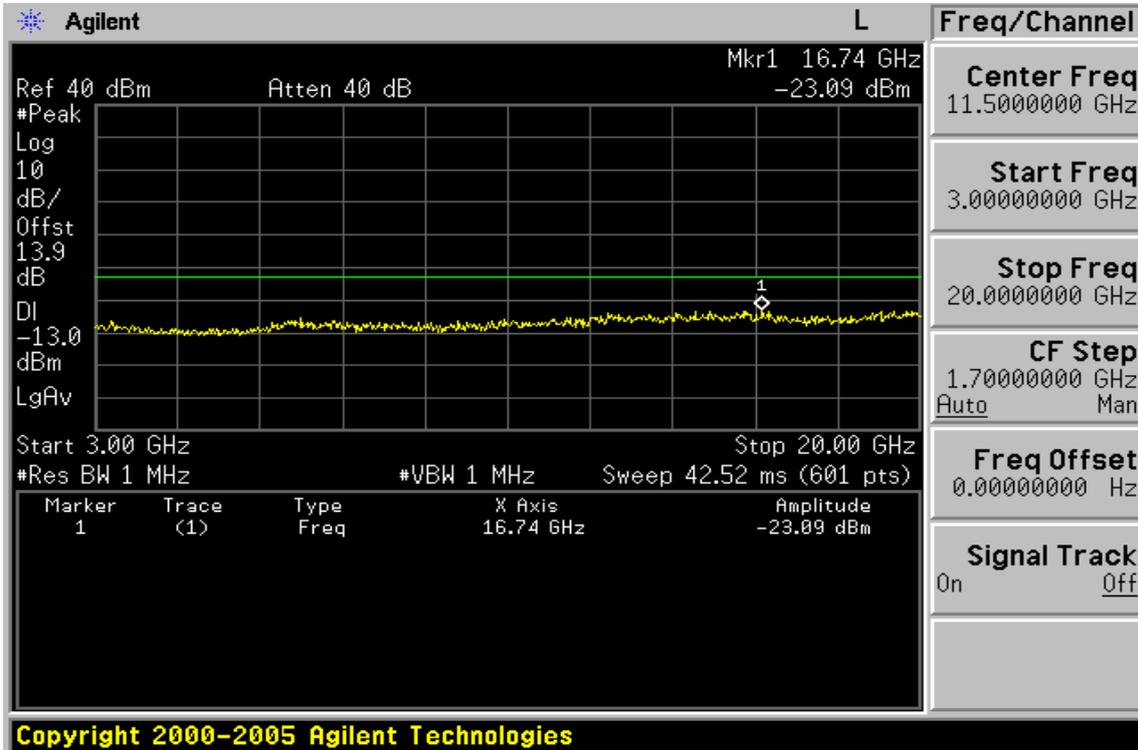
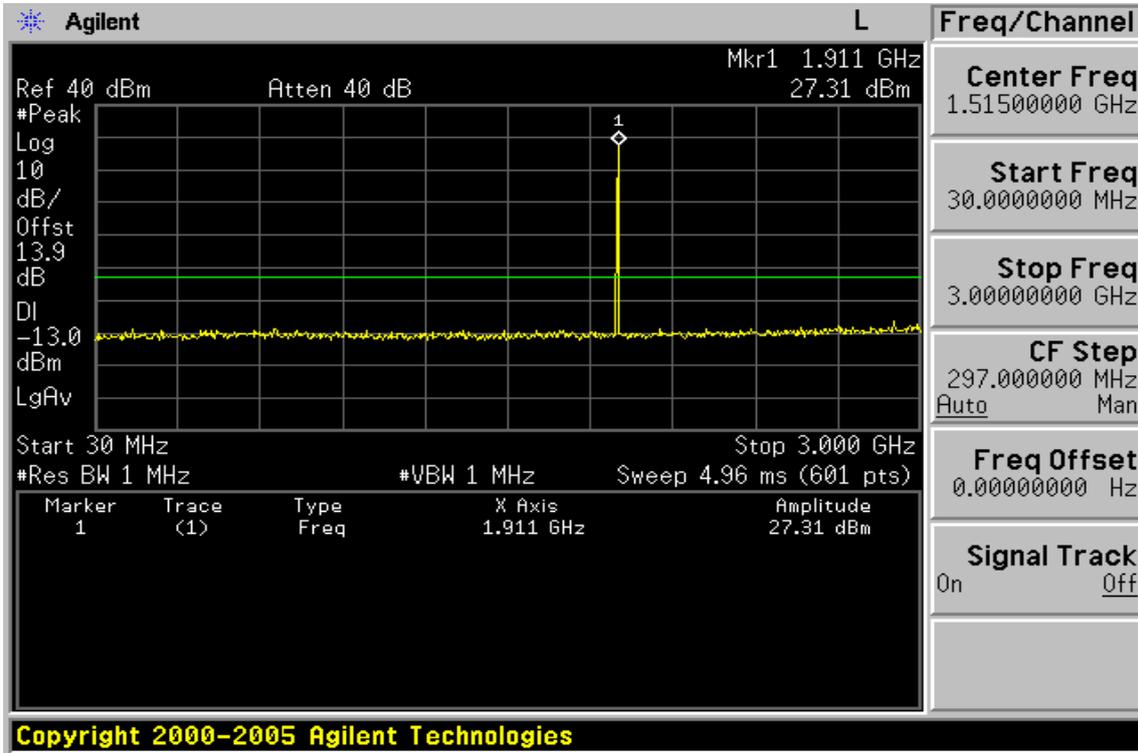
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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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

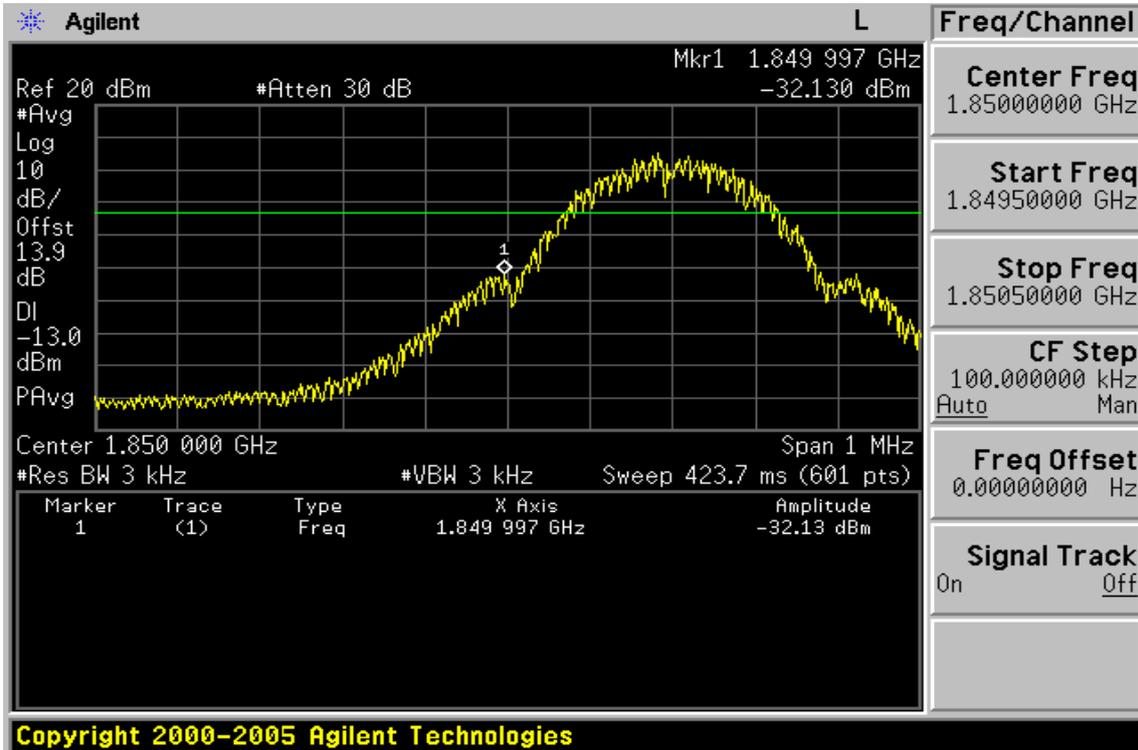
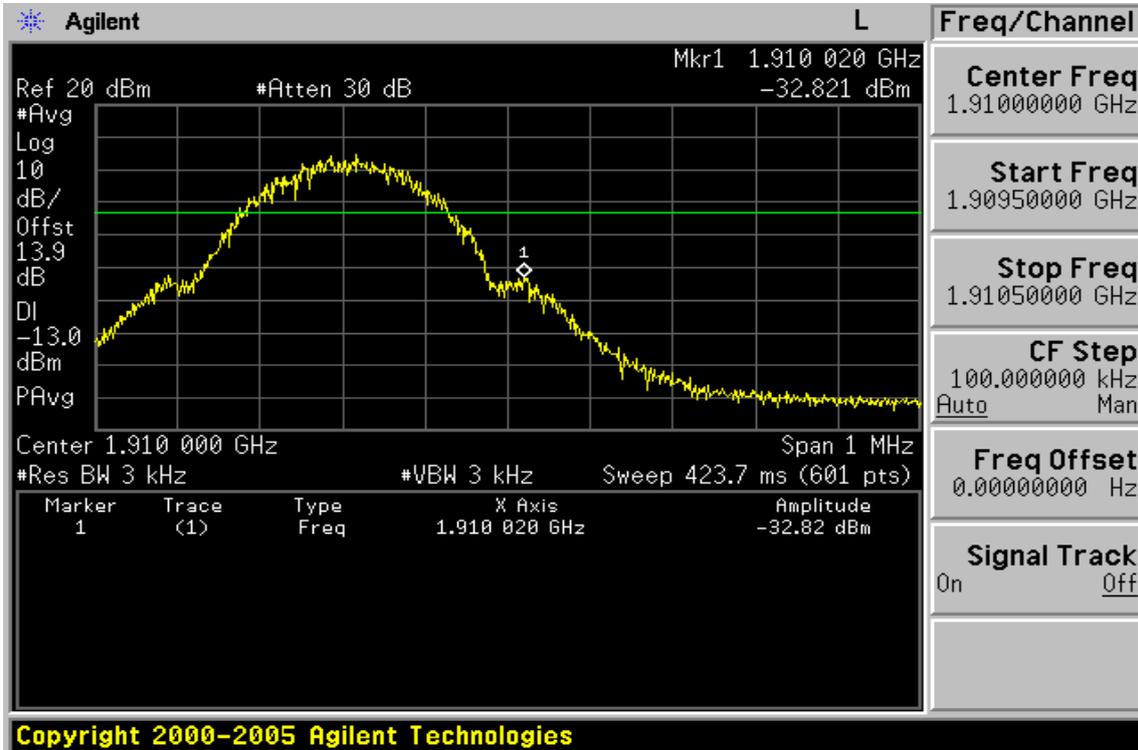


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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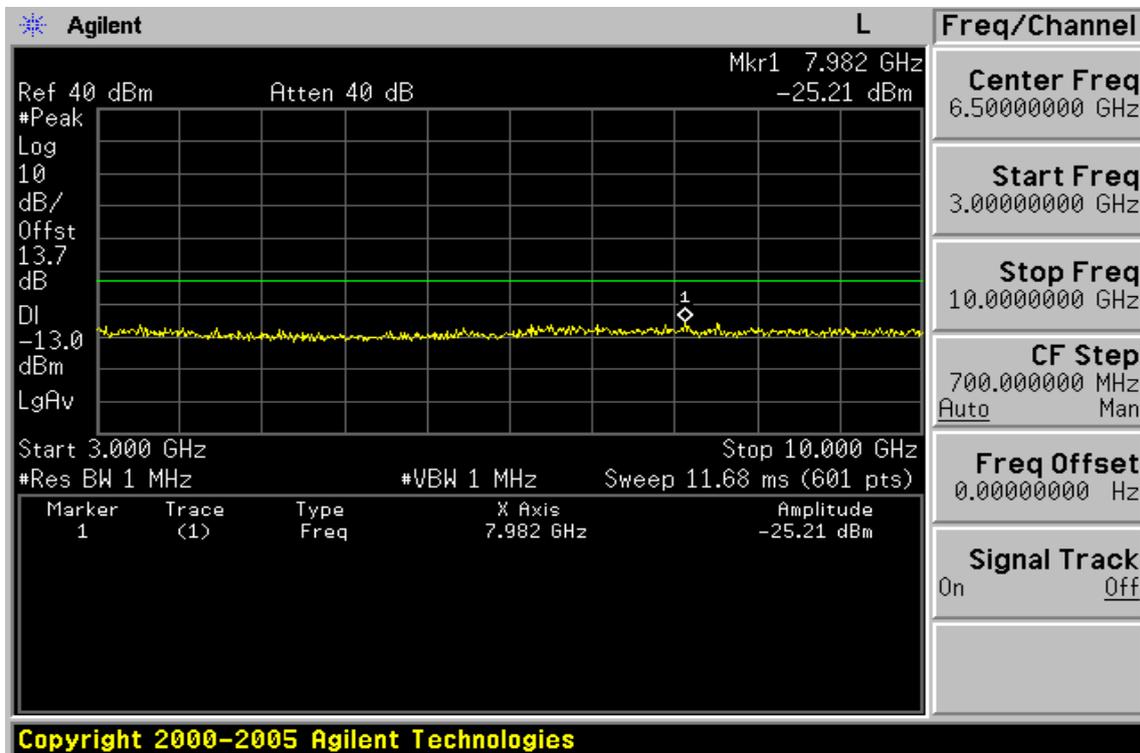
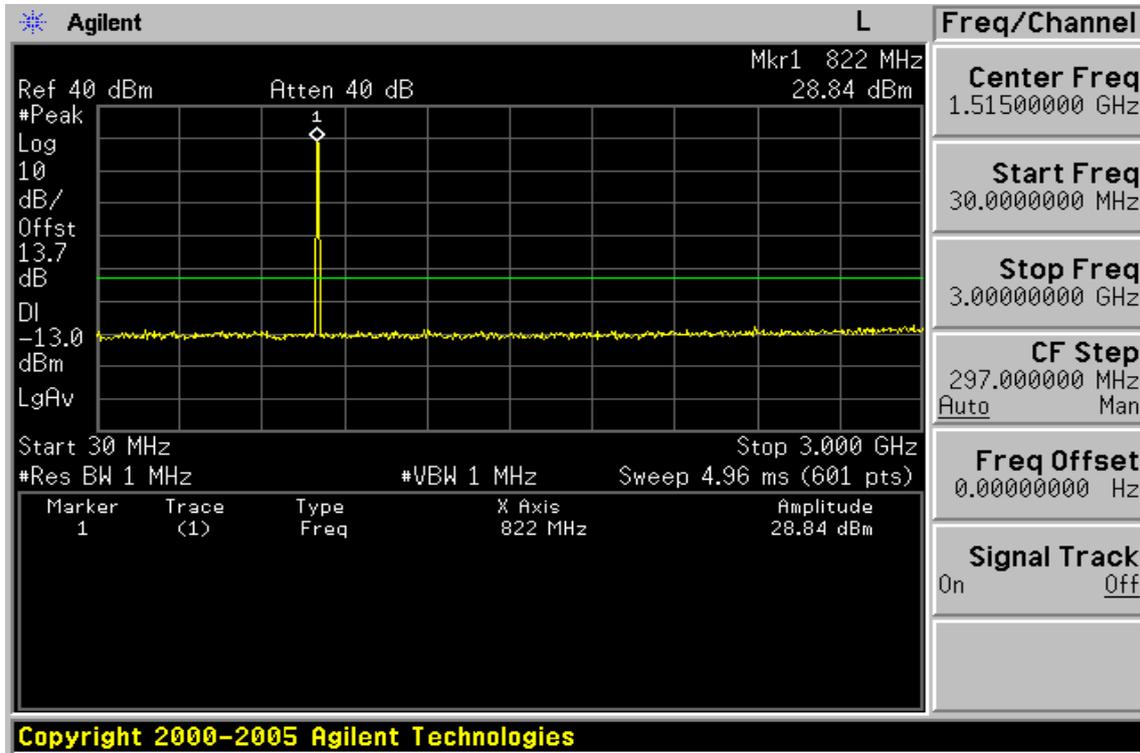
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Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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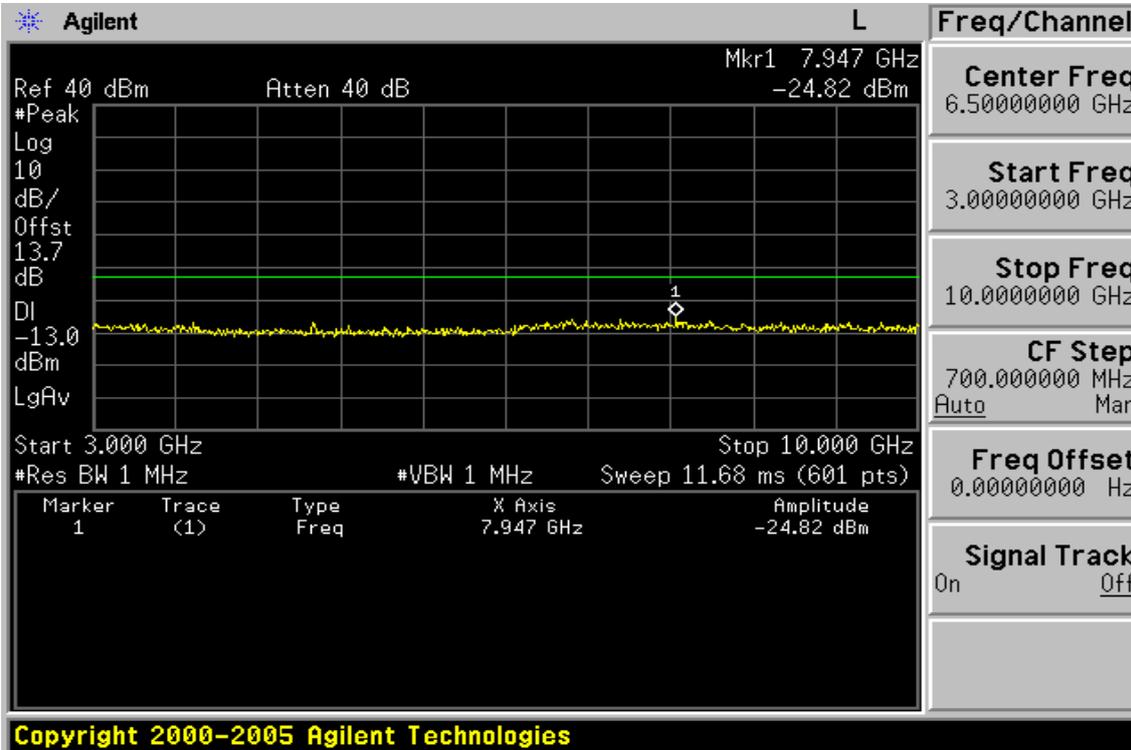
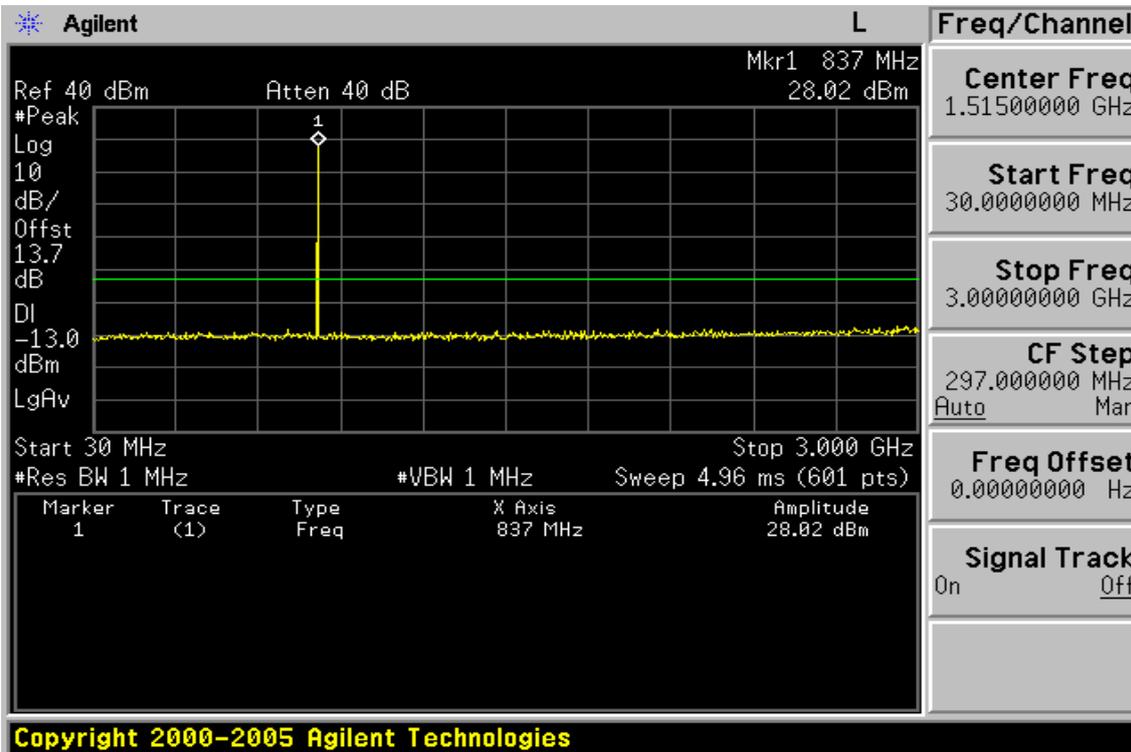
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Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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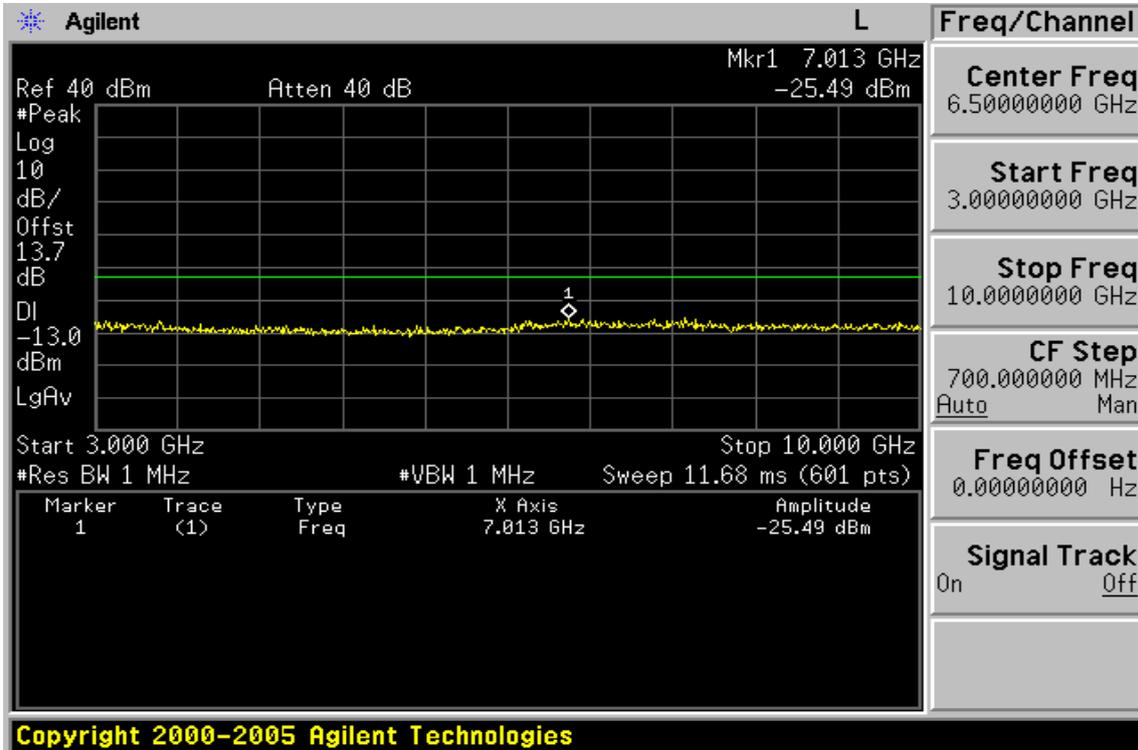
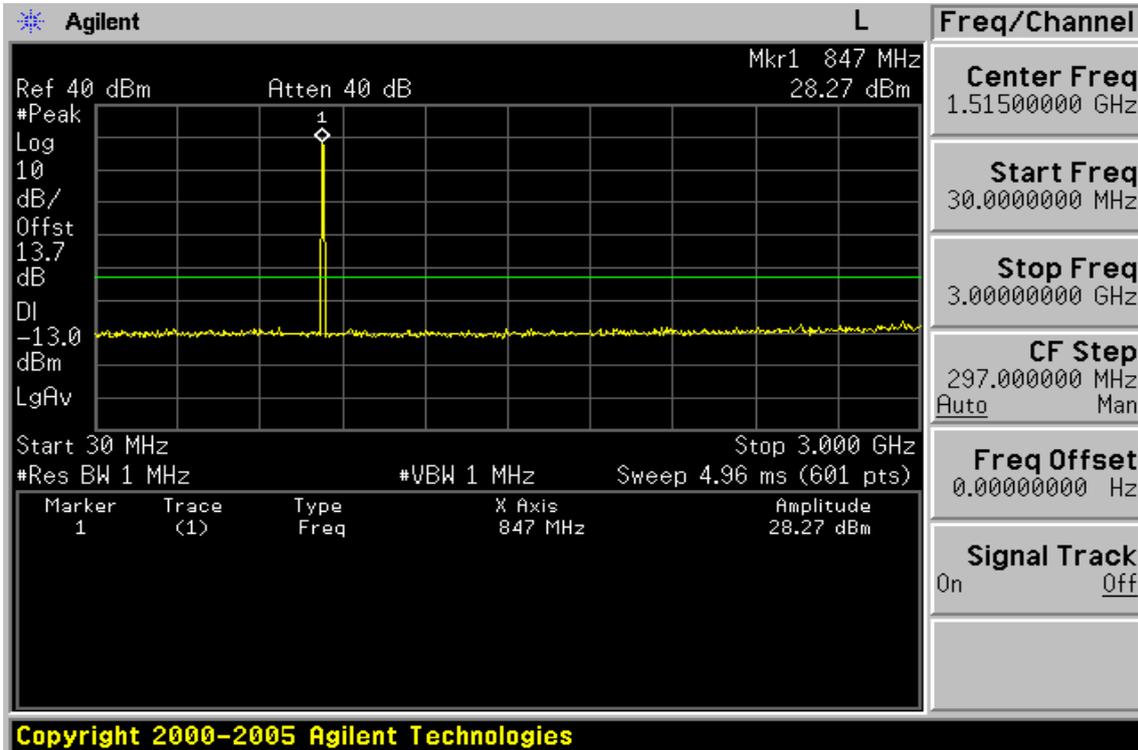
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Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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Figure 9-24: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

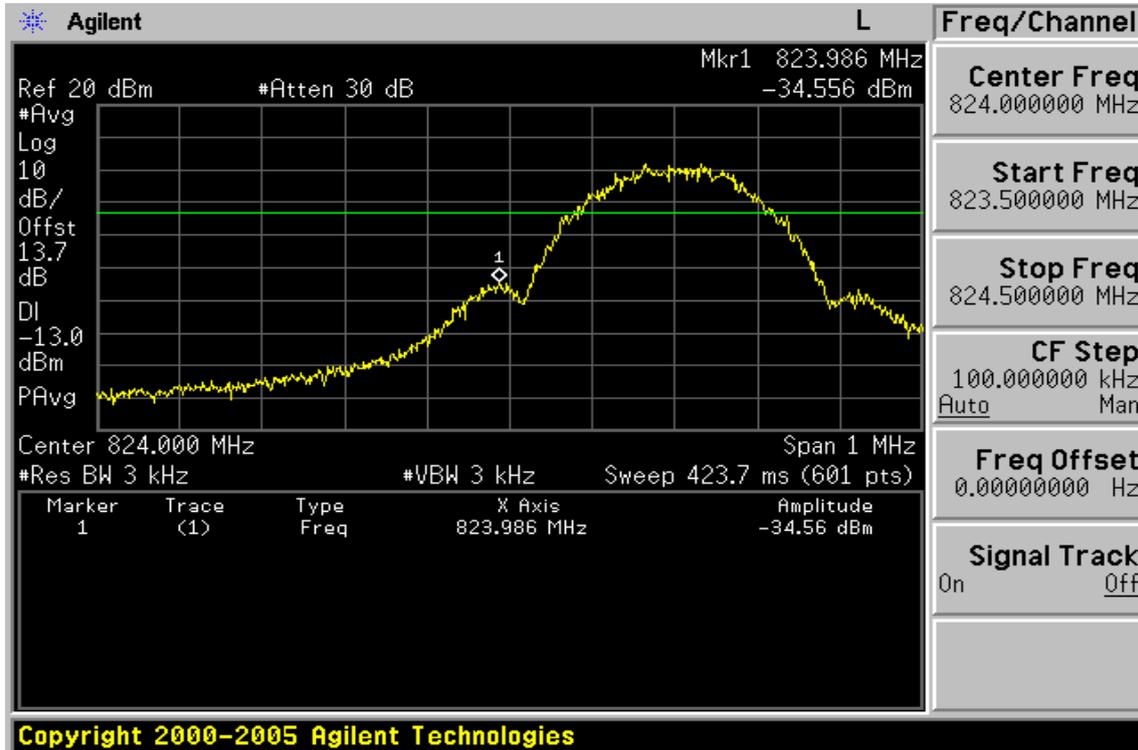
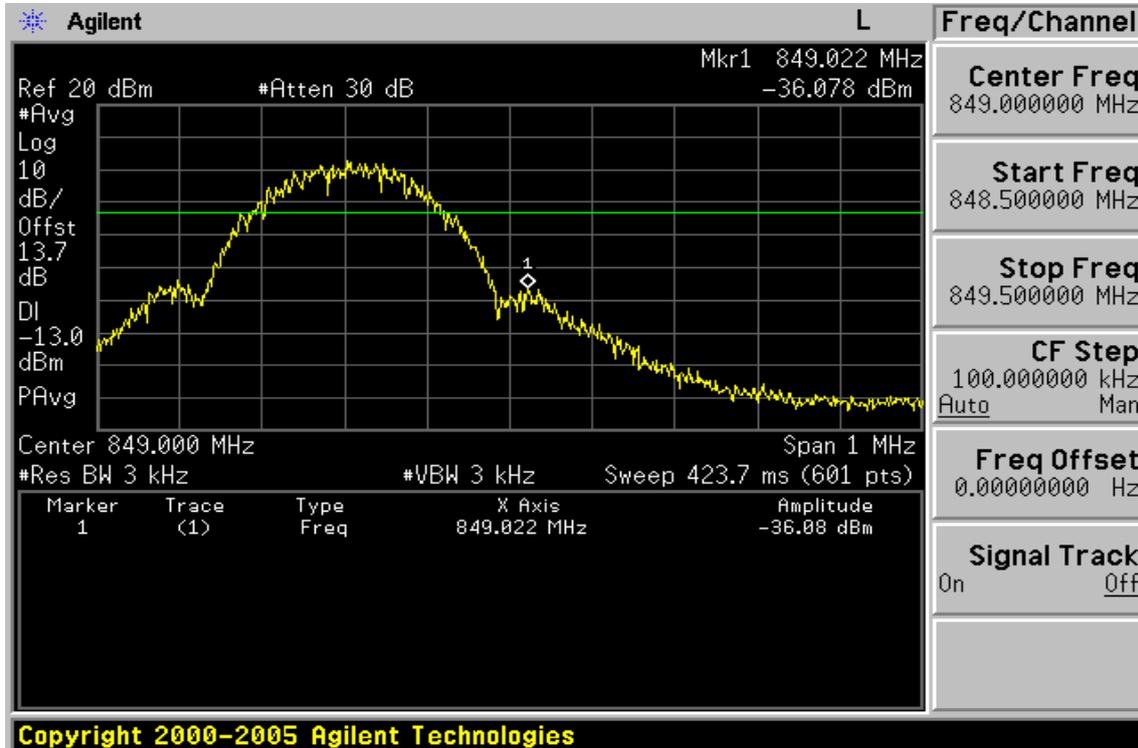


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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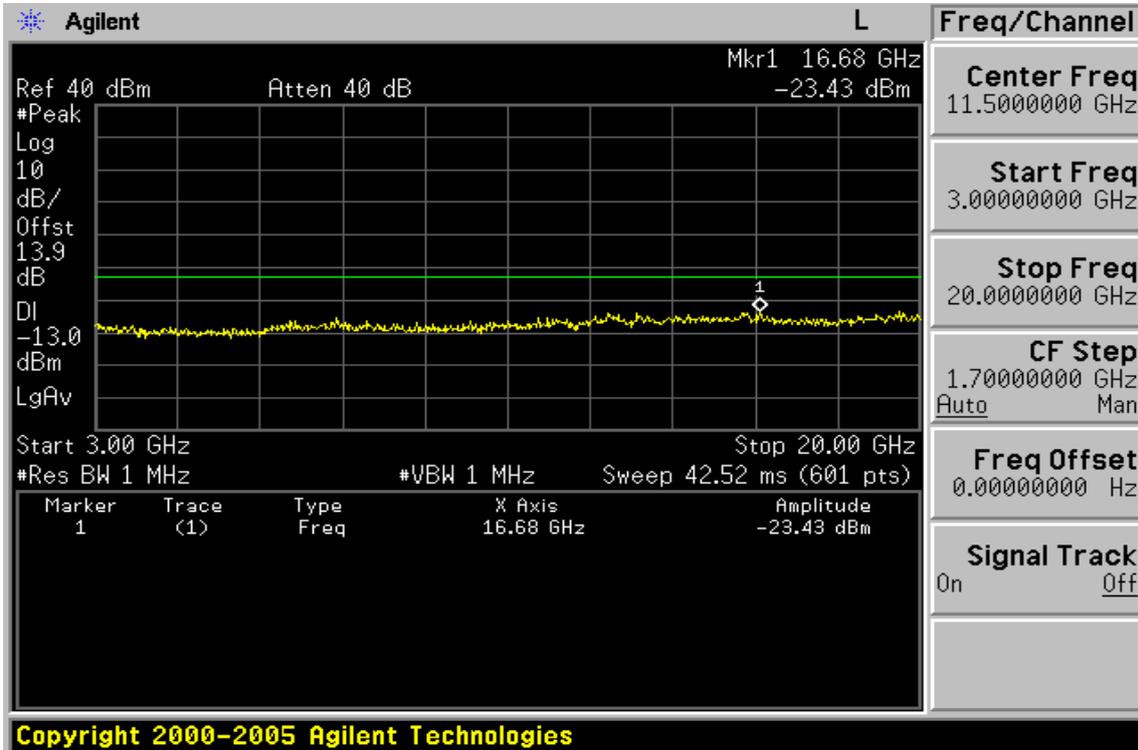
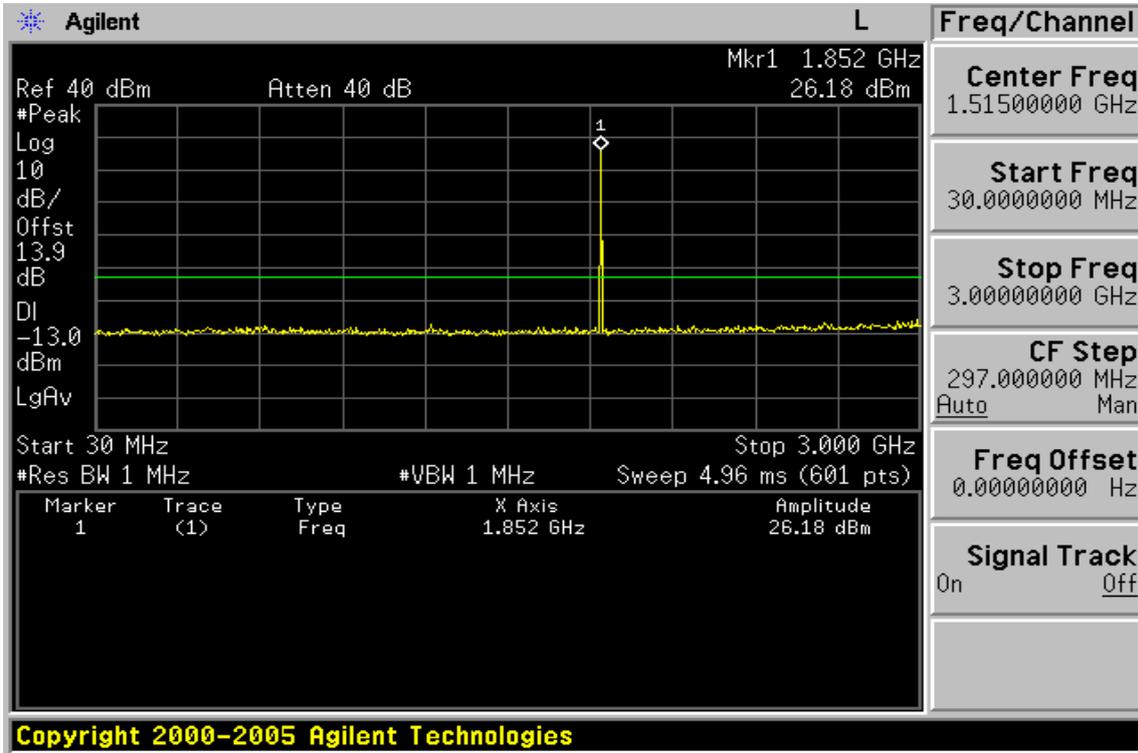
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Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest

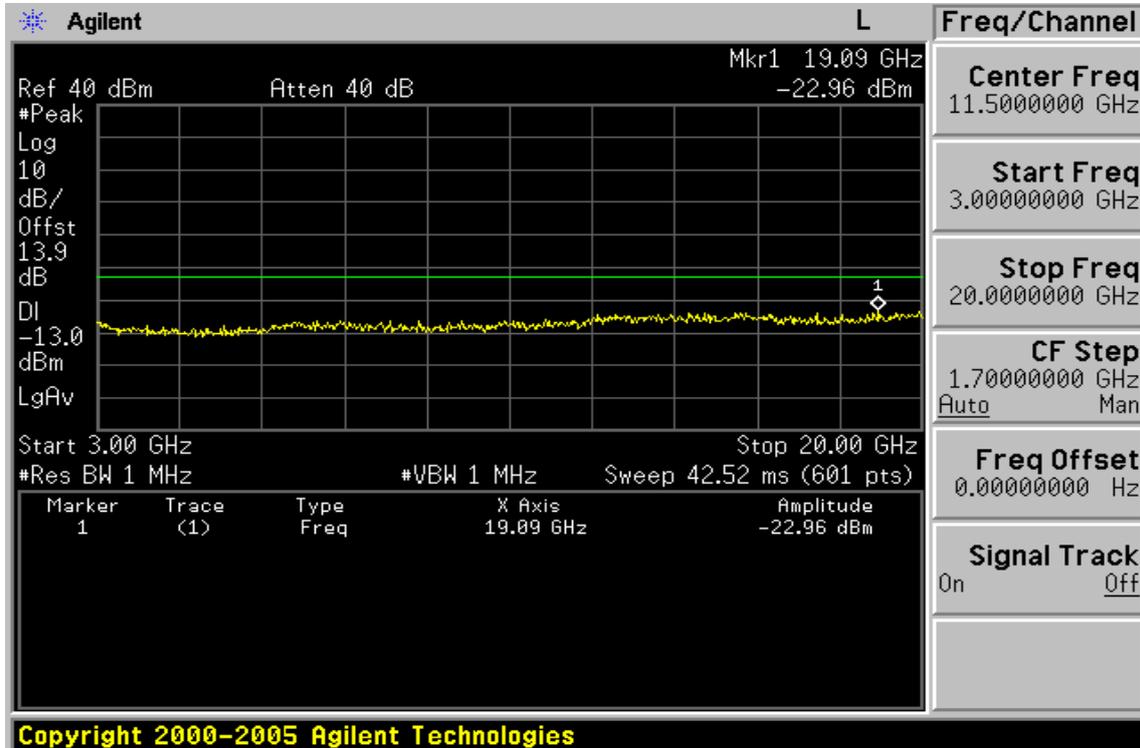
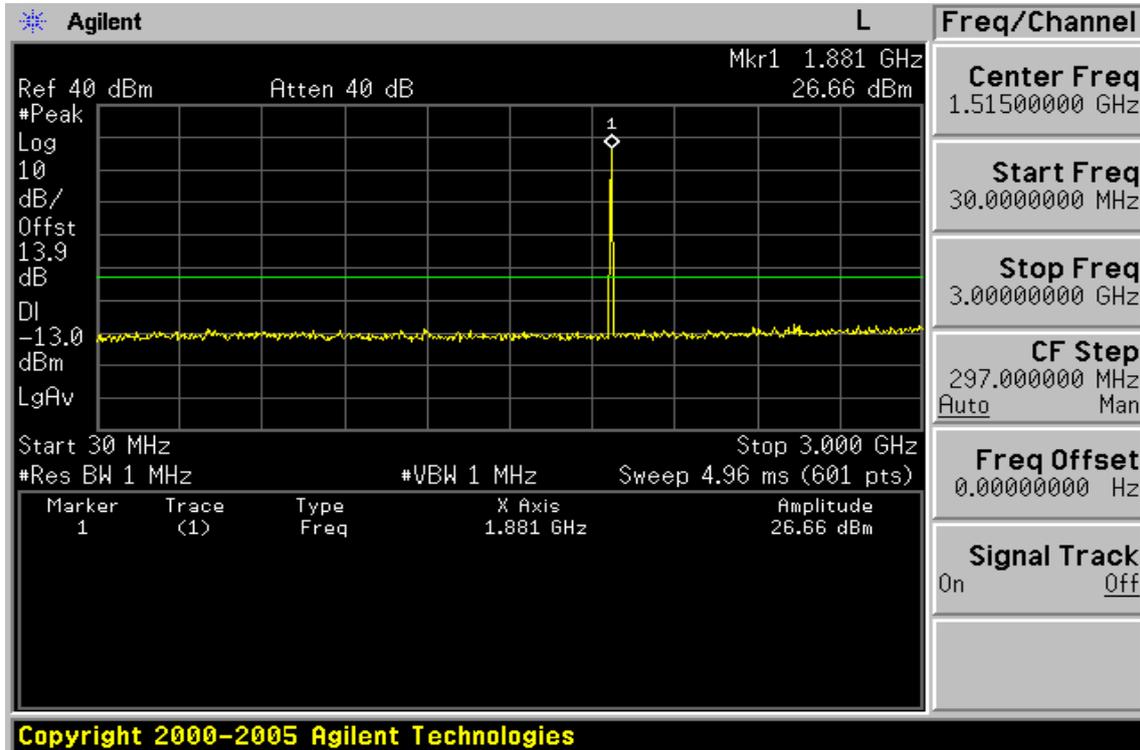


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Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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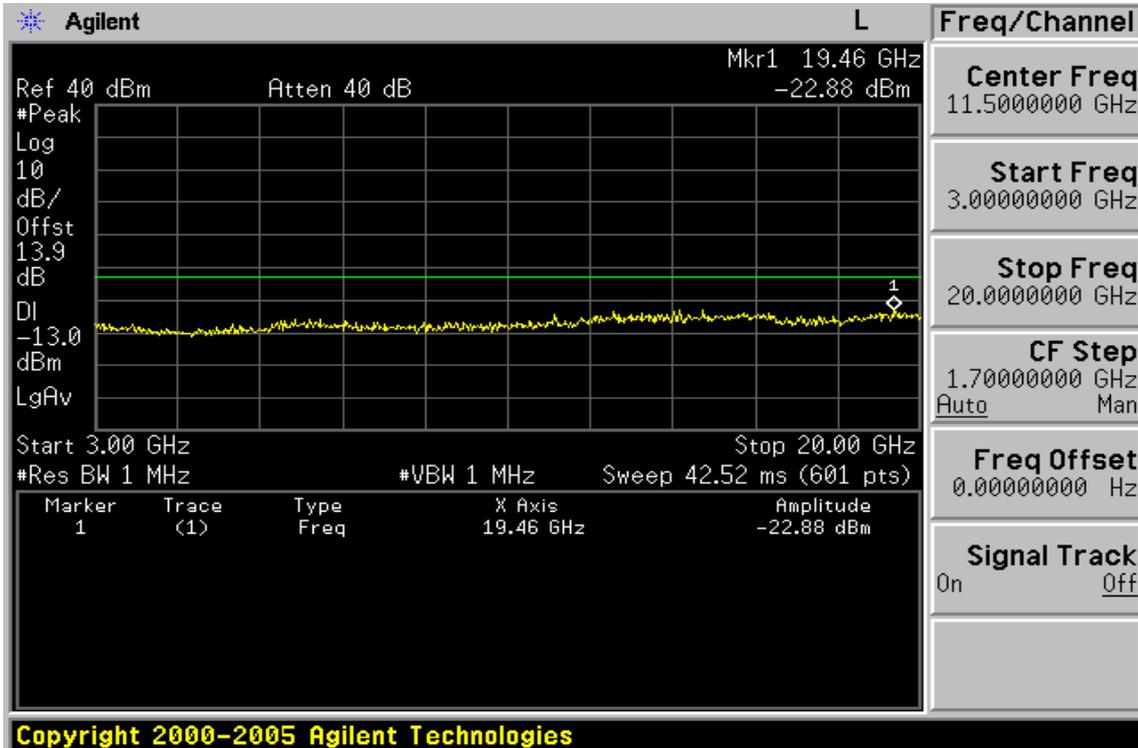
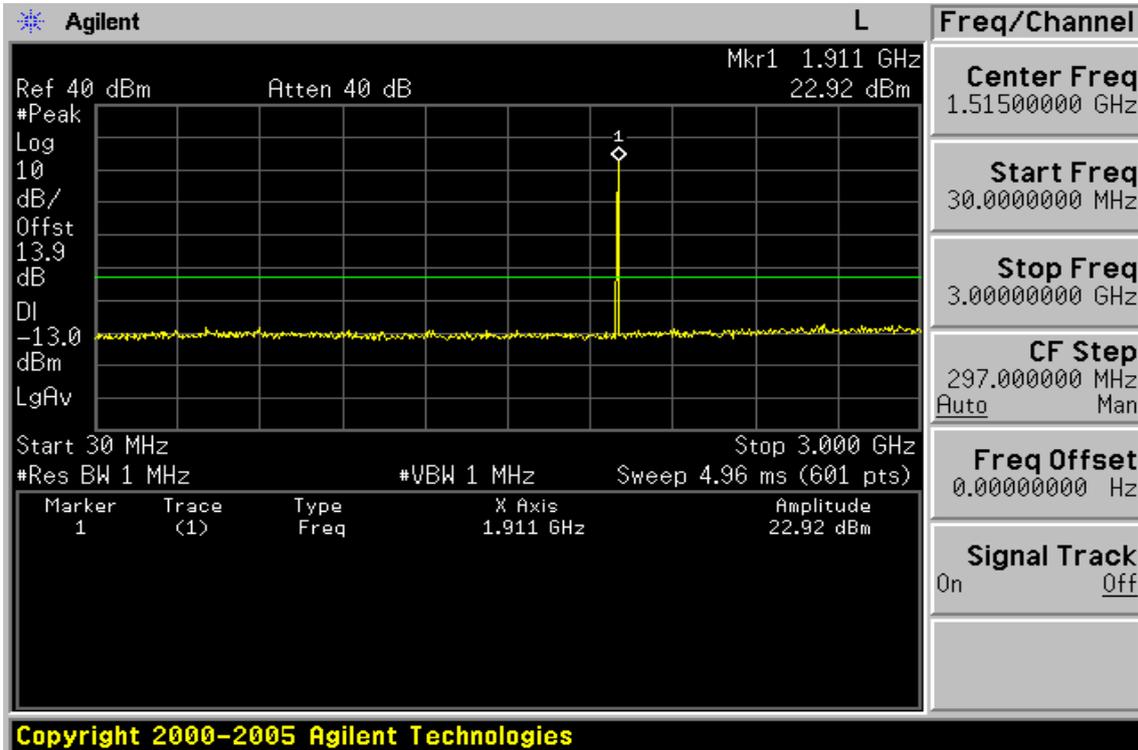
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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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Figure 9-29: Band edge emission at antenna terminals – EDGE 1900 Channel Lowest

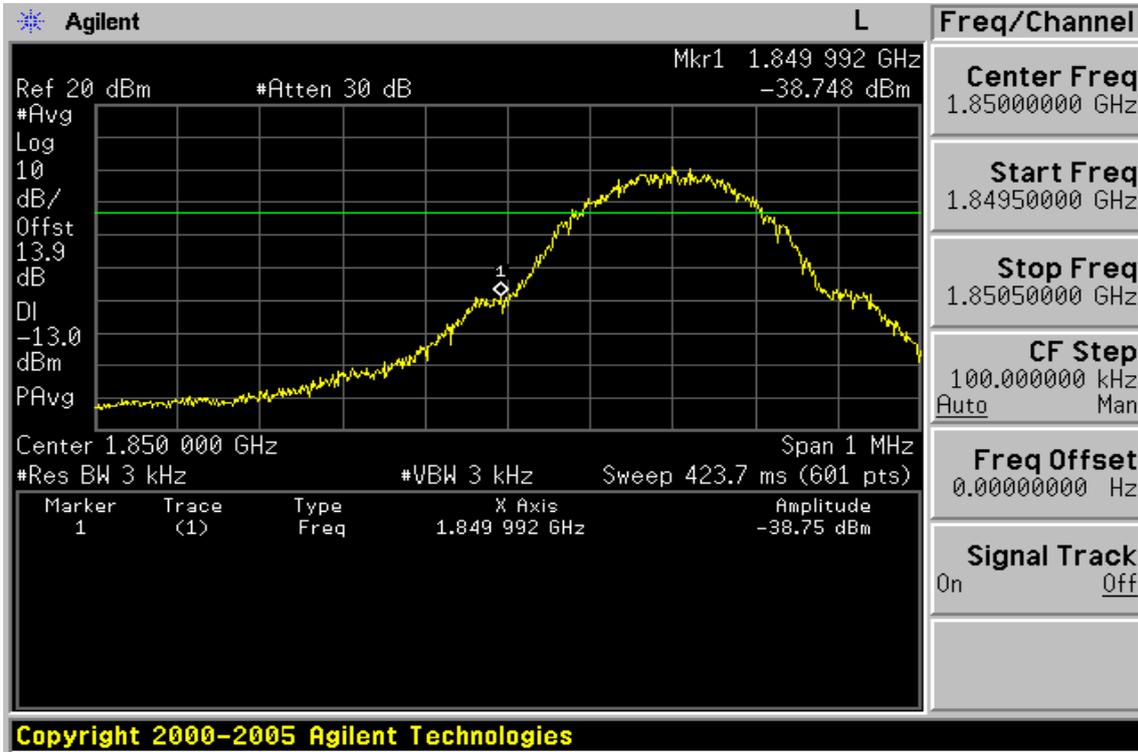
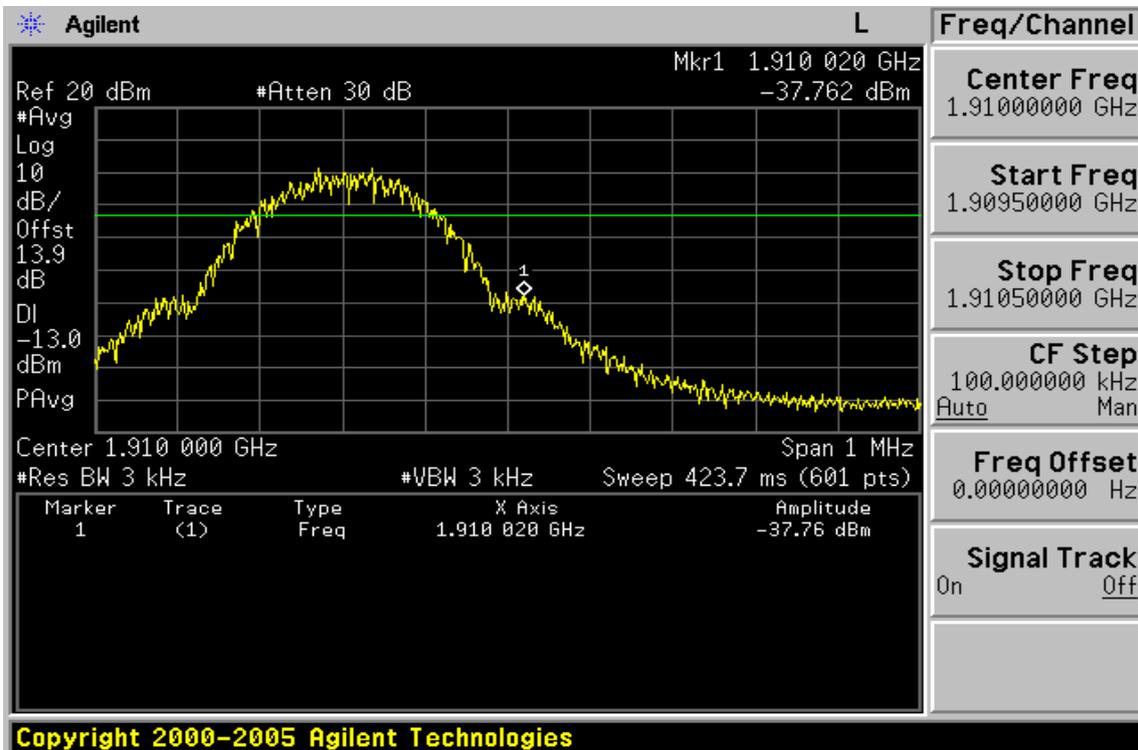


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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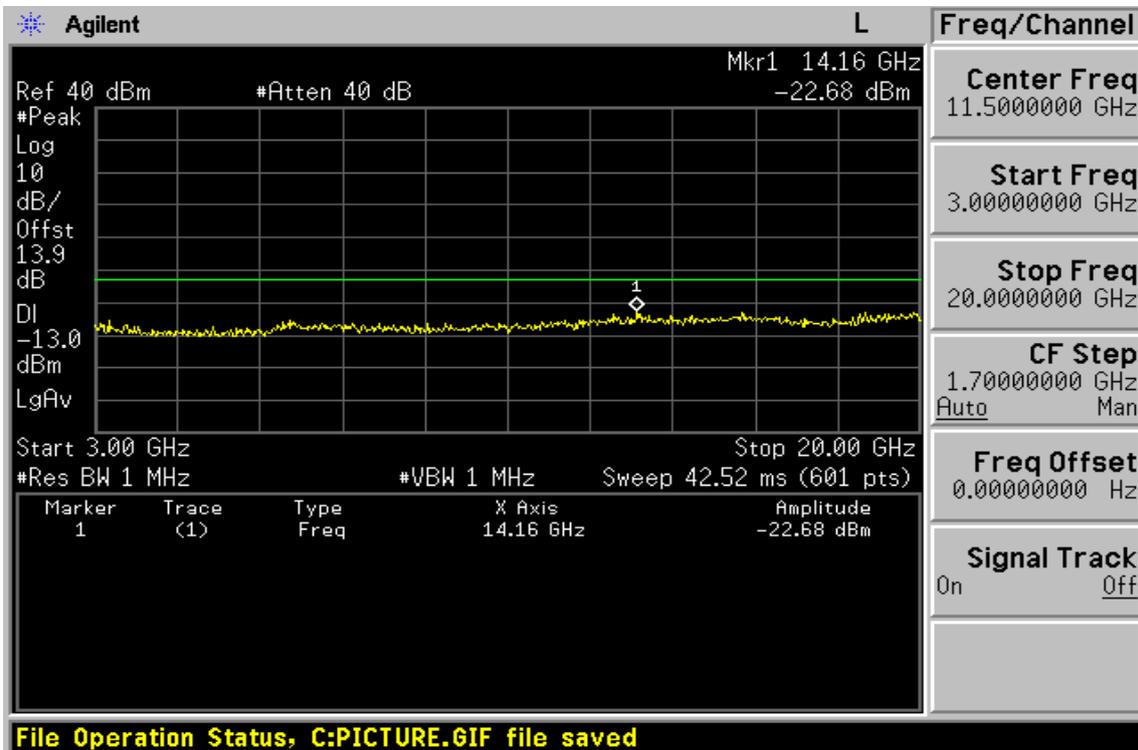
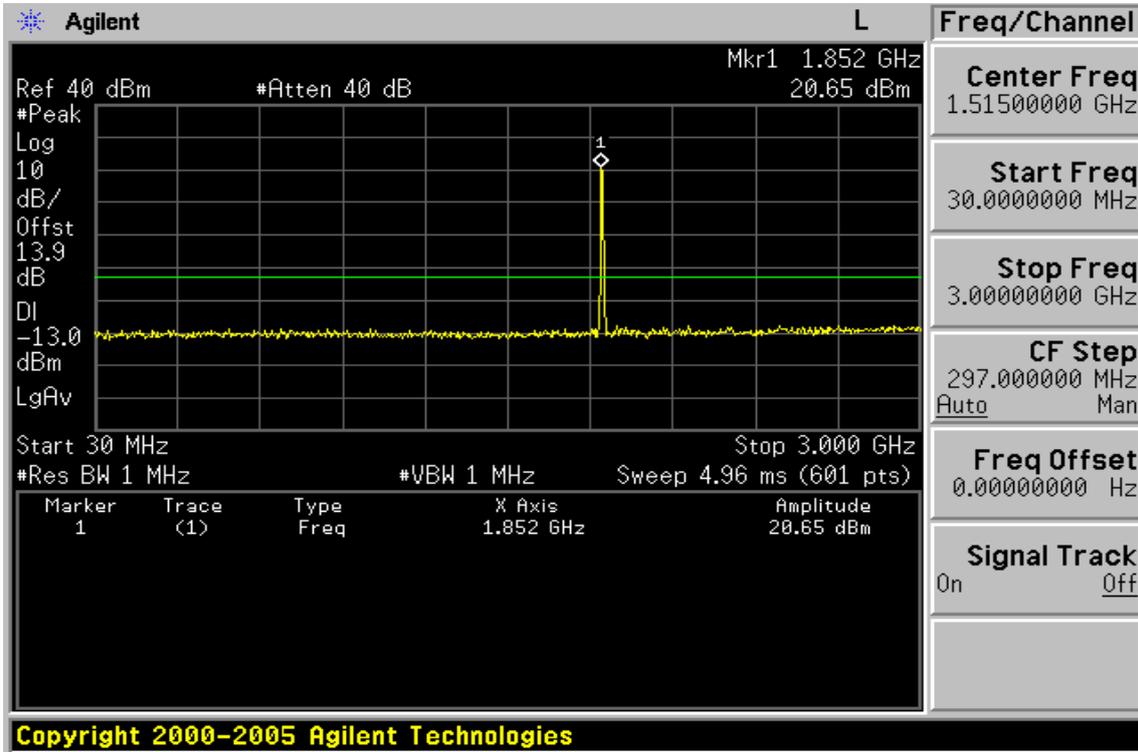
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Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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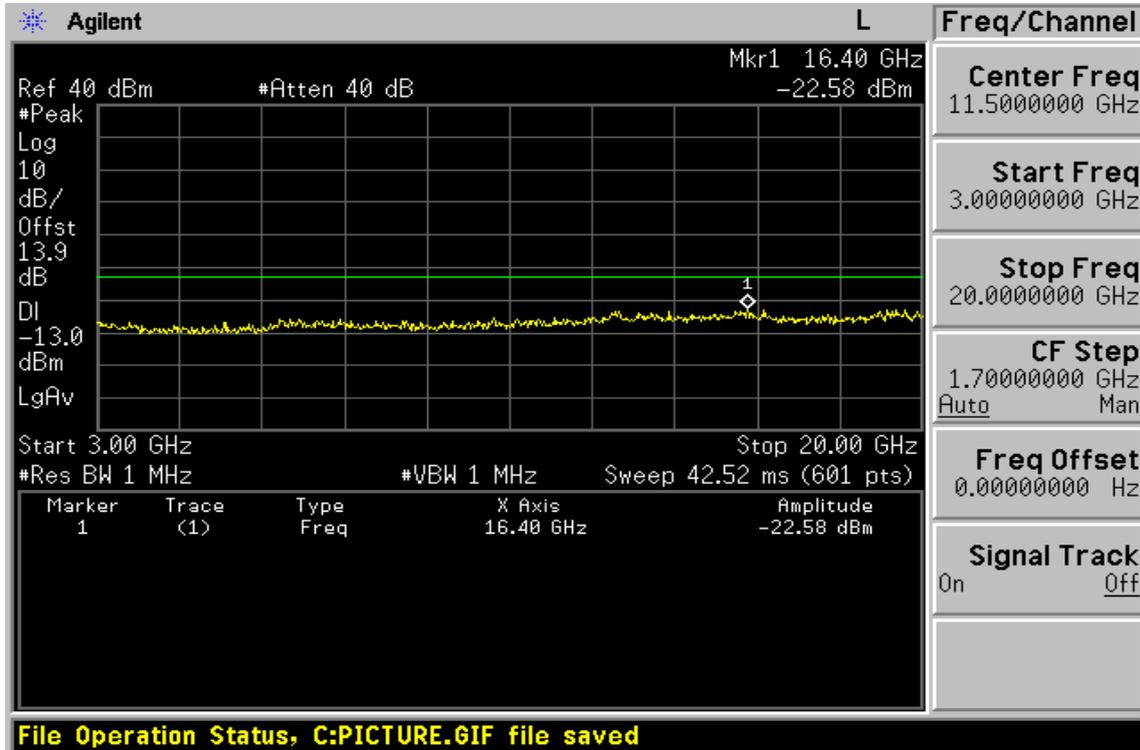
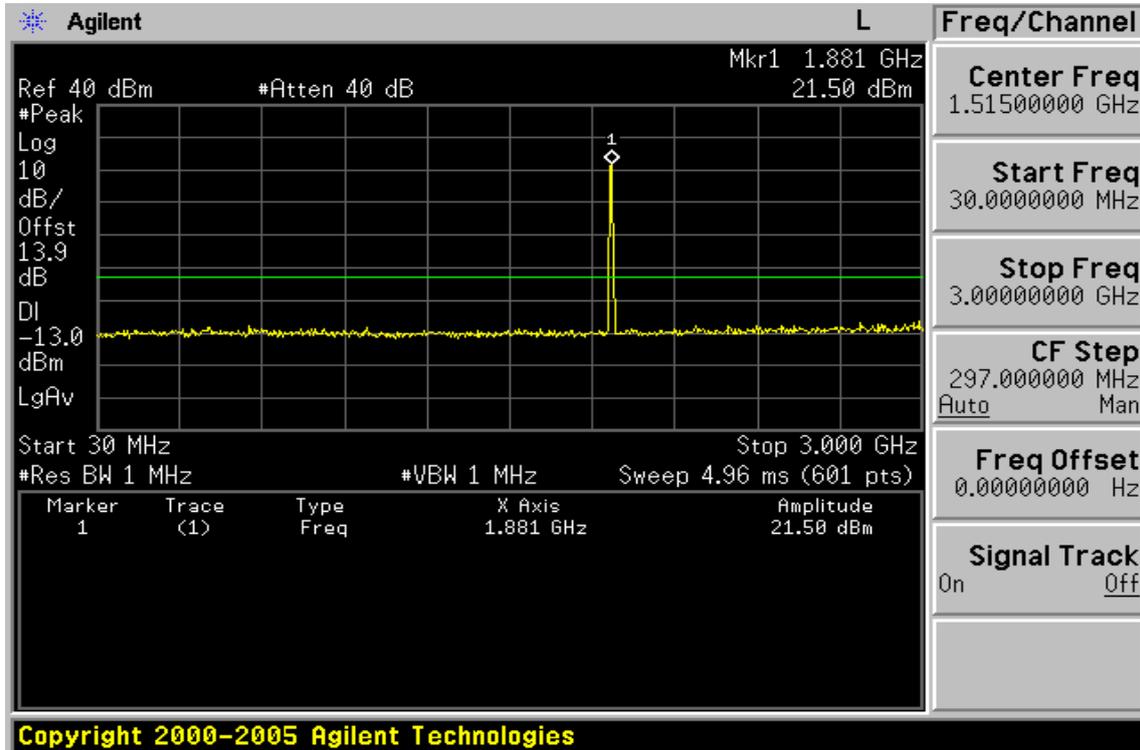
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Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid



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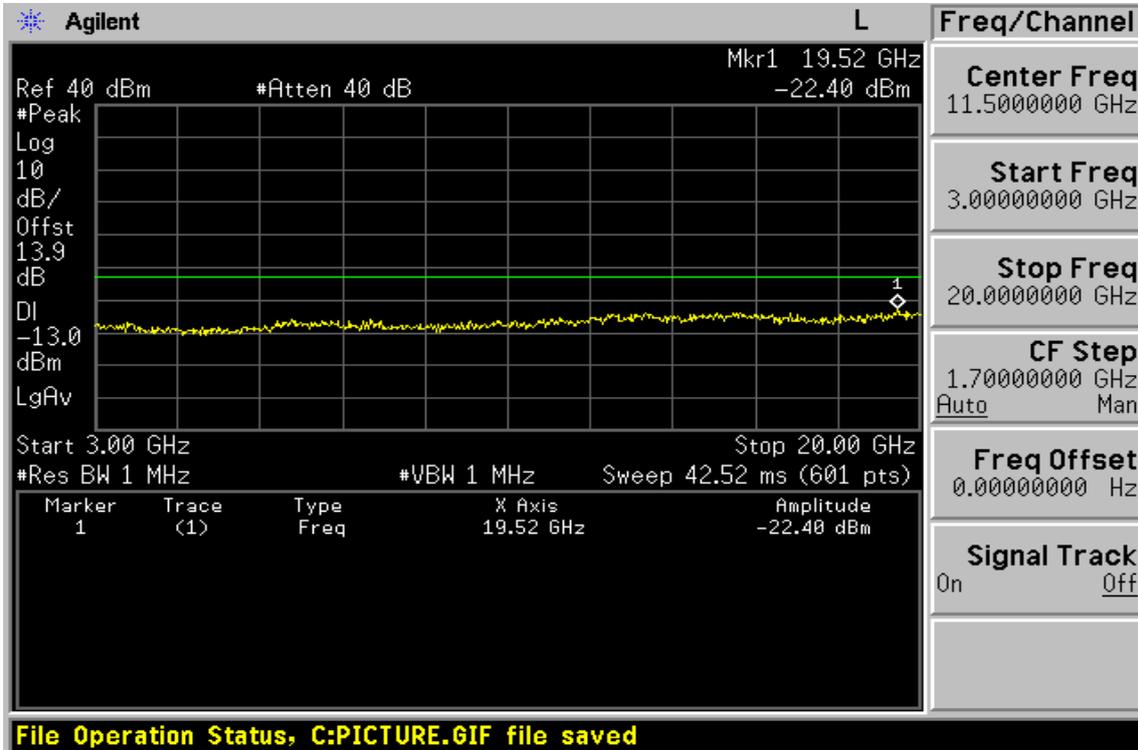
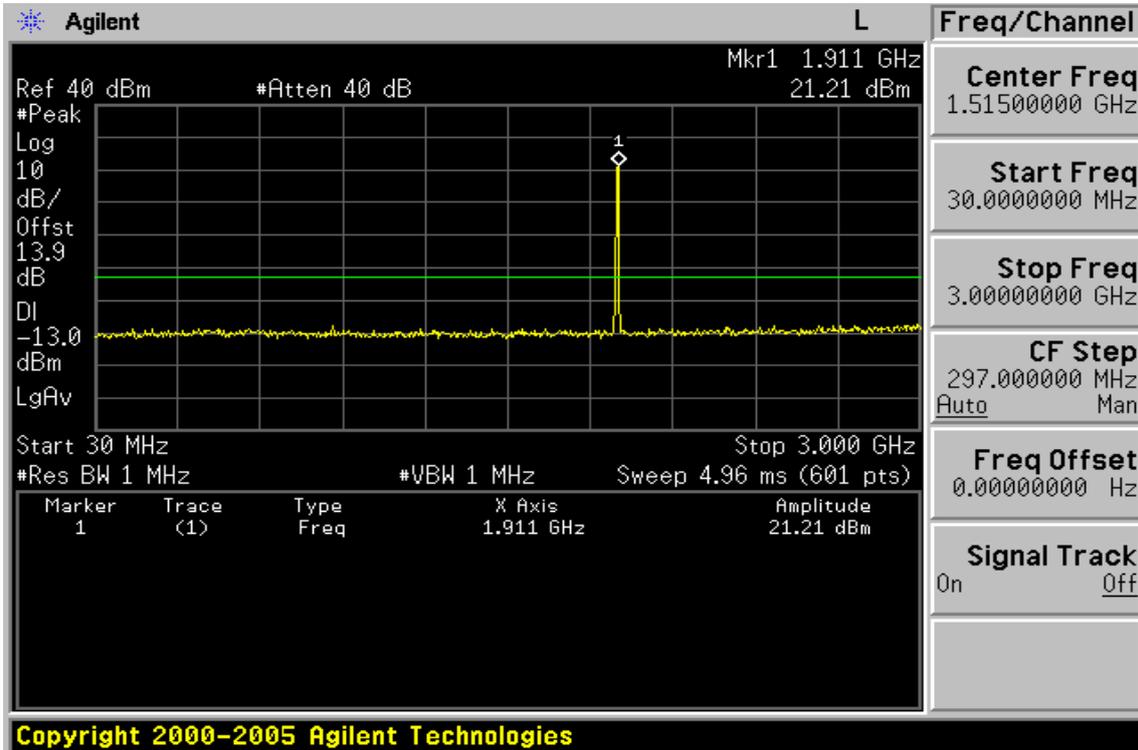
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Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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Figure 9-34: Band edge emission at antenna terminals – WCDMA II Channel Lowest

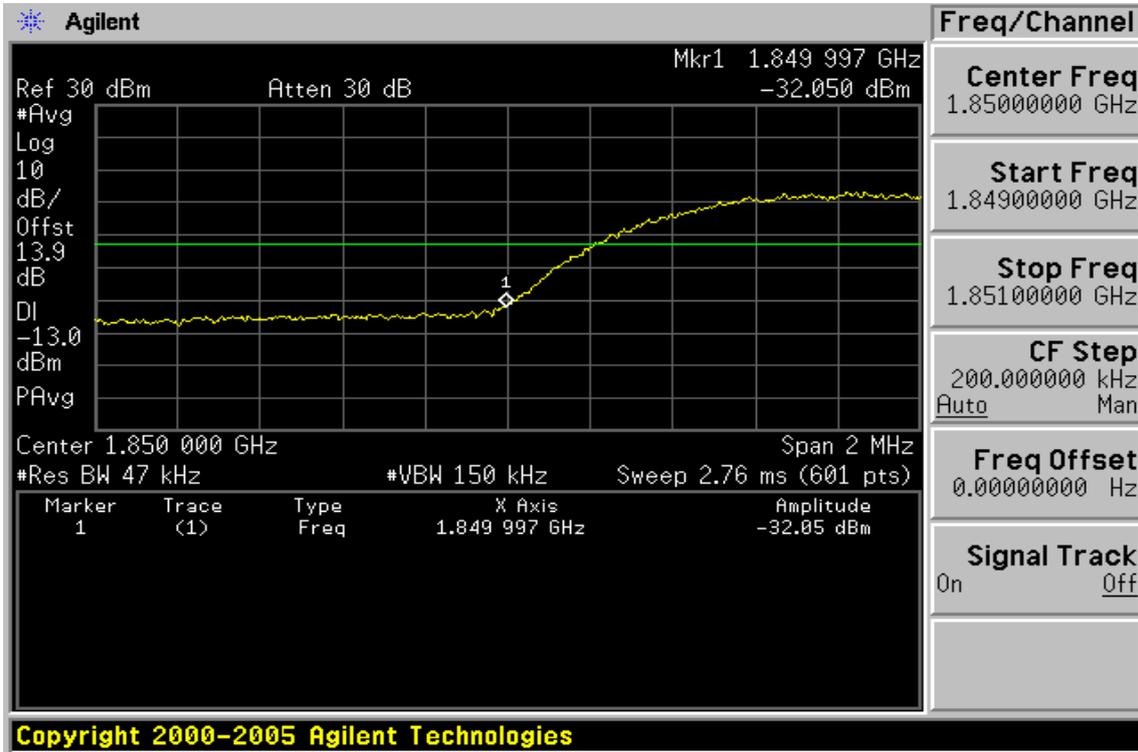


Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest



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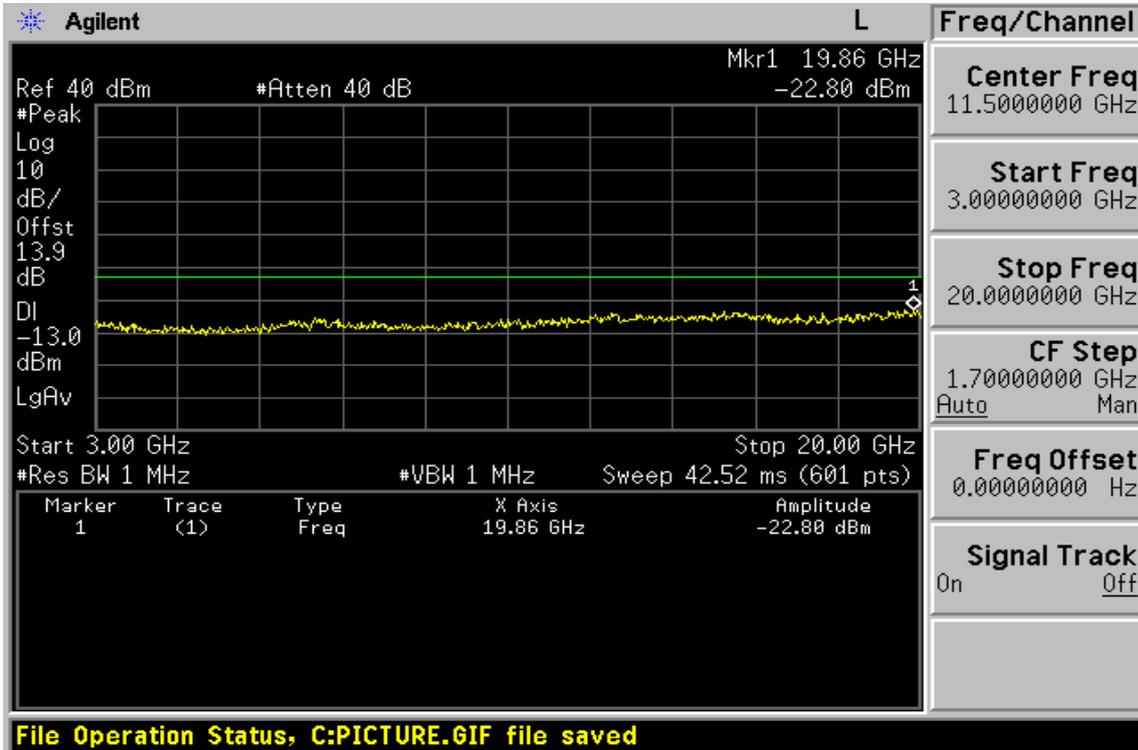
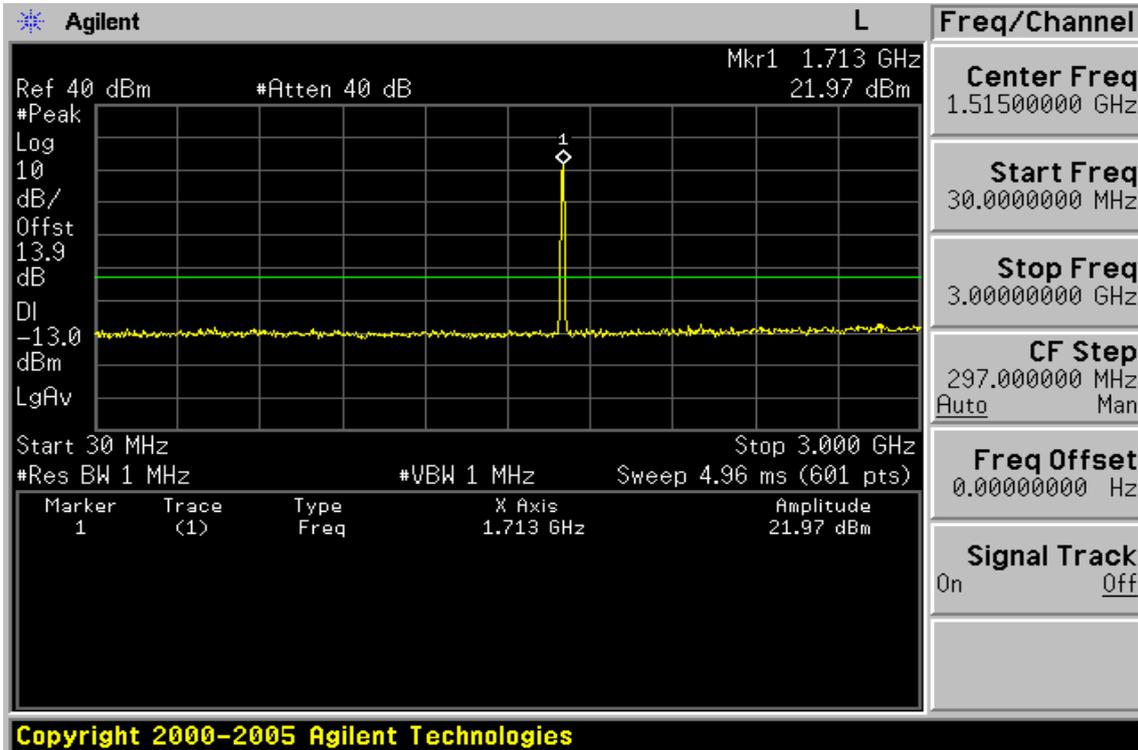
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Figure 9-36: Out of Band emission at antenna terminals – WCDMA IV Channel Lowest



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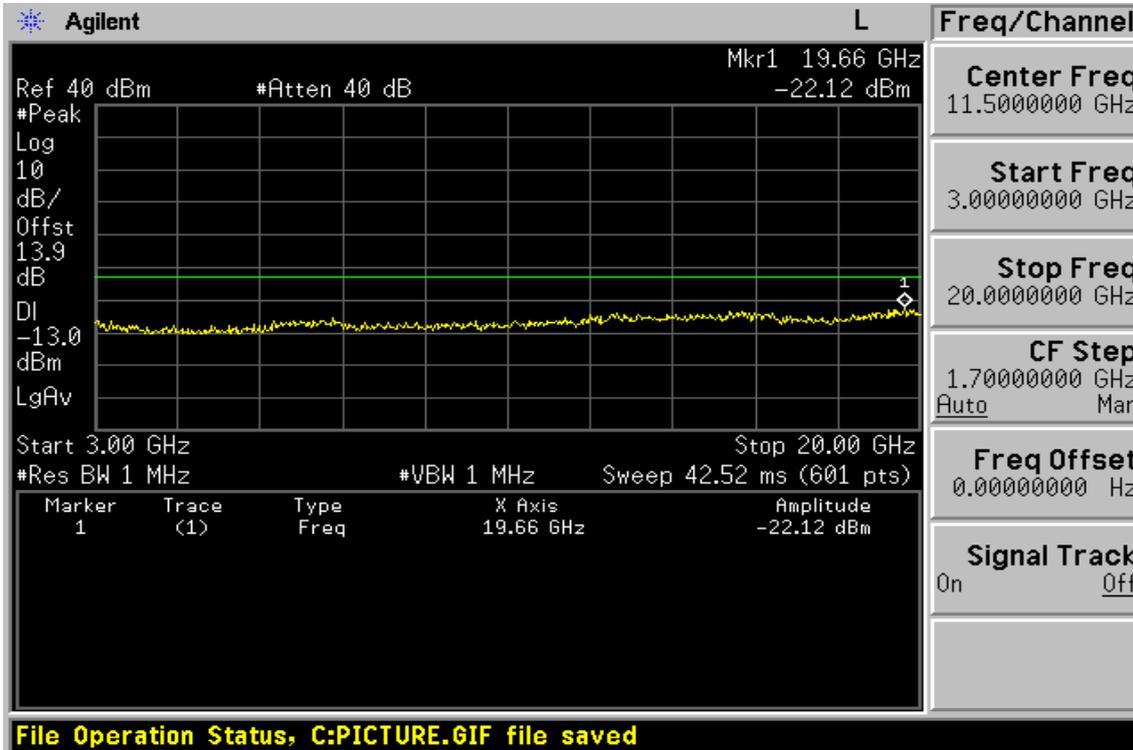
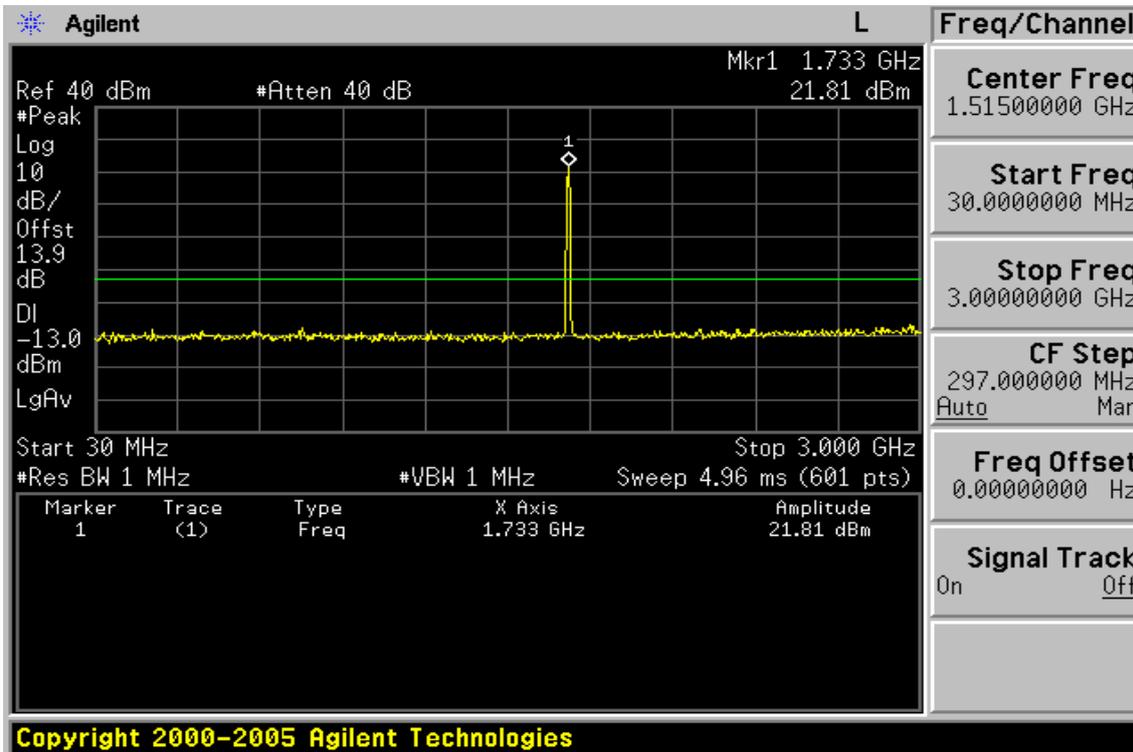
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Figure 9-37: Out of Band emission at antenna terminals – WCDMA IV Channel Mid



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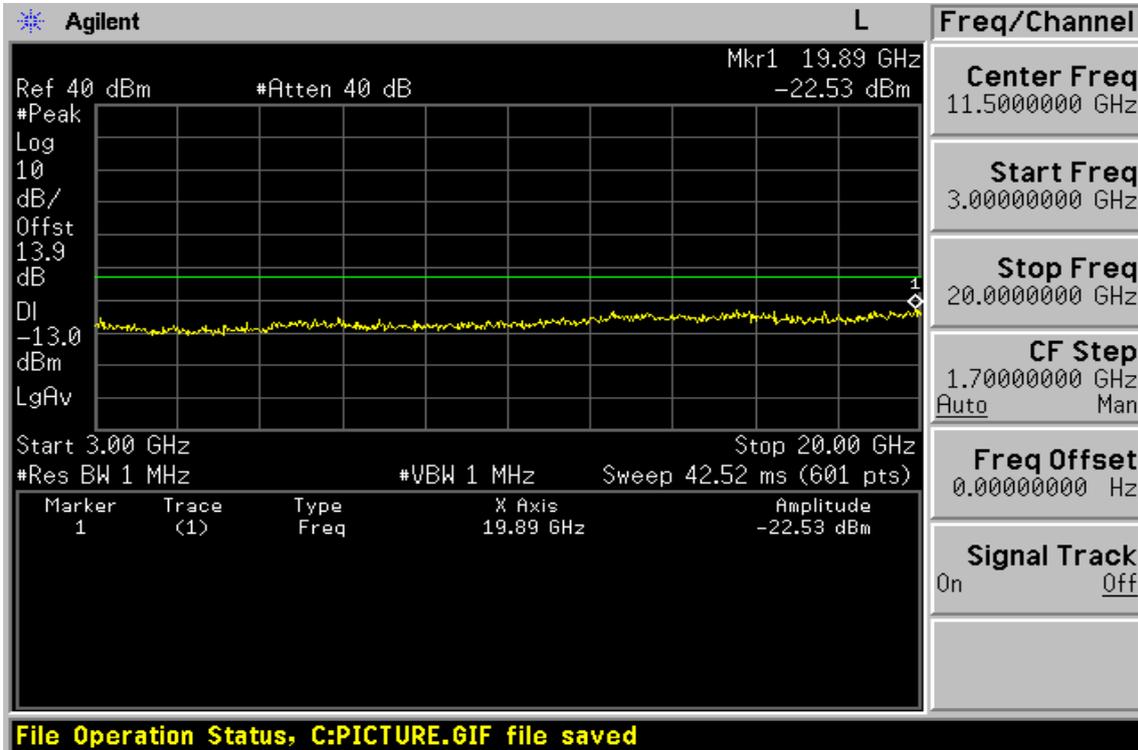
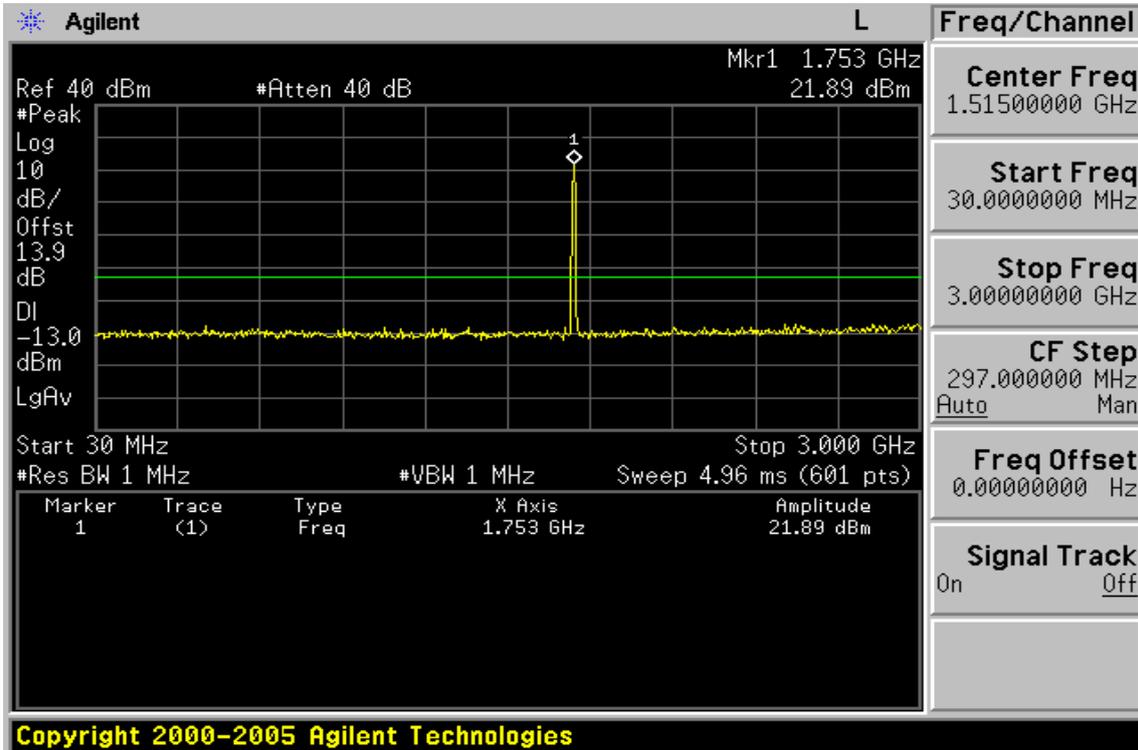
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Figure 9-38: Out of Band emission at antenna terminals – WCDMA IV Channel Highest



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Figure 9-39: Band edge emission at antenna terminals – WCDMA IV Channel Lowest

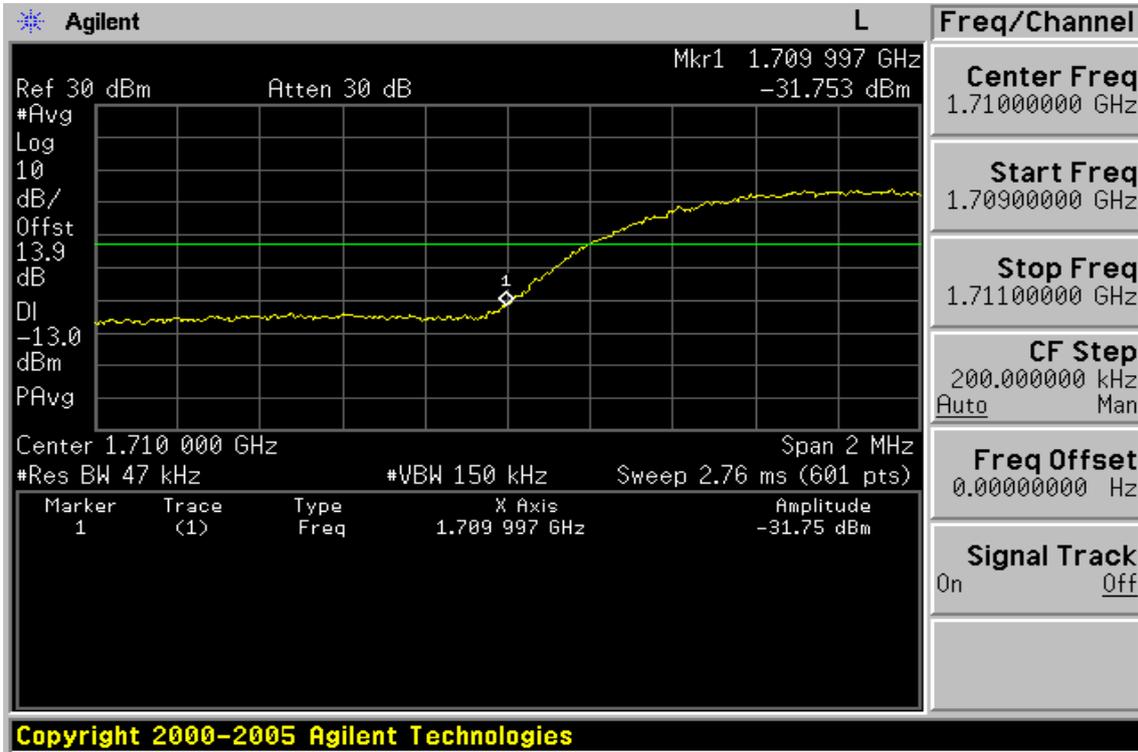
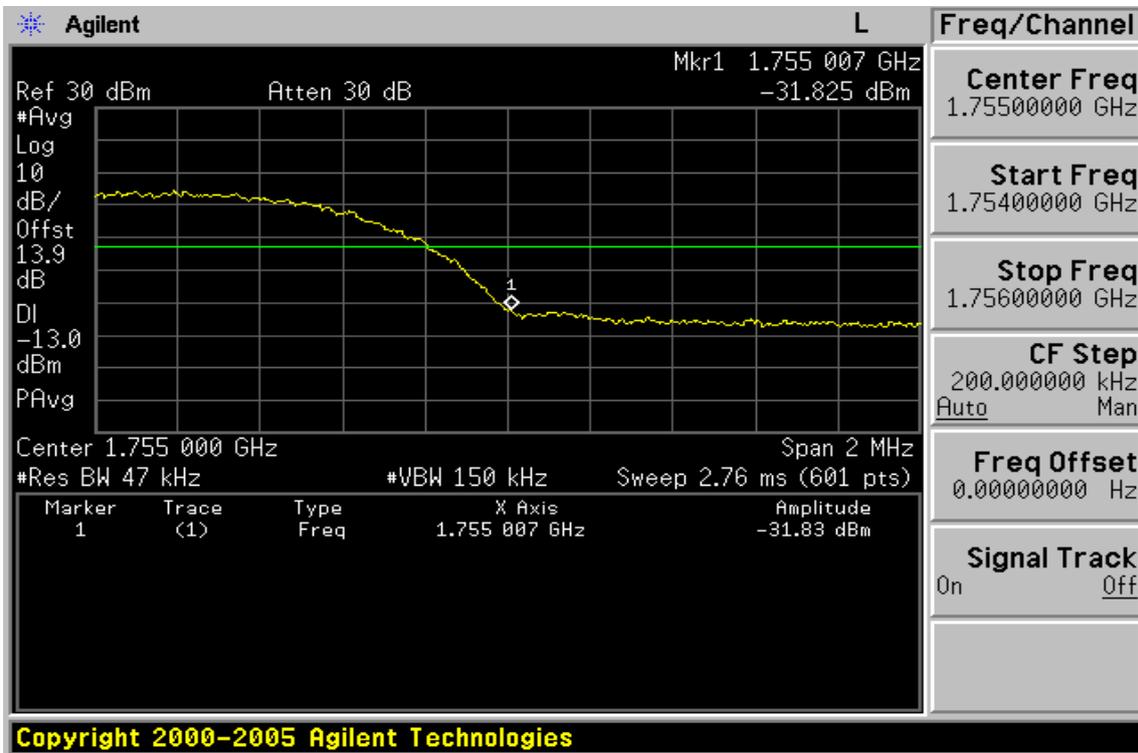


Figure 9-40: Band edge emission at antenna terminals – WCDMA IV Channel Highest



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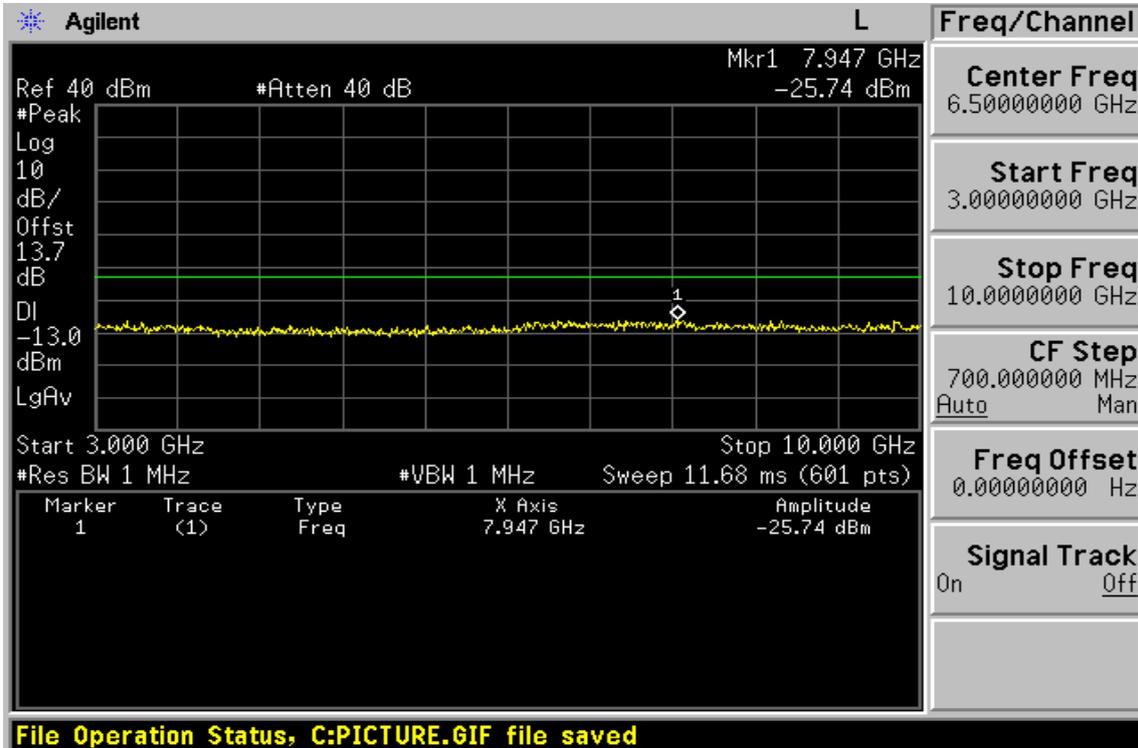
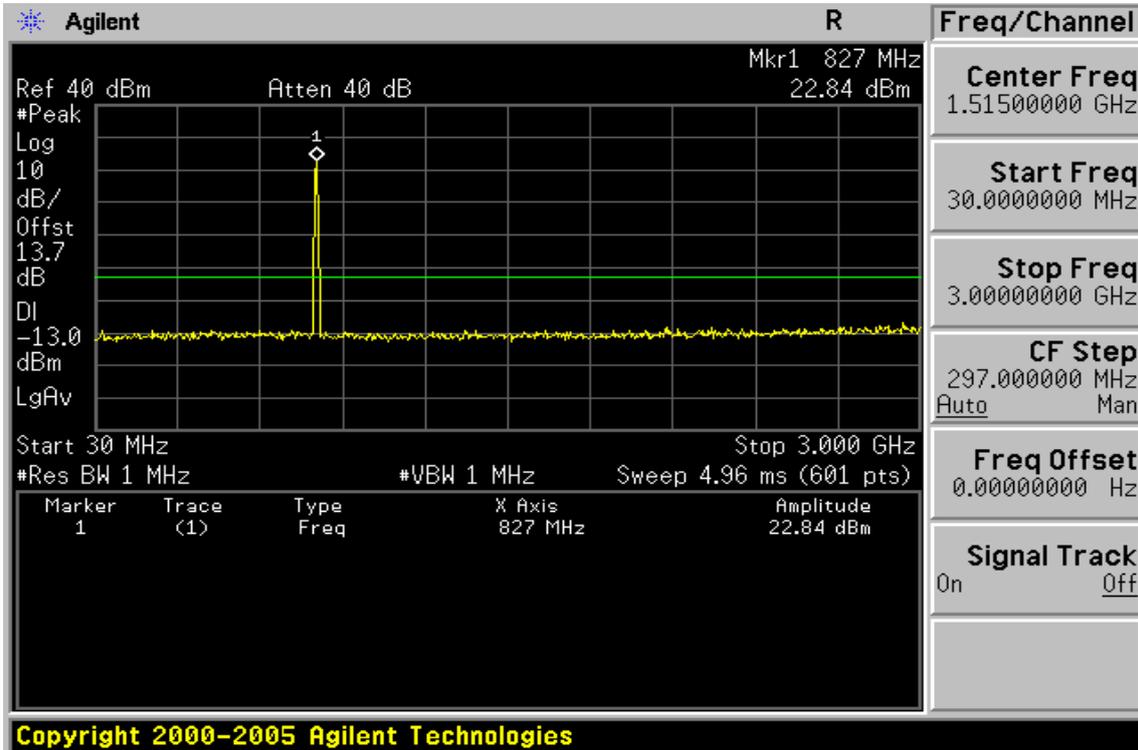
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Figure 9-41: Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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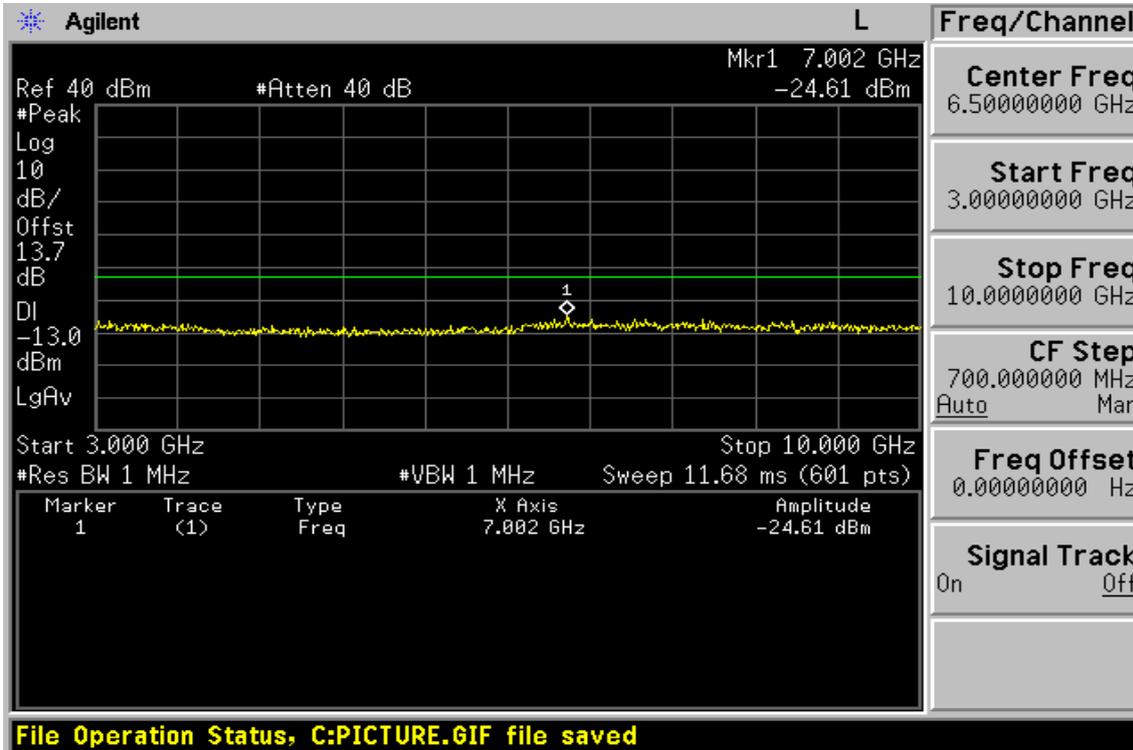
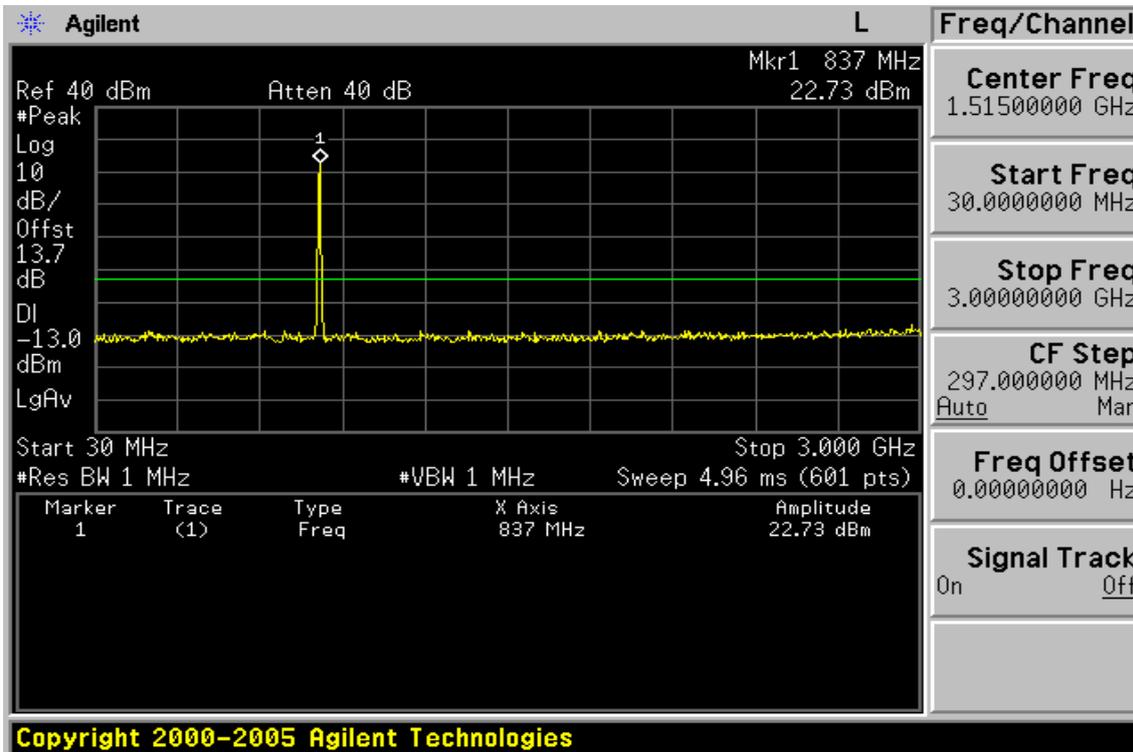
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Figure 9-42: Out of Band emission at antenna terminals – WCDMA V Channel Mid



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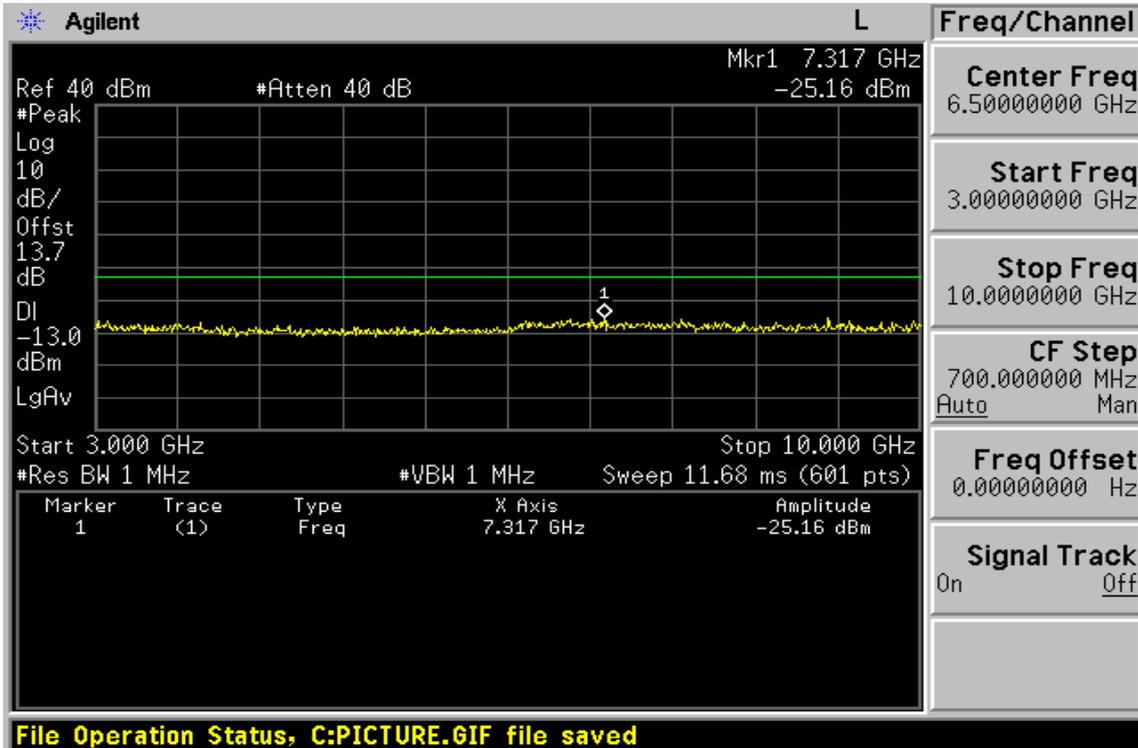
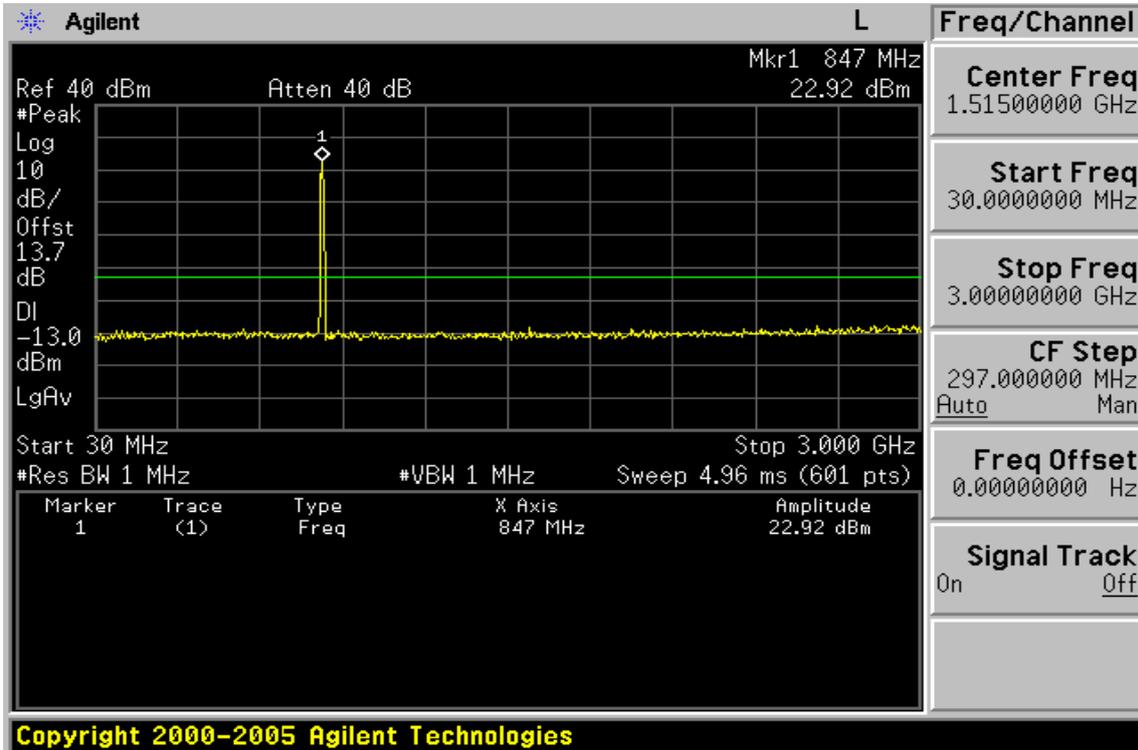
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Figure 9-43: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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Figure 9-44: Band edge emission at antenna terminals – WCDMA V Channel Lowest

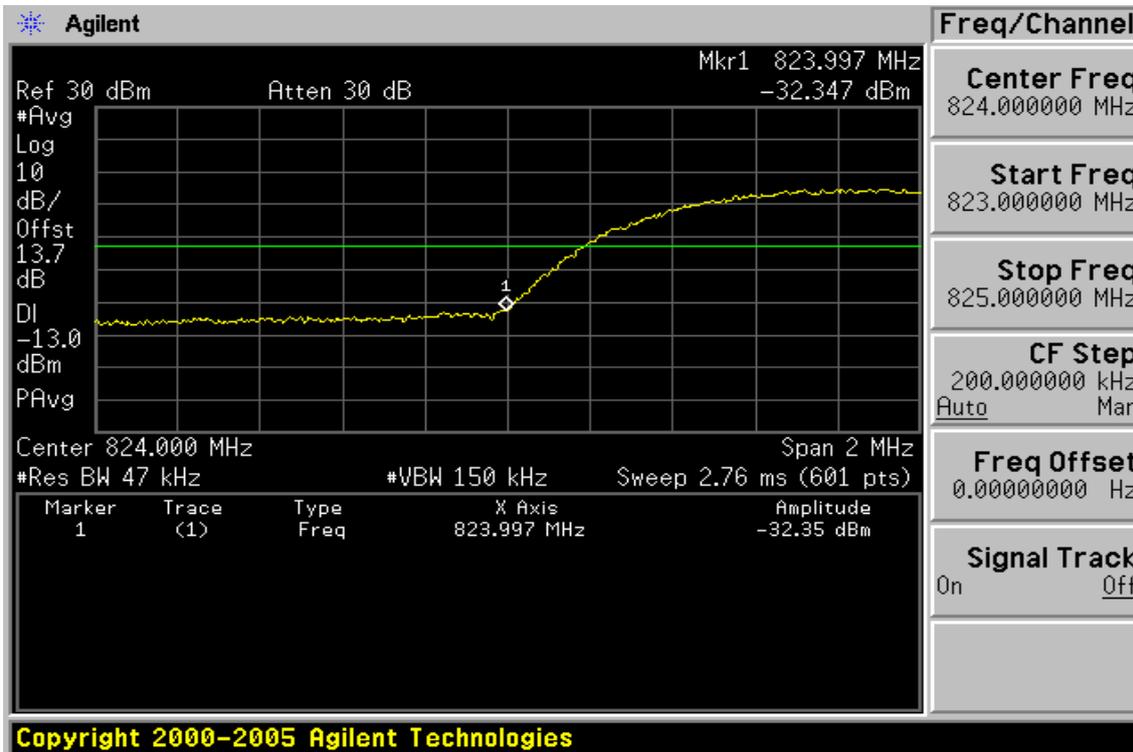
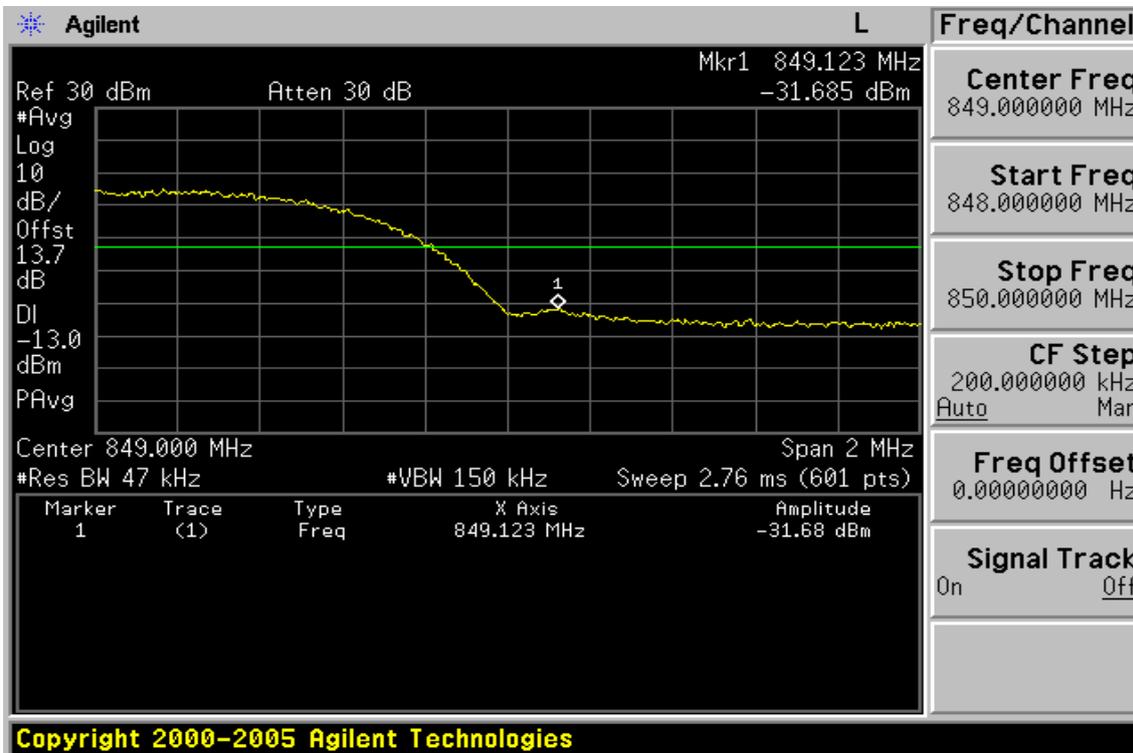


Figure 9-45: Band edge emission at antenna terminals – WCDMA V Channel Highest



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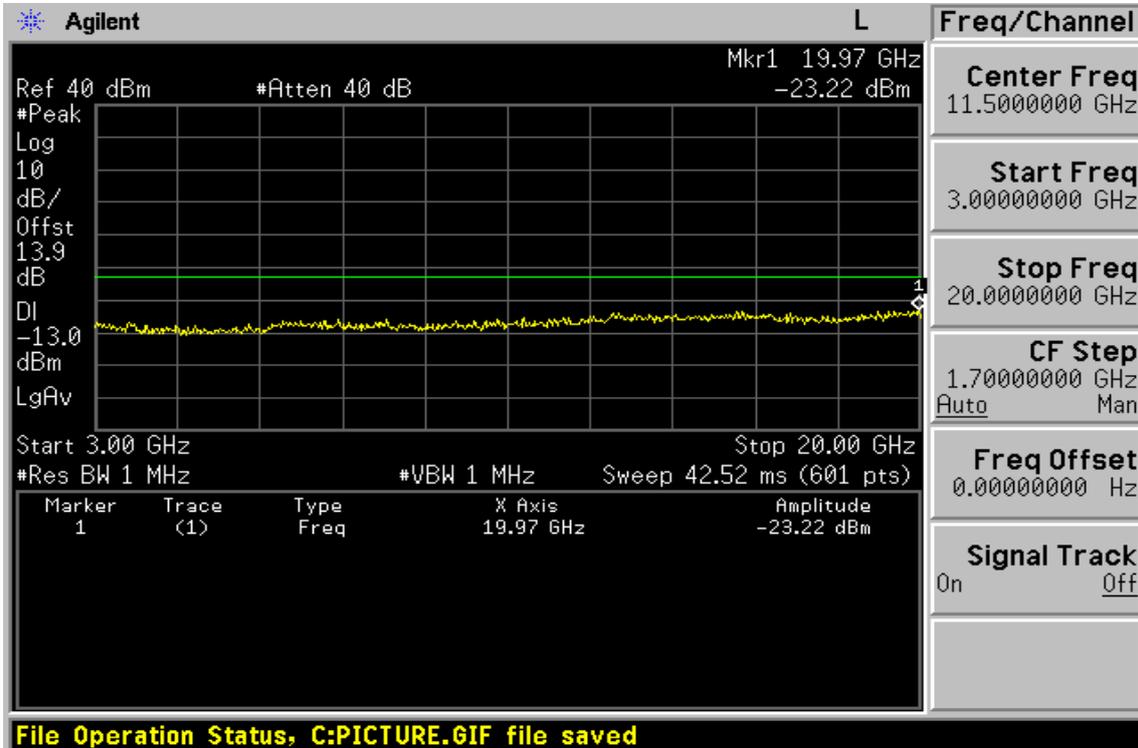
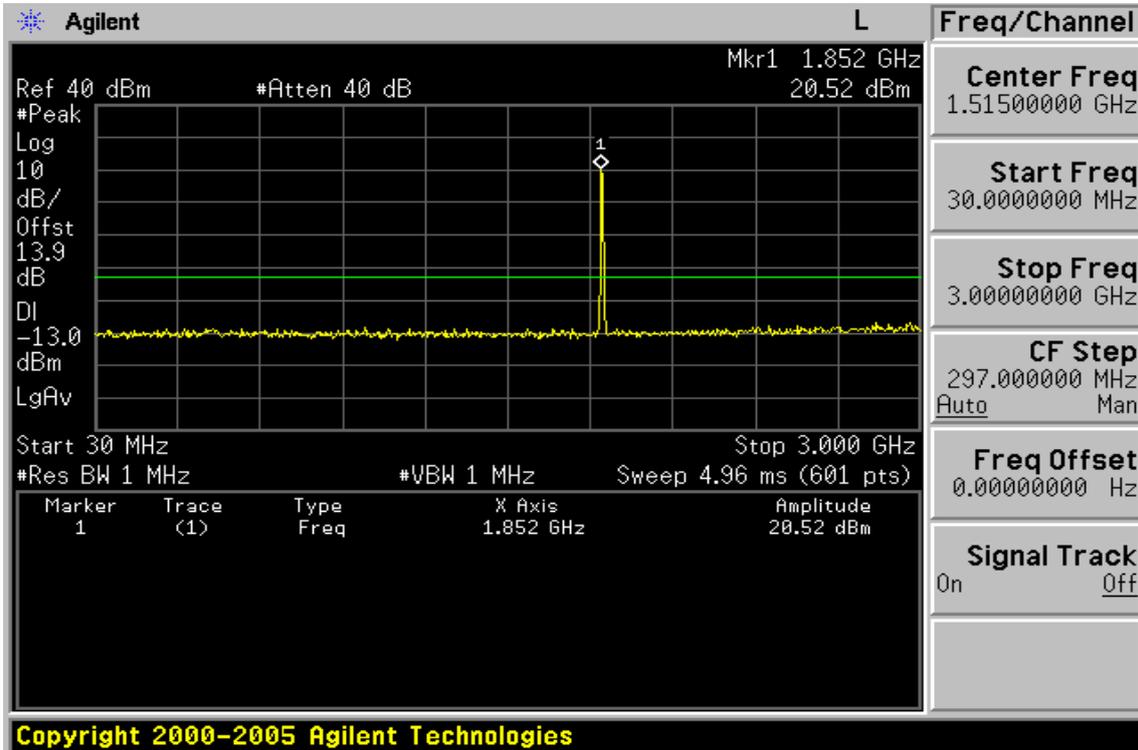
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Figure 9-46: Out of Band emission at antenna terminals – HSDPA II Channel Lowest



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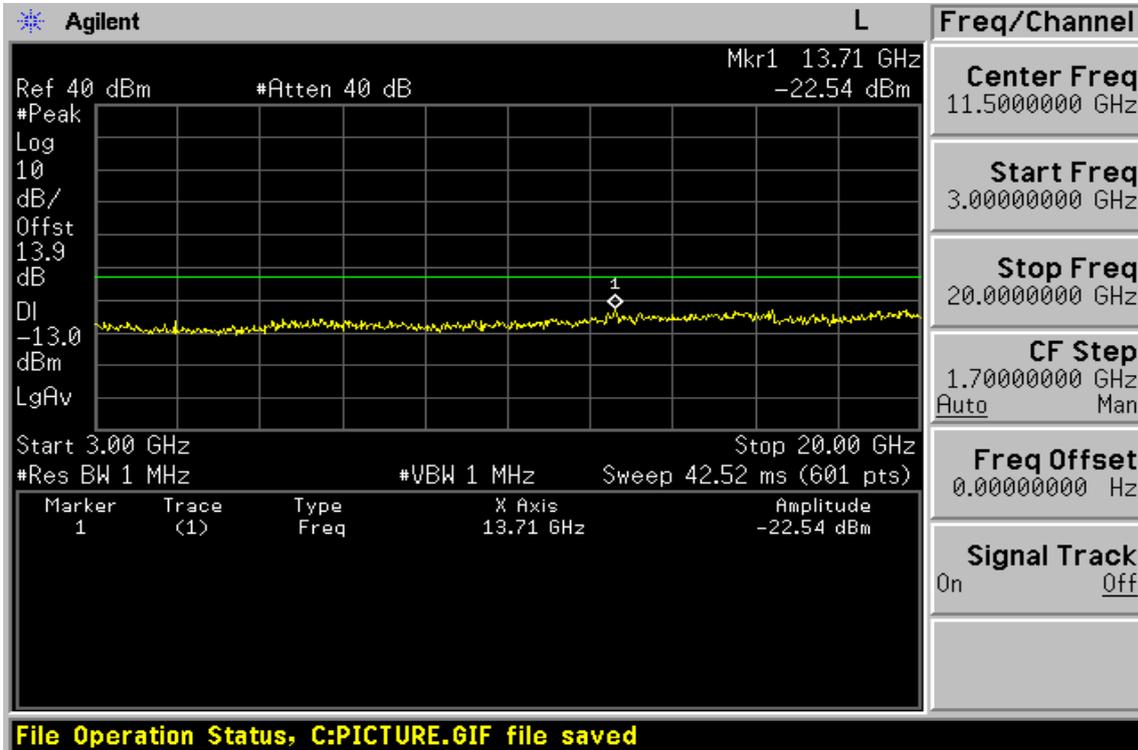
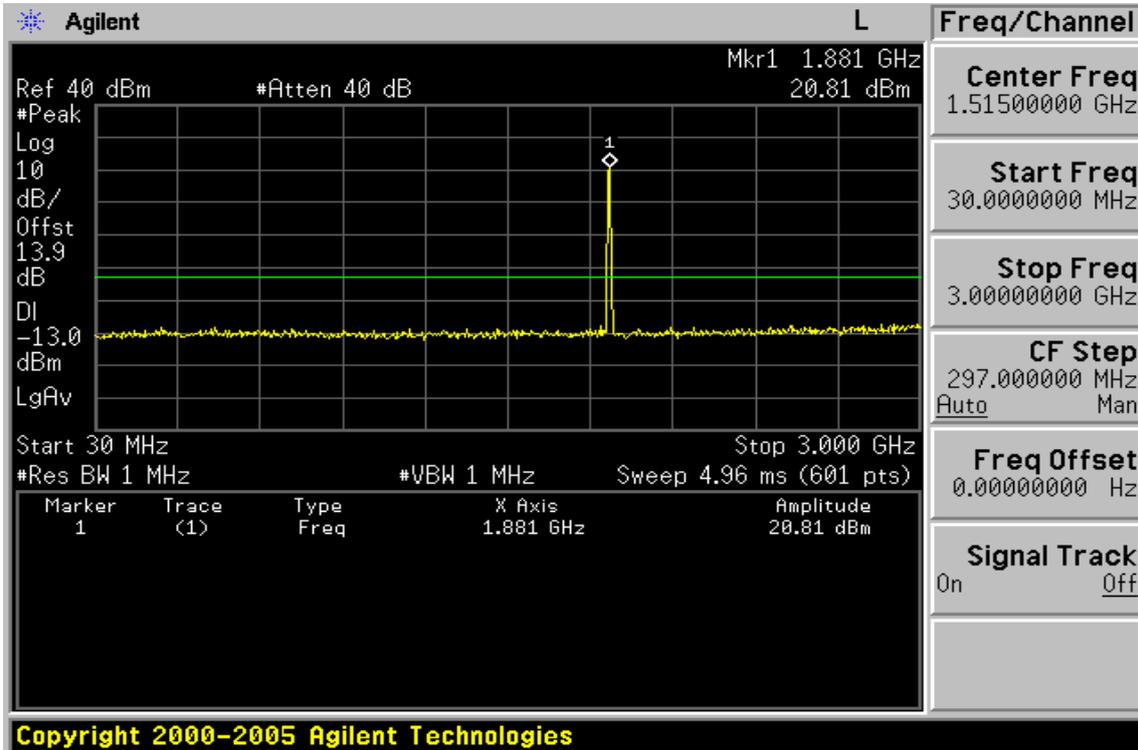
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Figure 9-47: Out of Band emission at antenna terminals – HSDPA II Channel Mid



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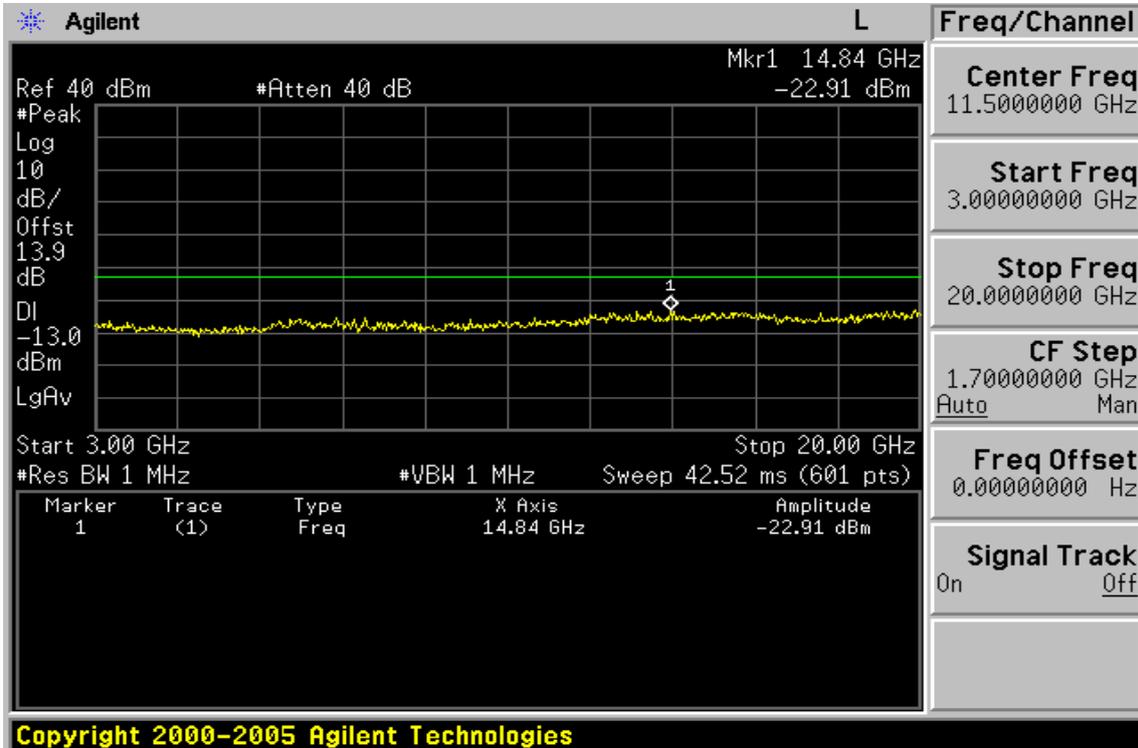
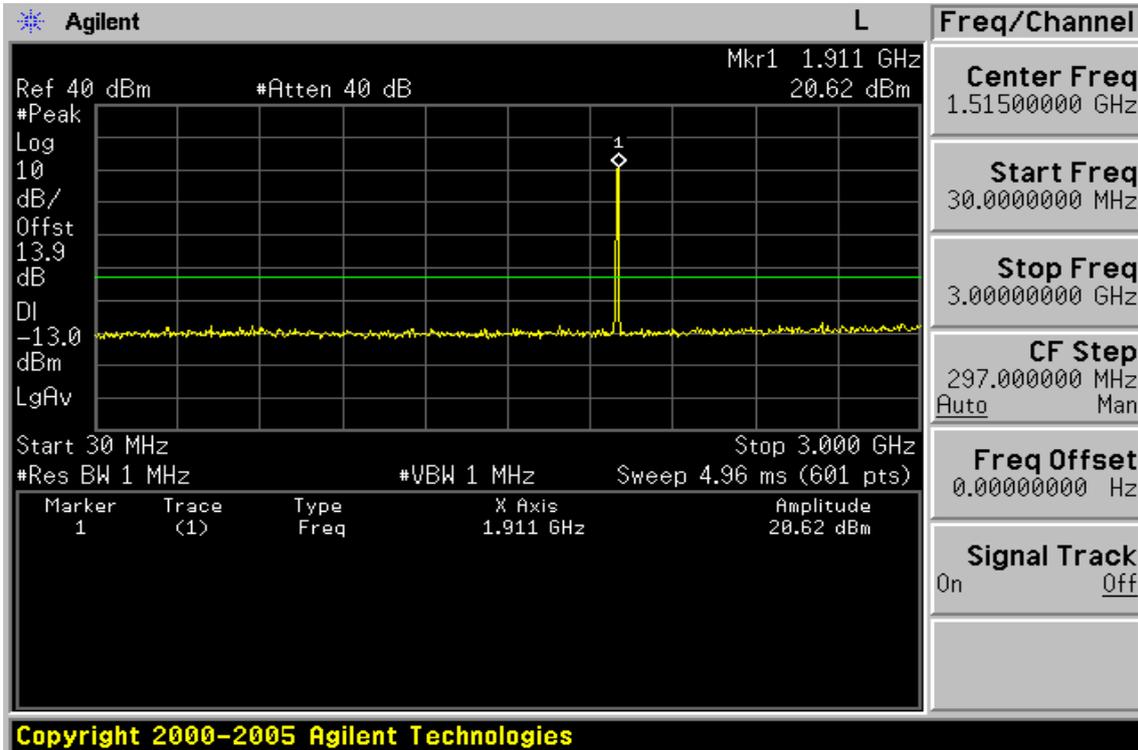
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Figure 9-48: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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Figure 9-49: Band edge emission at antenna terminals – HSDPA II Channel Lowest

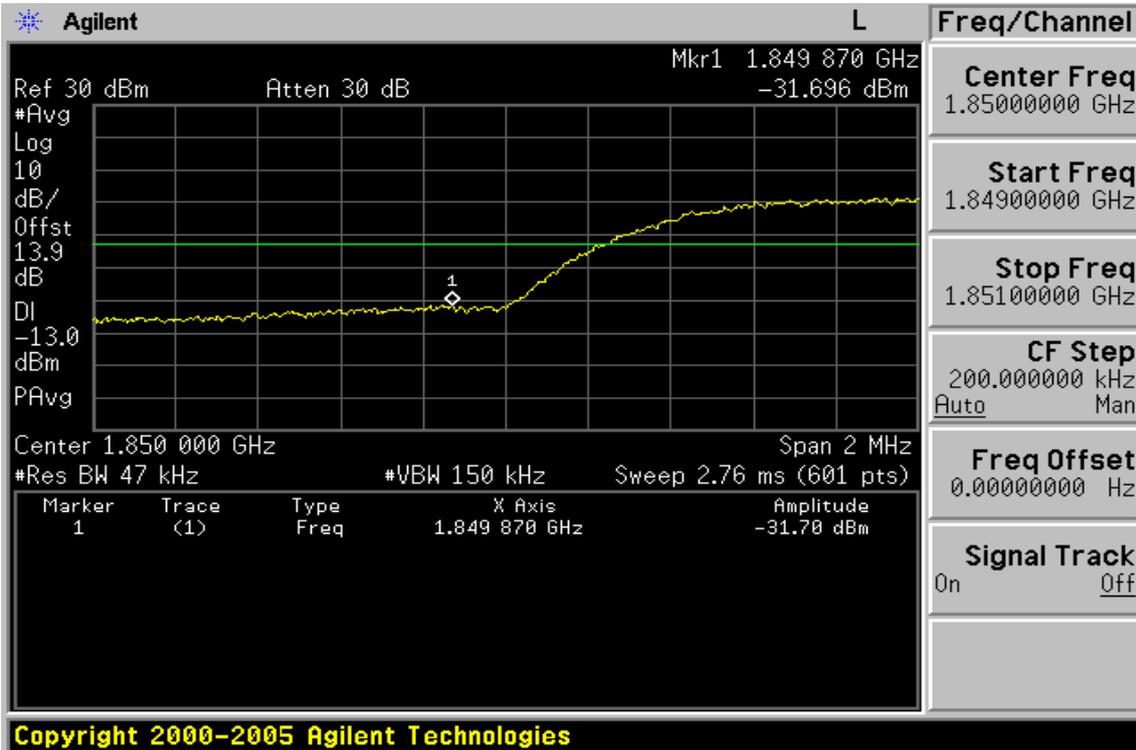
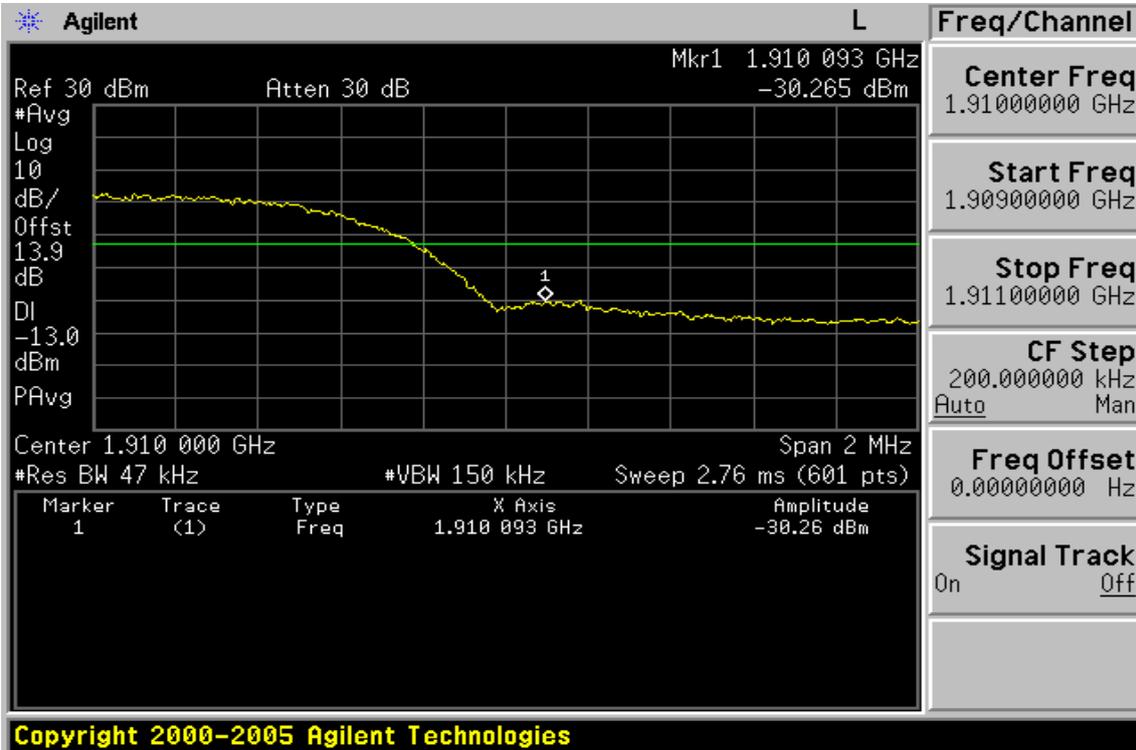


Figure 9-50: Band edge emission at antenna terminals – HSDPA II Channel Highest

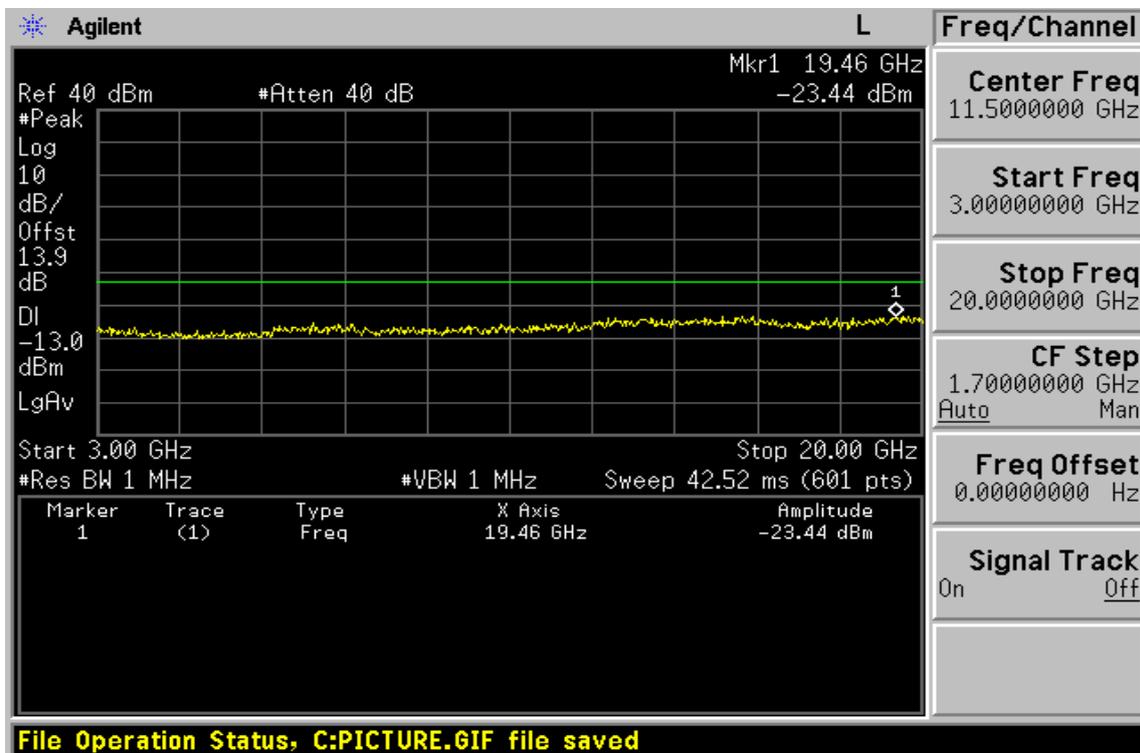
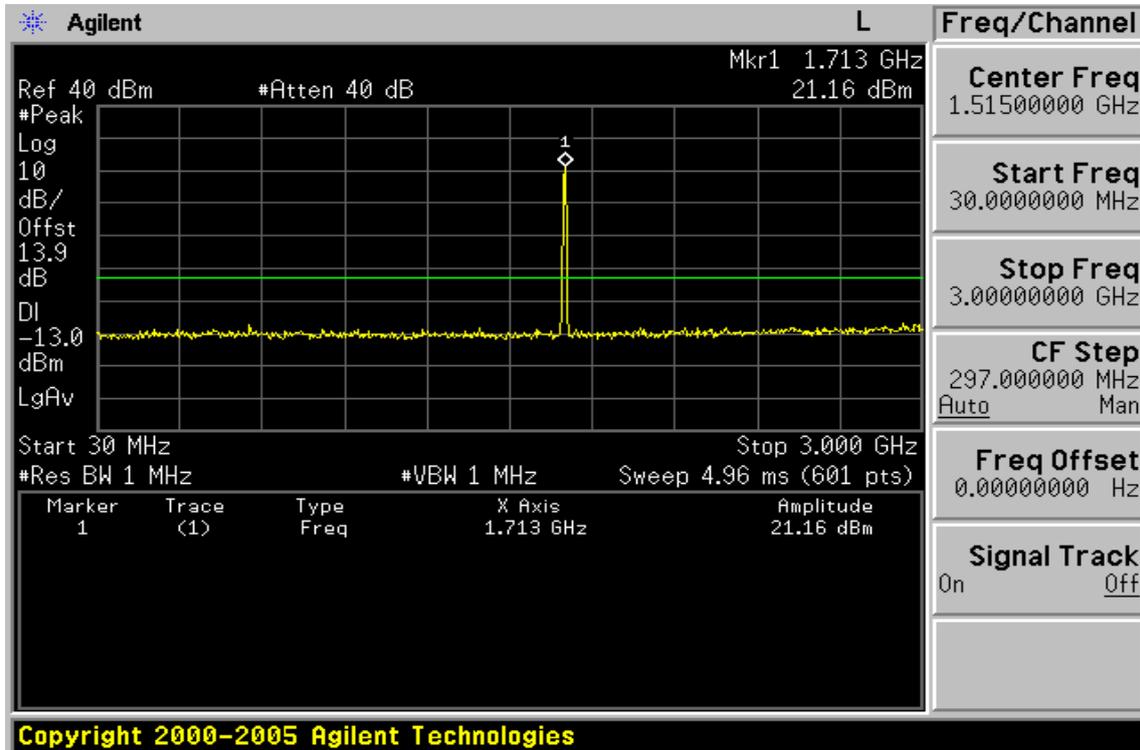


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Figure 9-51: Out of Band emission at antenna terminals HSDPA IV Channel Lowest

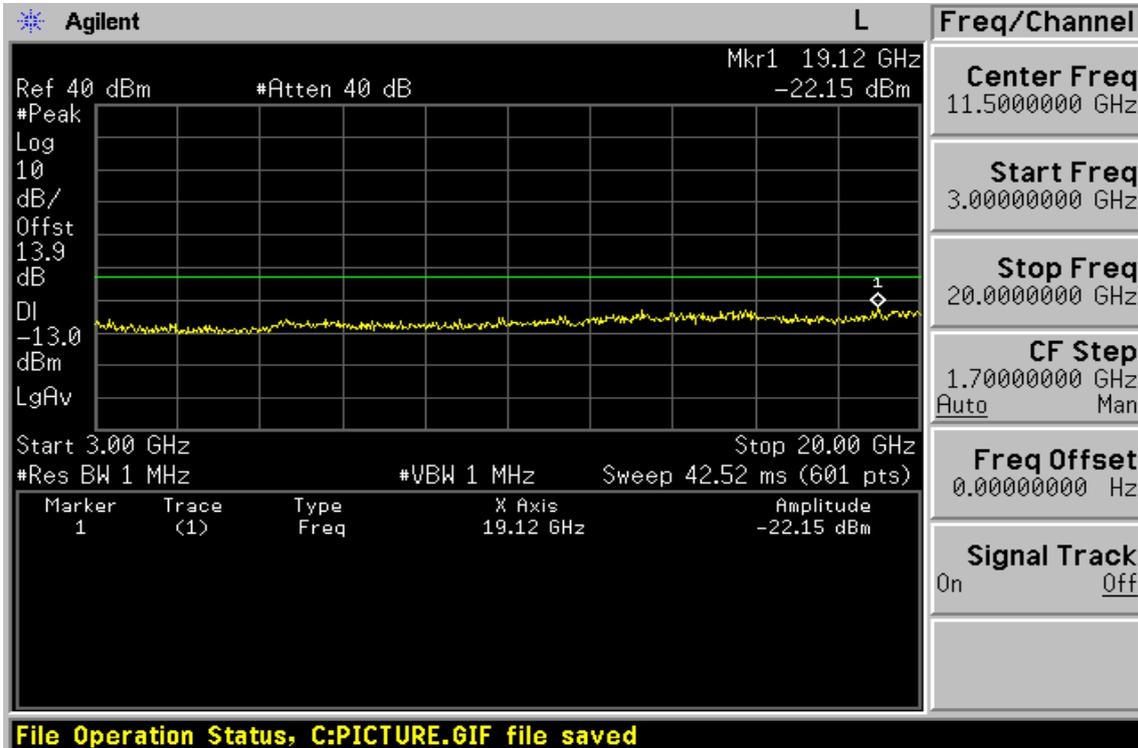
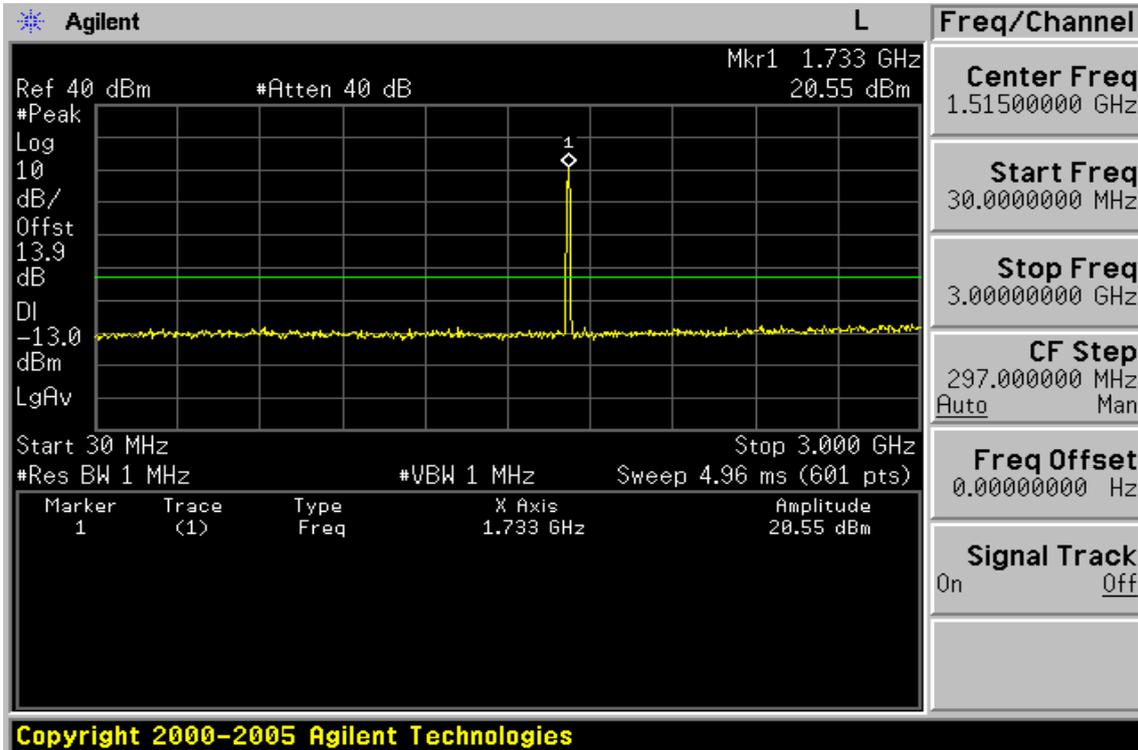


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Figure 9-52: Out of Band emission at antenna terminals –HSDPA IV Channel Mid



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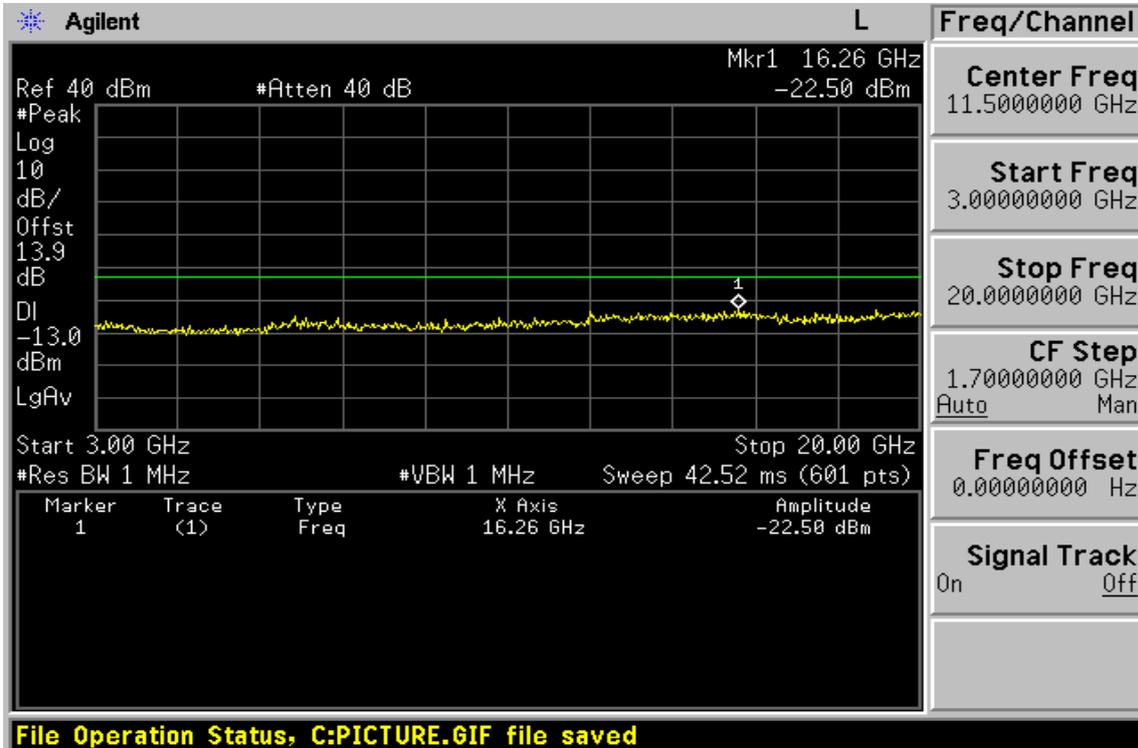
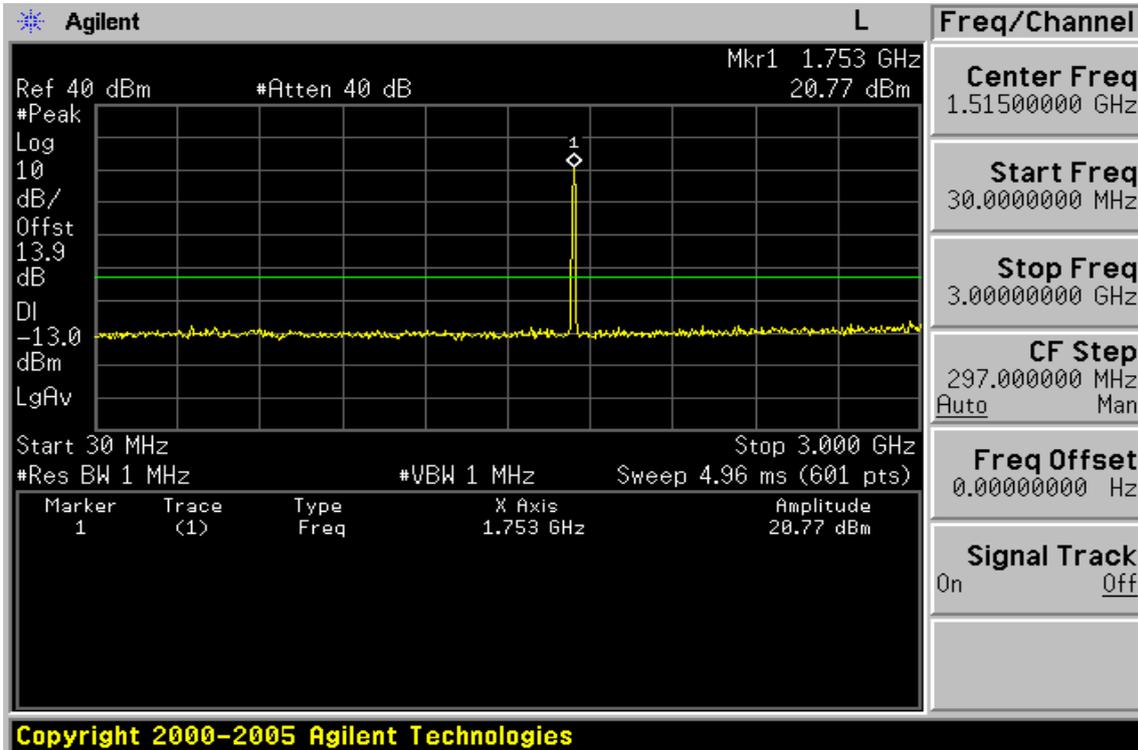
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Figure 9-53: Out of Band emission at antenna terminals –HSDPA IV Channel Highest



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Figure 9-54: Band edge emission at antenna terminals –HSDPA IV Channel Lowest

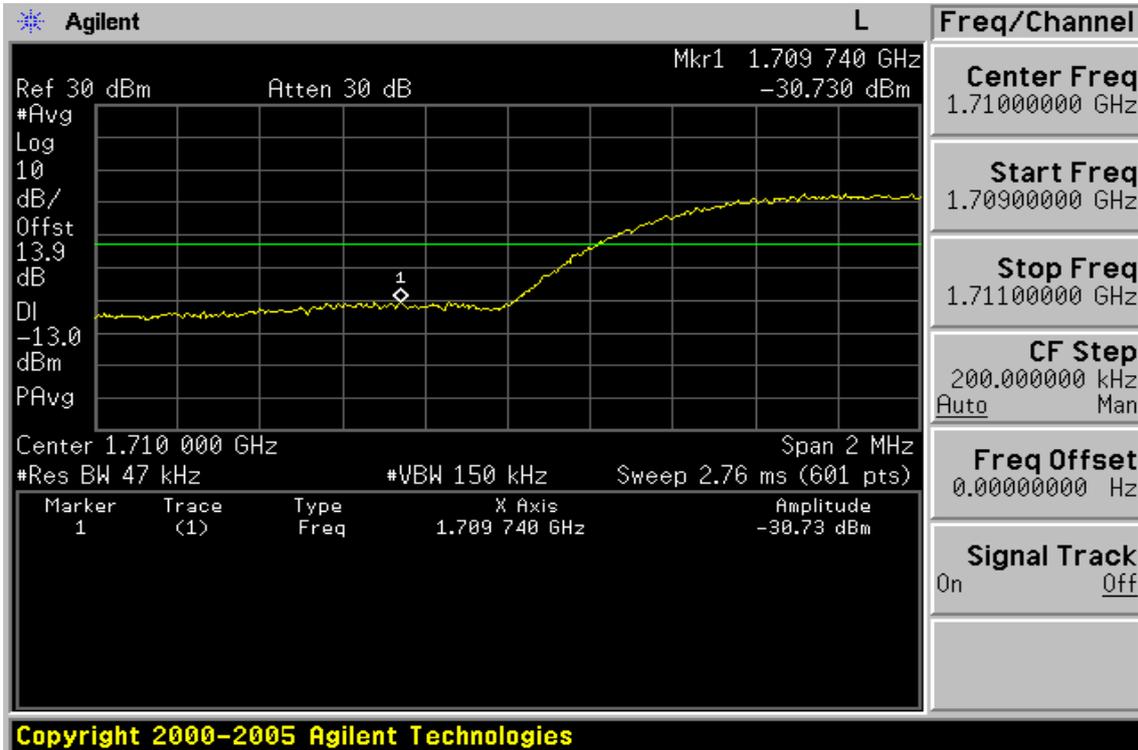
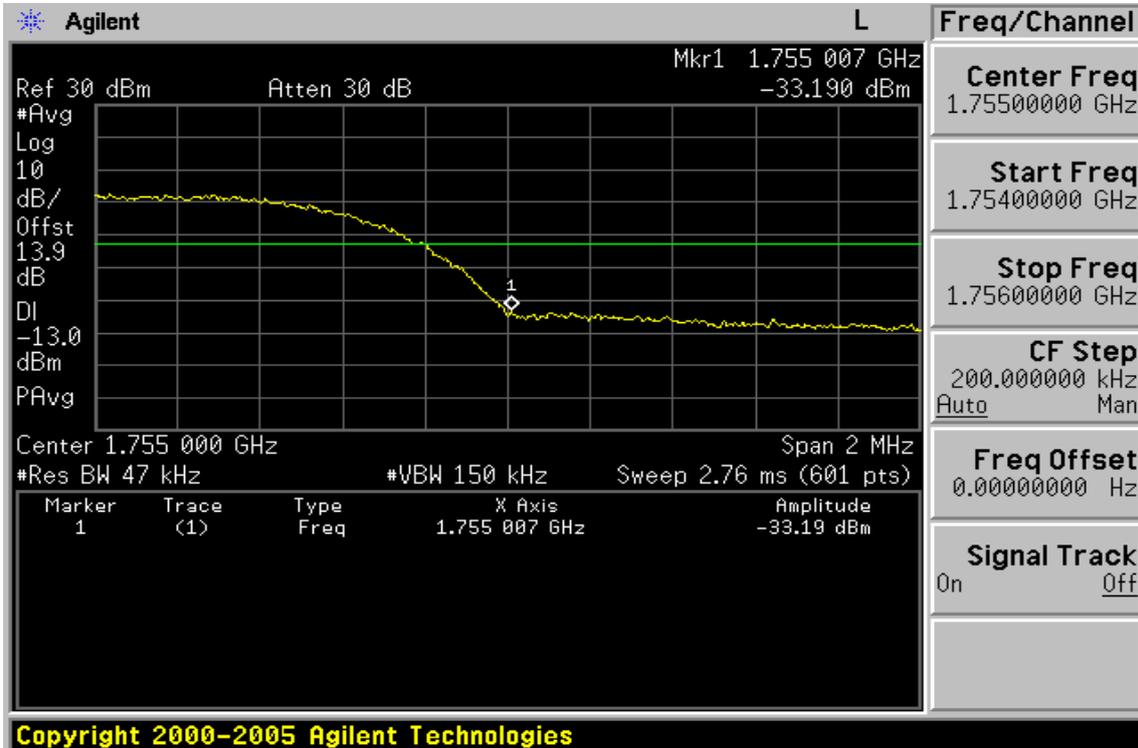


Figure 9-55: Band edge emission at antenna terminals –HSDPA IV Channel Highest



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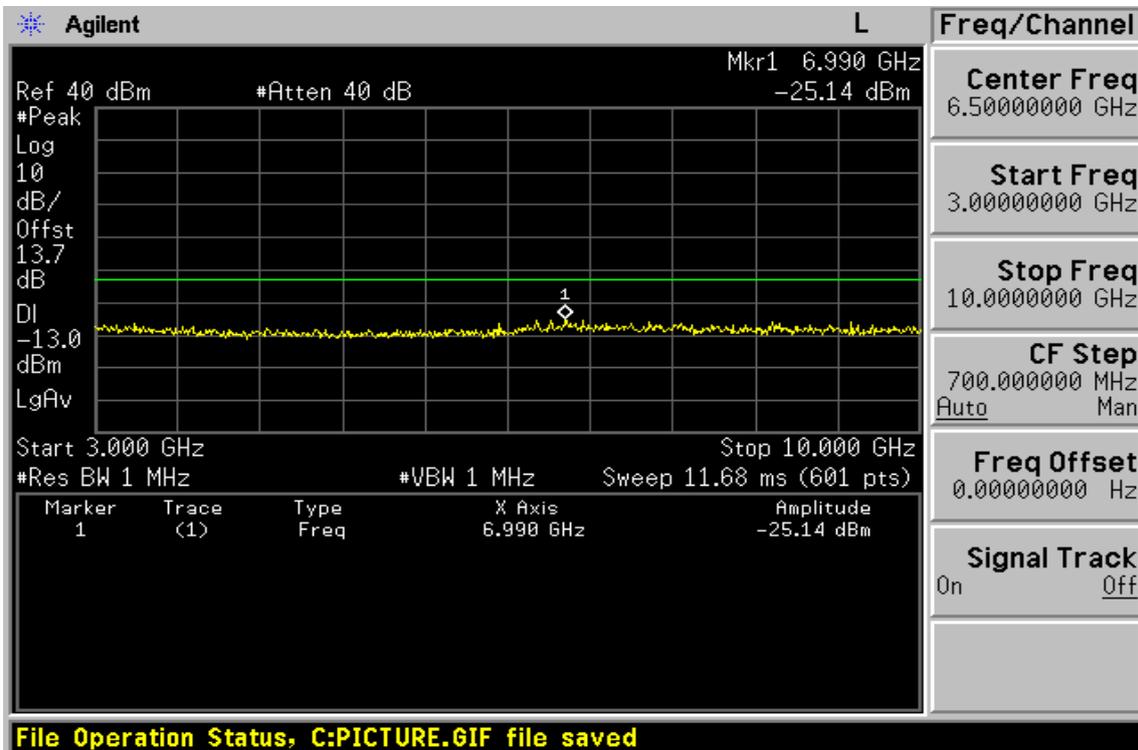
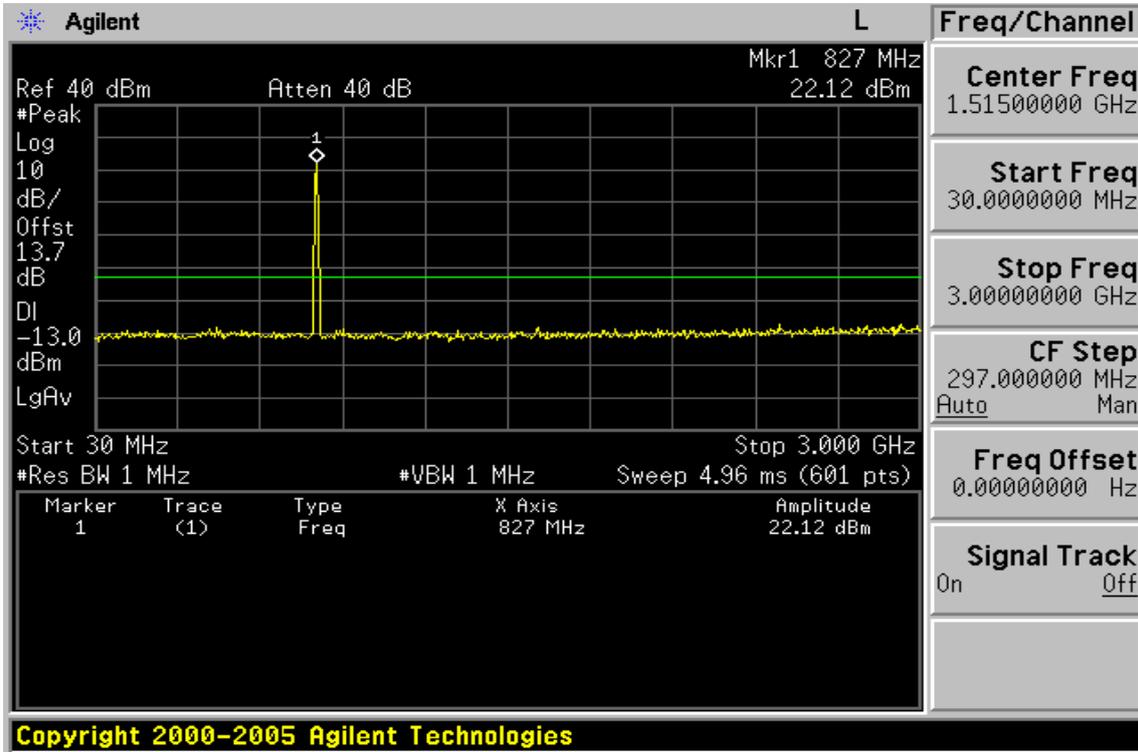
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Figure 9-56: Out of Band emission at antenna terminals – HSDPA V Channel Lowest



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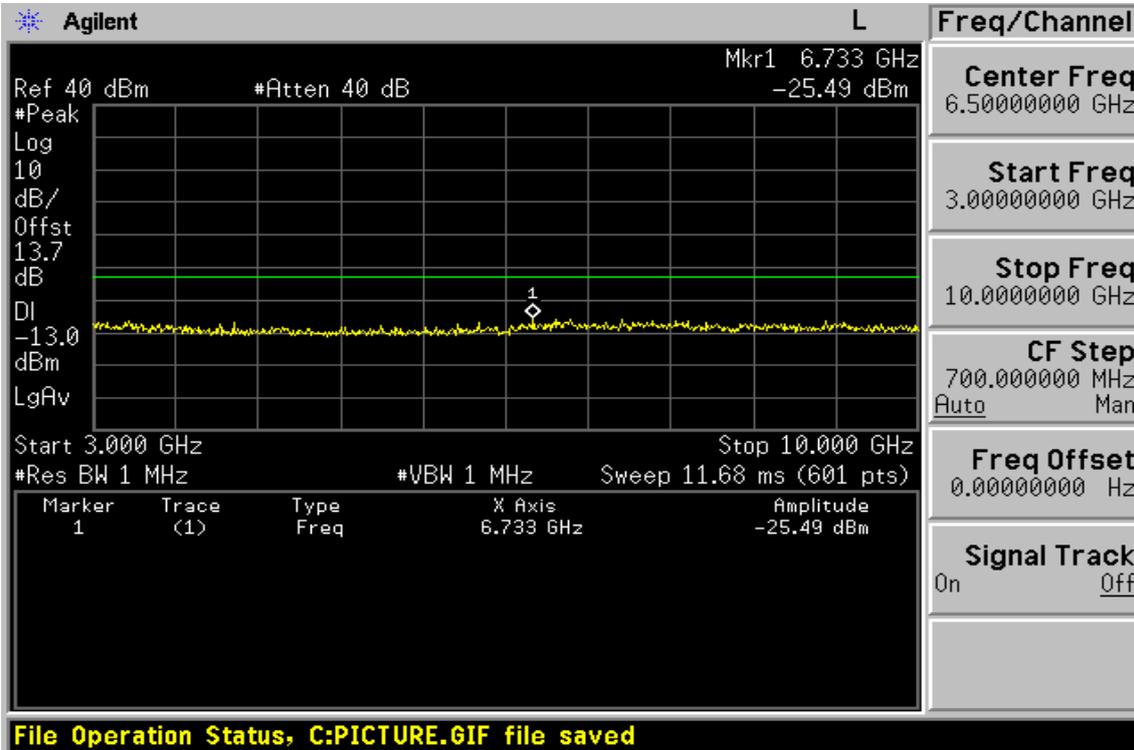
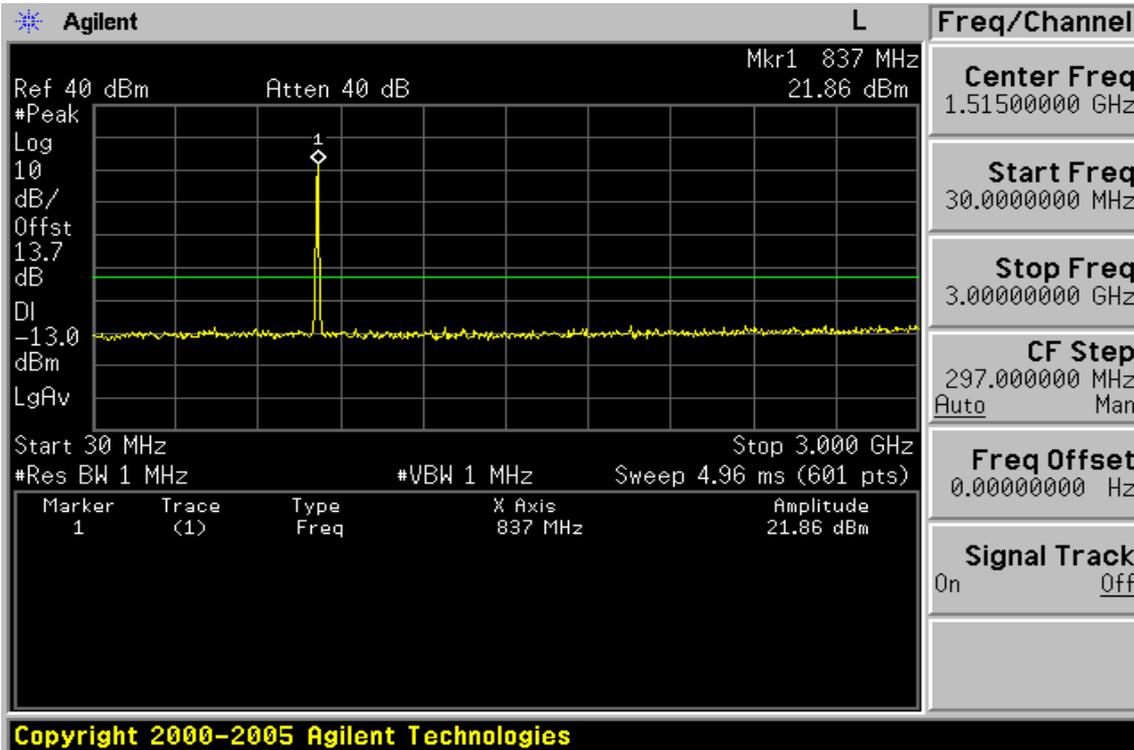
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Figure 9-57: Out of Band emission at antenna terminals – HSDPA V Channel Mid

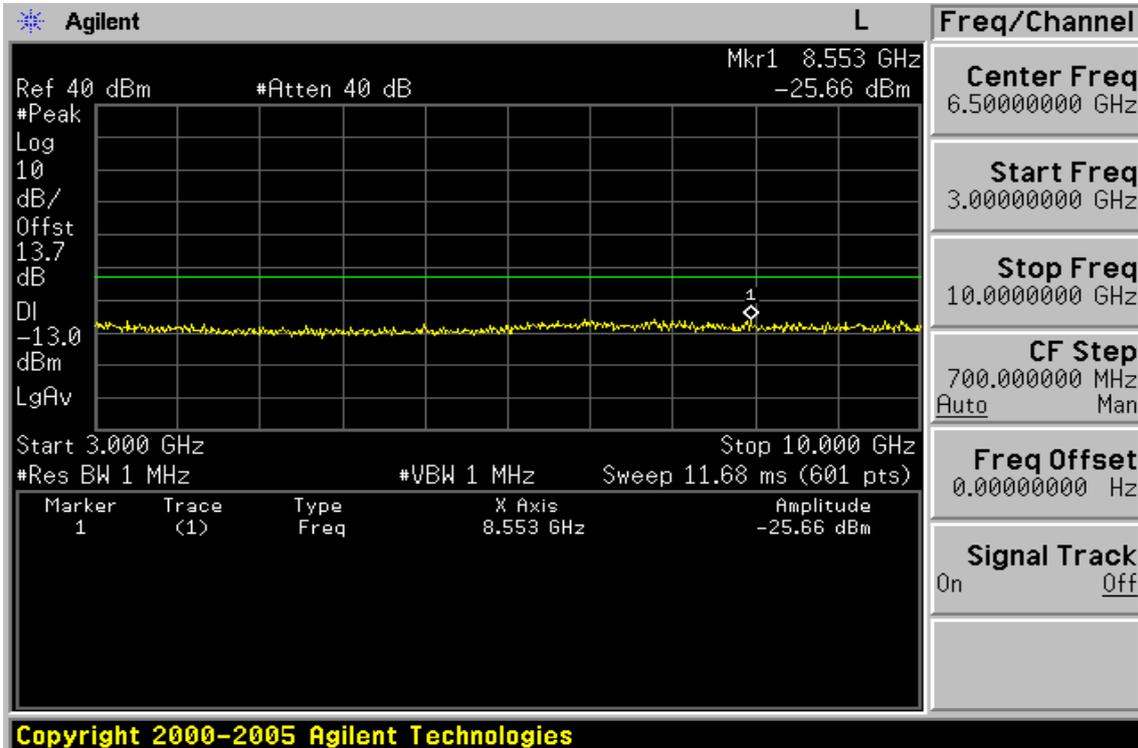
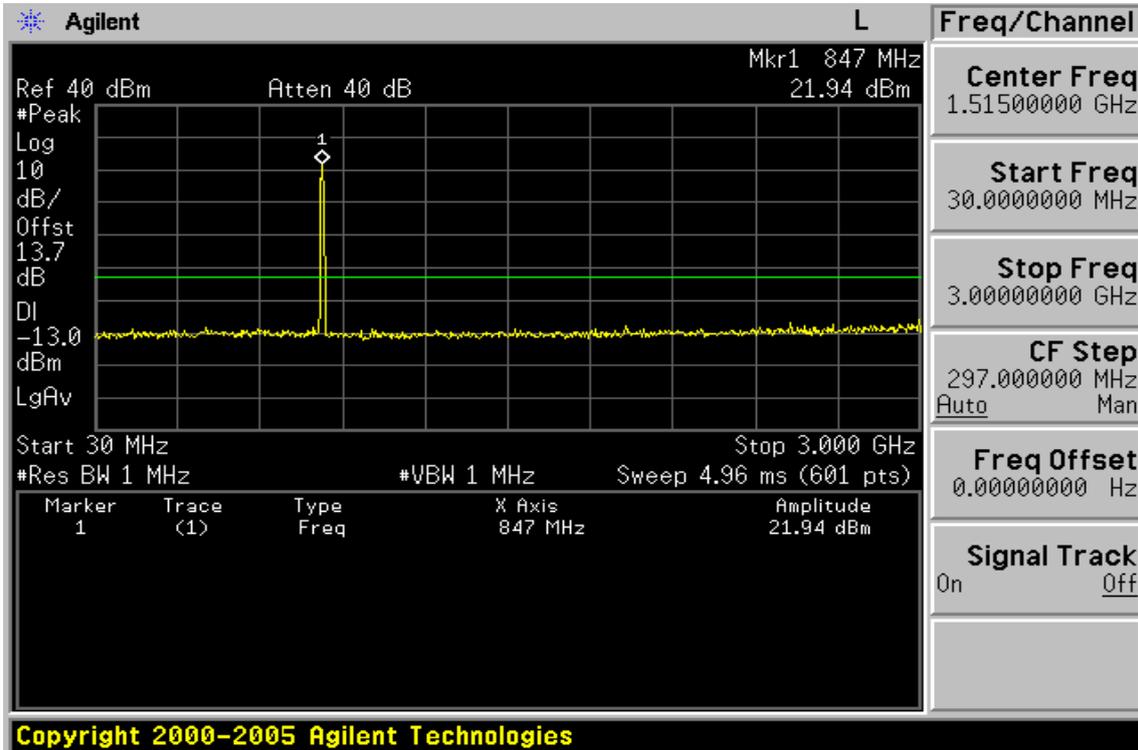


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Figure 9-58: Out of Band emission at antenna terminals – HSDPA V Channel Highest



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Figure 9-59: Band edge emission at antenna terminals – HSDPA V Channel Lowest

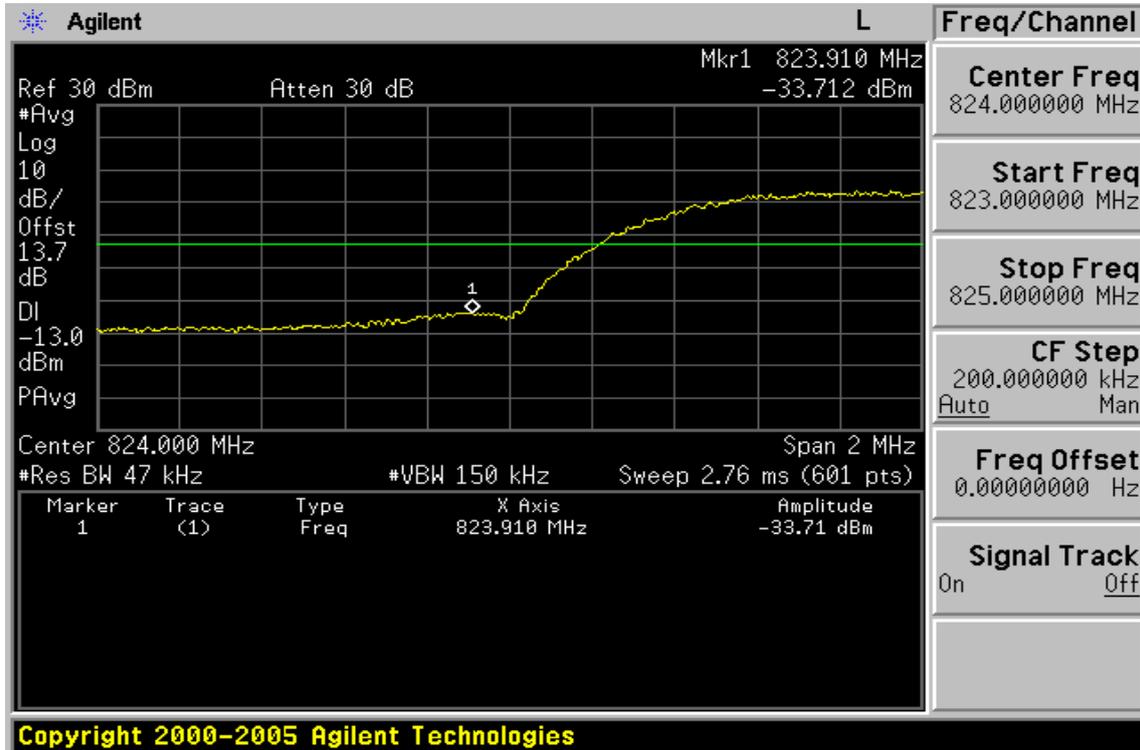
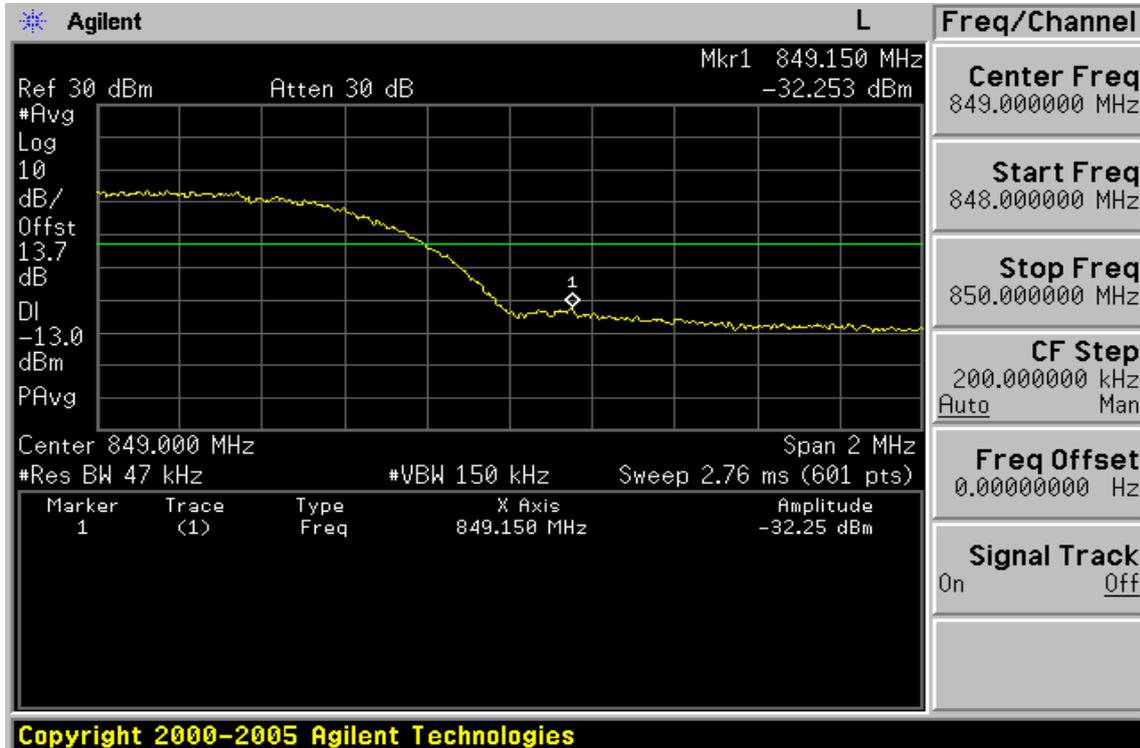


Figure 9-60: Band edge emission at antenna terminals – HSDPA V Channel Highest



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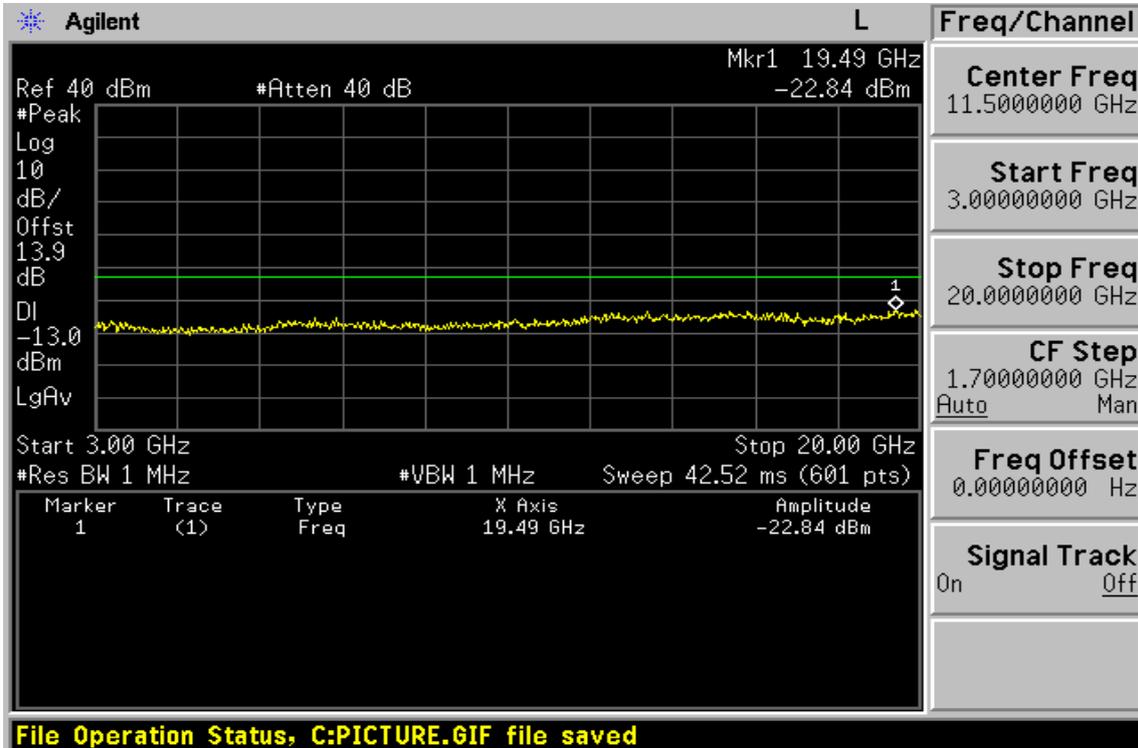
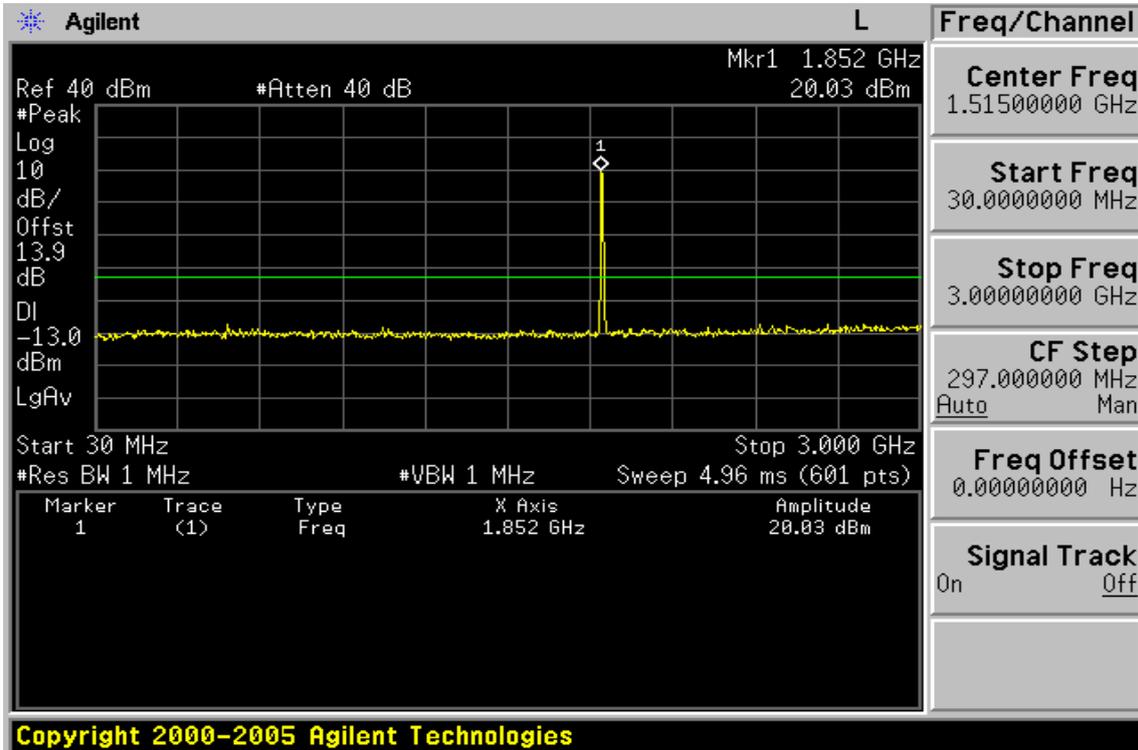
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Figure 9-61: Out of Band emission at antenna terminals – HSUPA II Channel Lowest



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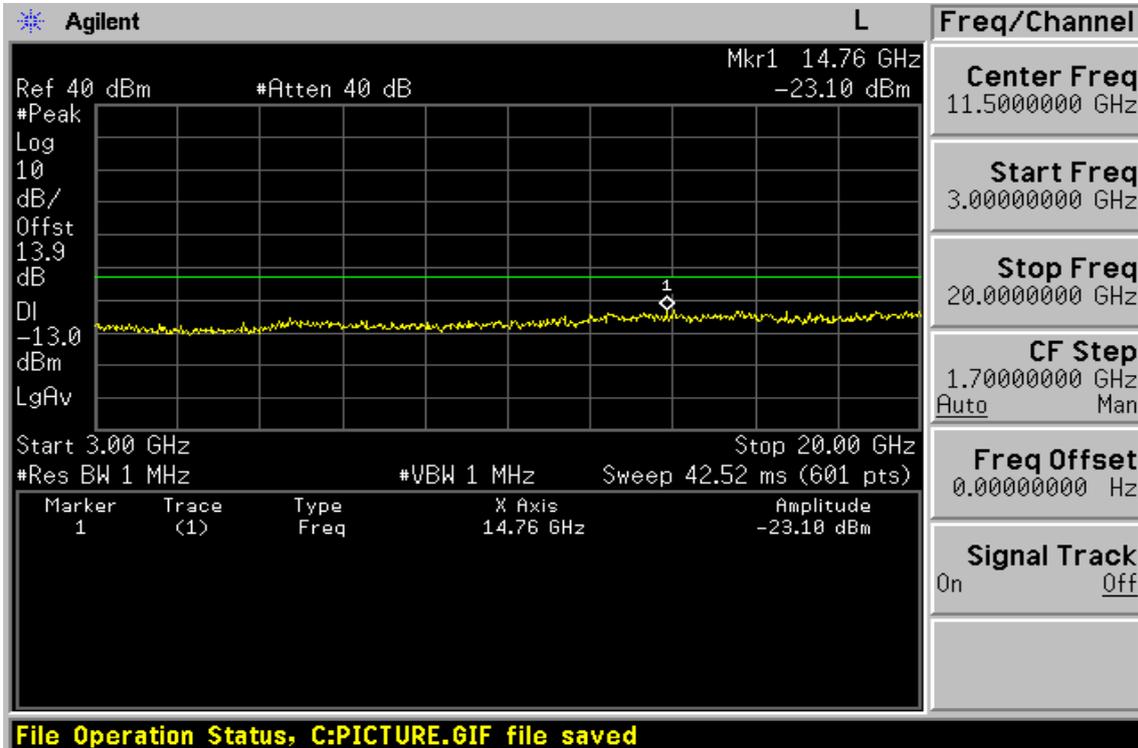
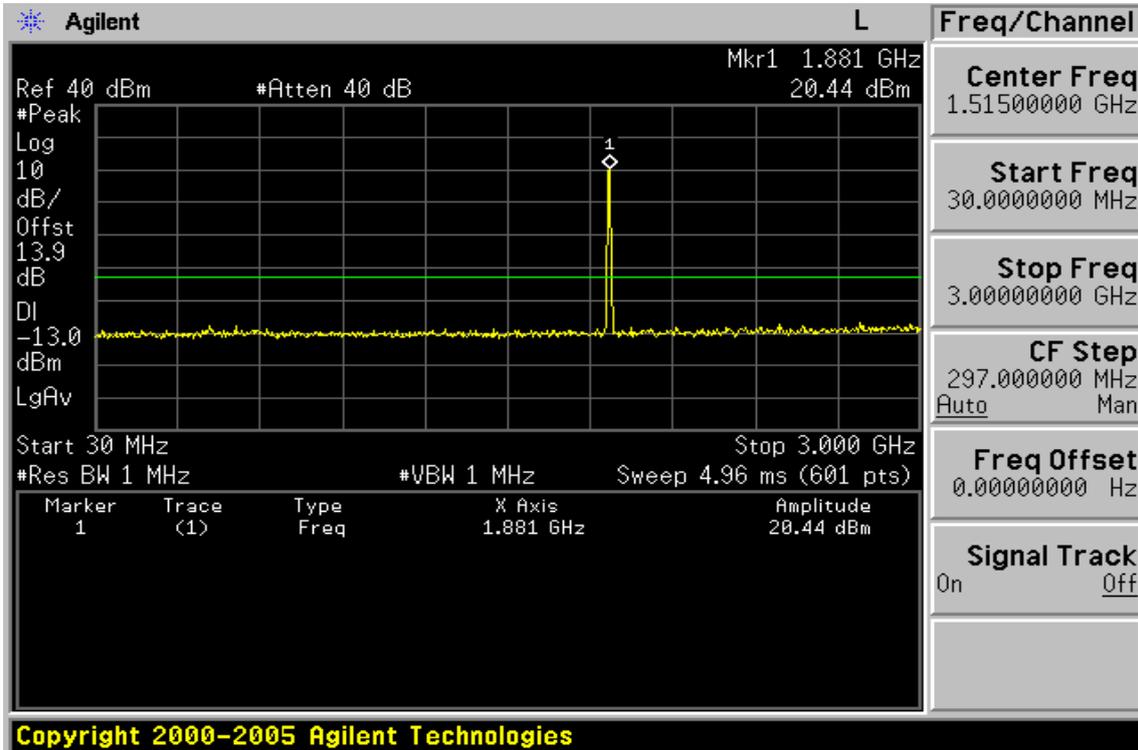
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Figure 9-62: Out of Band emission at antenna terminals – HSUPA II Channel Mid



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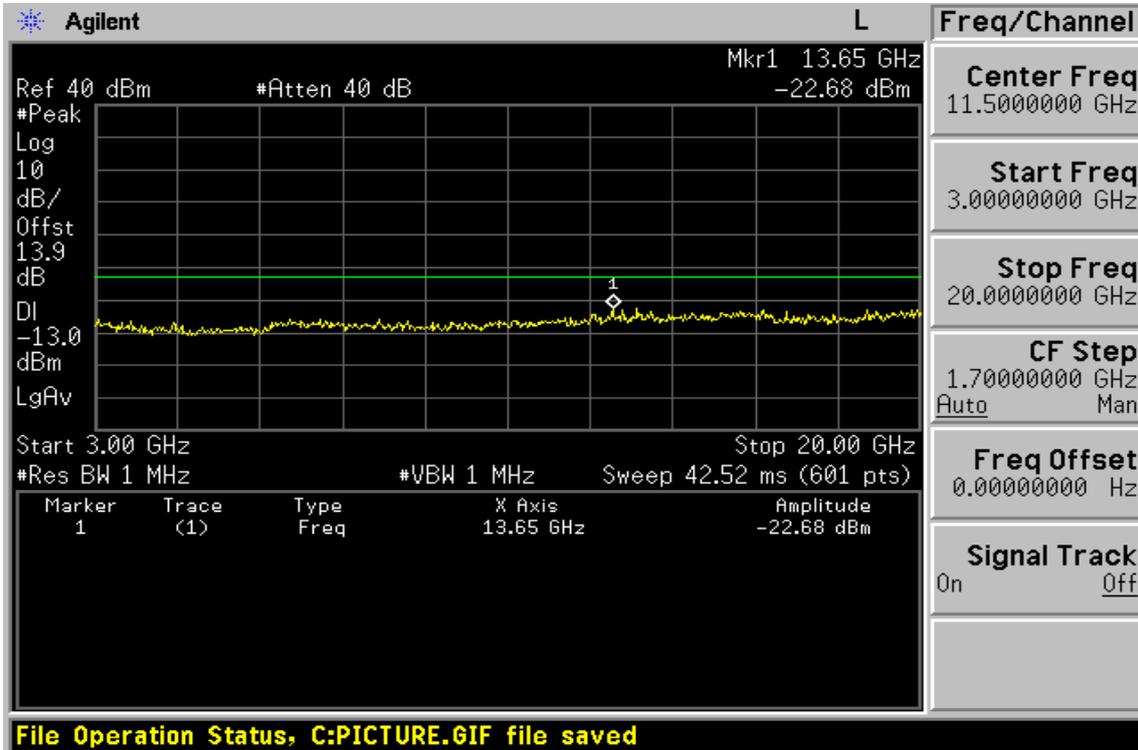
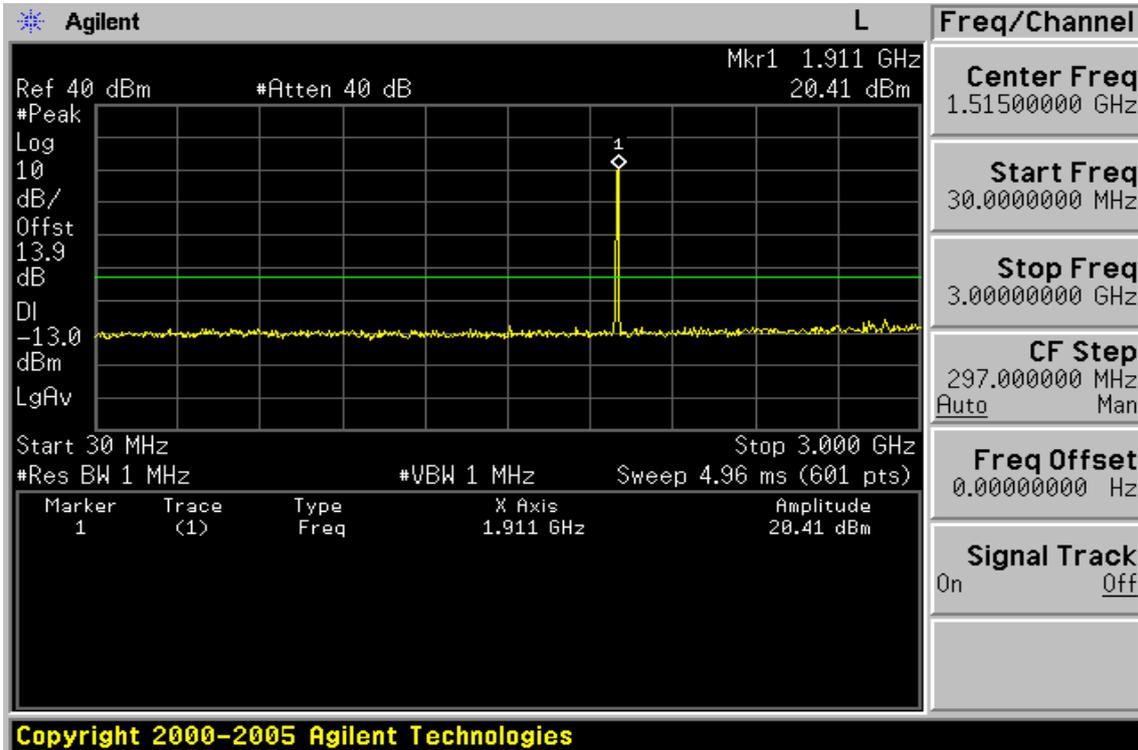
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Figure 9-63: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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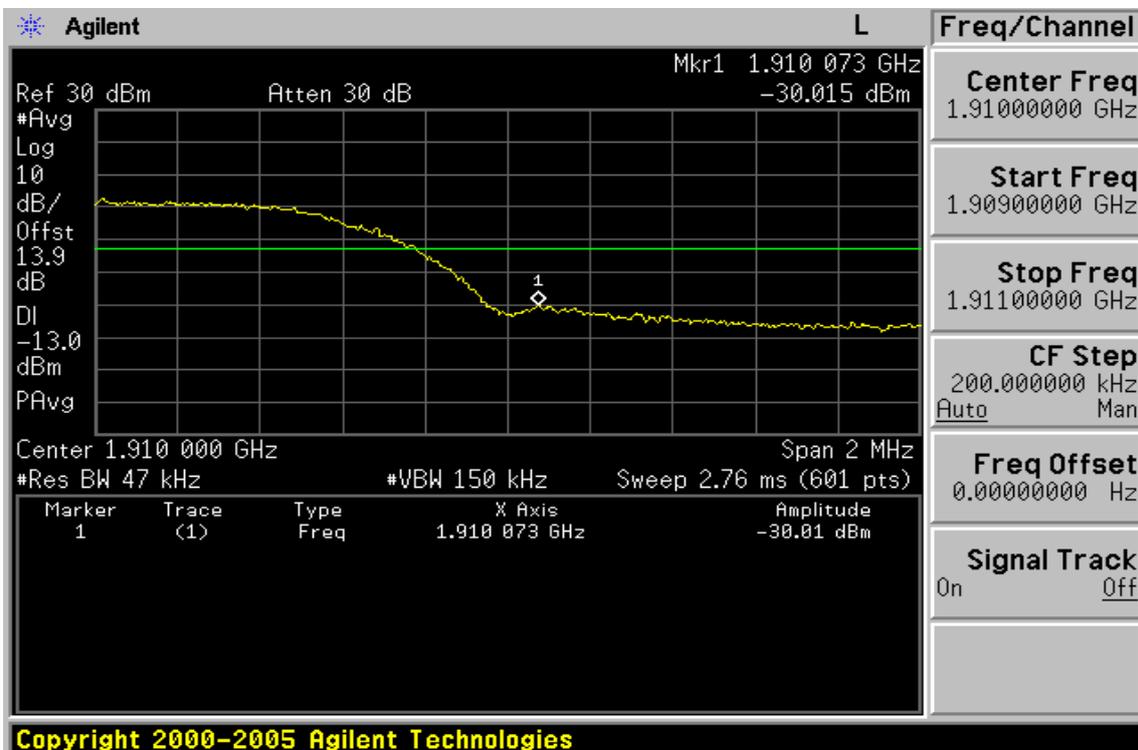
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Figure 9-64: Band edge emission at antenna terminals – HSUPA II Channel Lowest



Figure 9-65: Band edge emission at antenna terminals – HSUPA II Channel Highest



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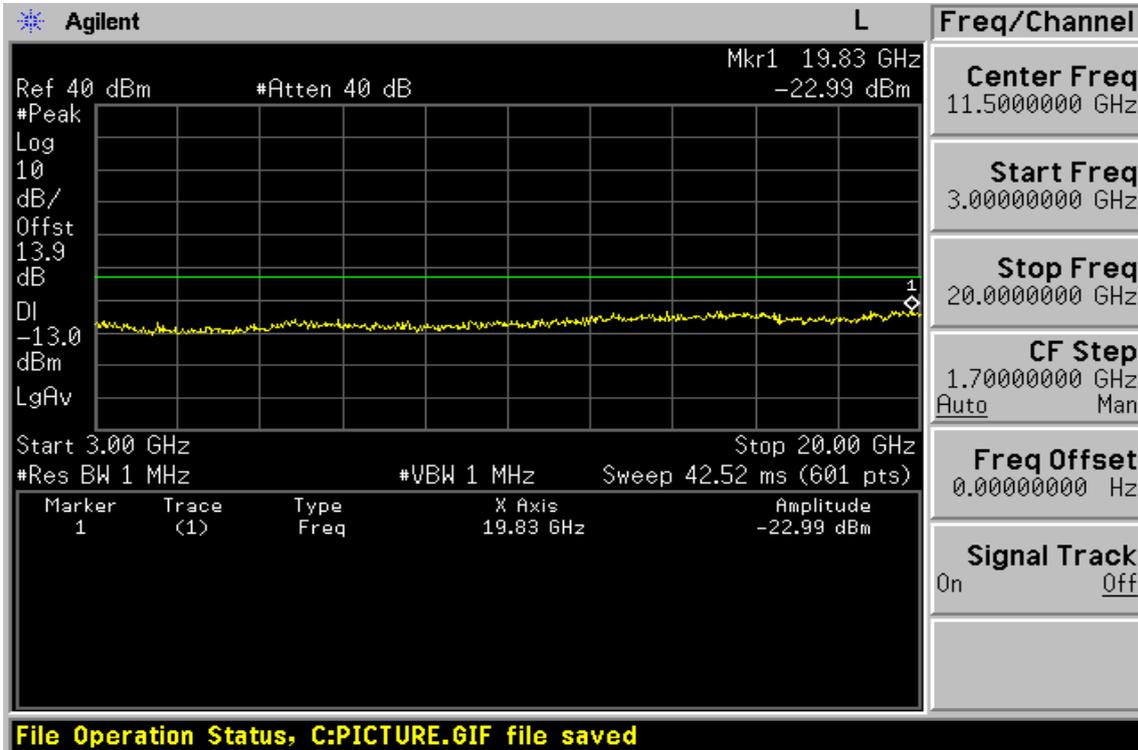
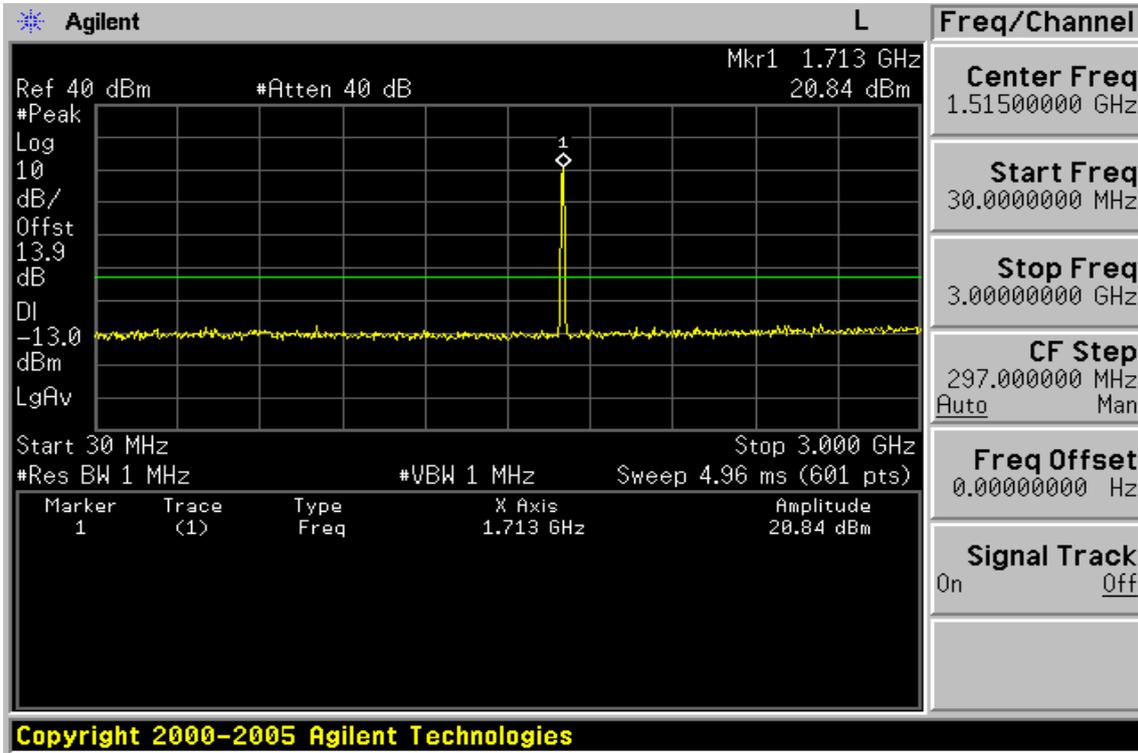
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Figure 9-66: Out of Band emission at antenna terminals –HSUPA IV Channel Lowest



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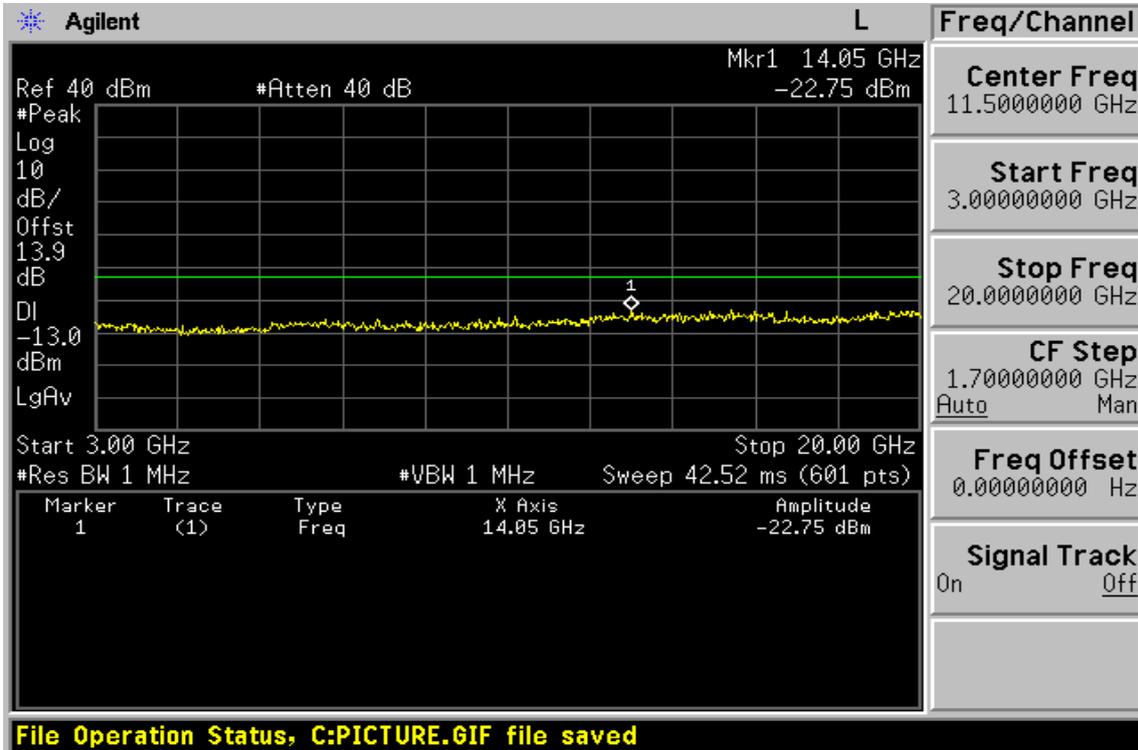
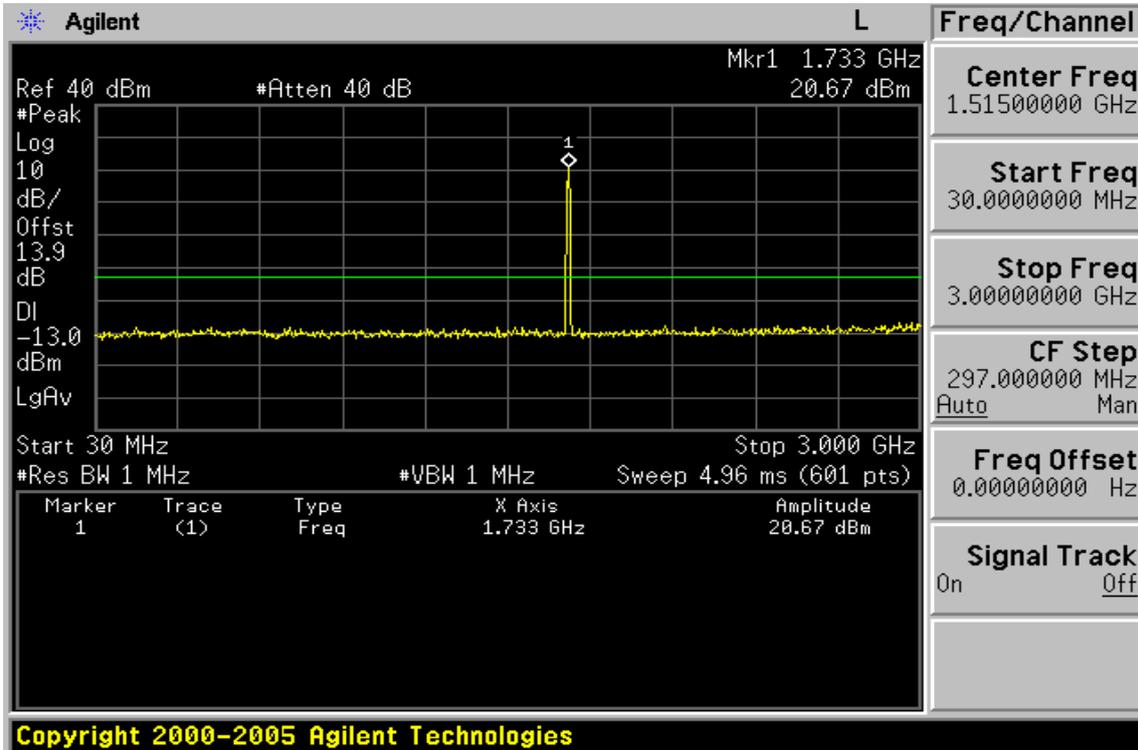
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Figure 9-67: Out of Band emission at antenna terminals –HSUPA IV Channel Mid



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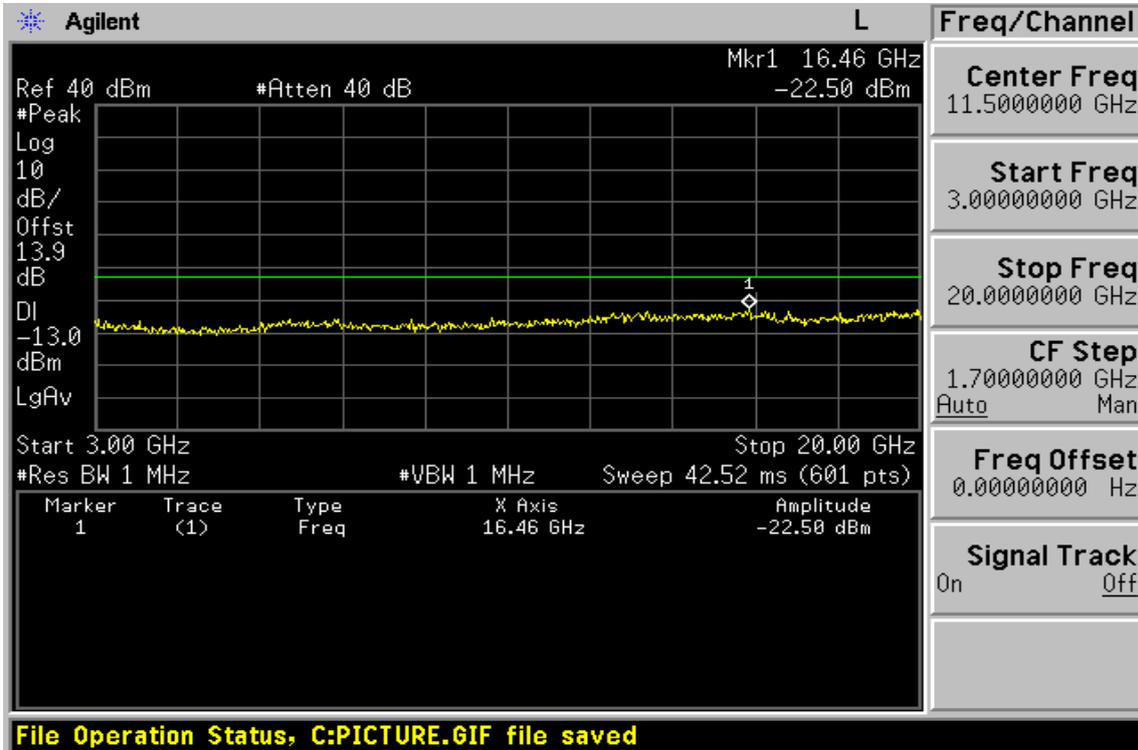
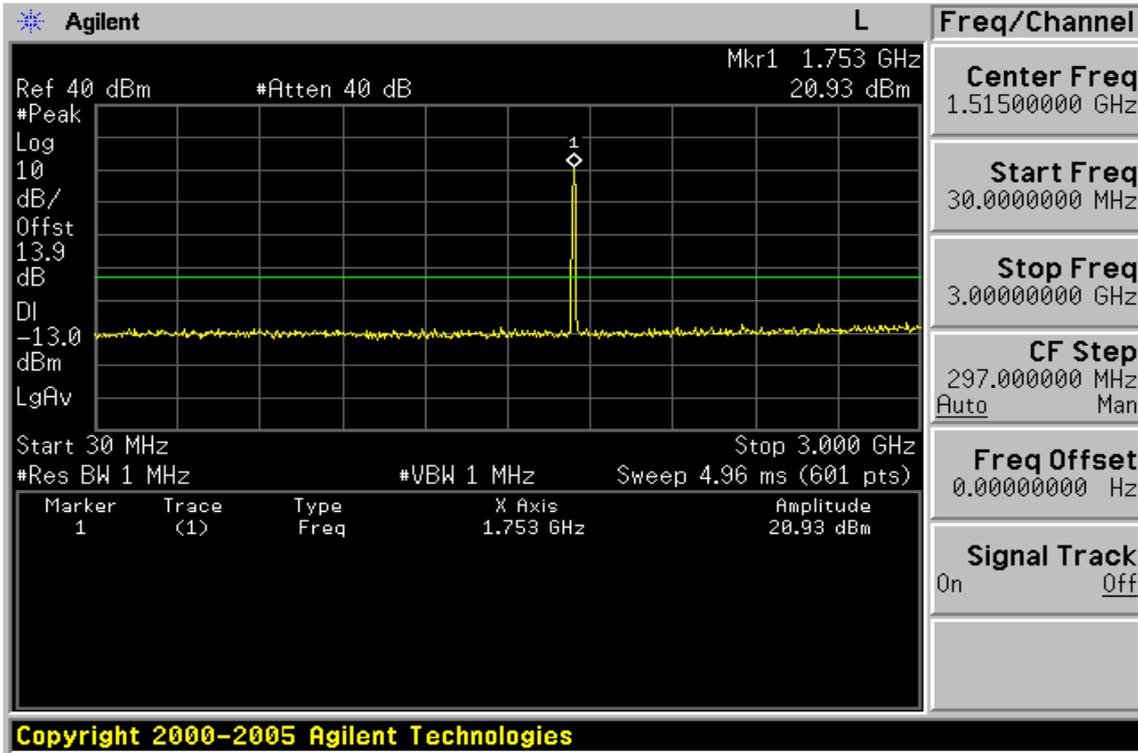
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Figure 9-68: Out of Band emission at antenna terminals –HSUPA IV Channel Highest



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Figure 9-69: Band edge emission at antenna terminals –HSUPA IV Channel Lowest

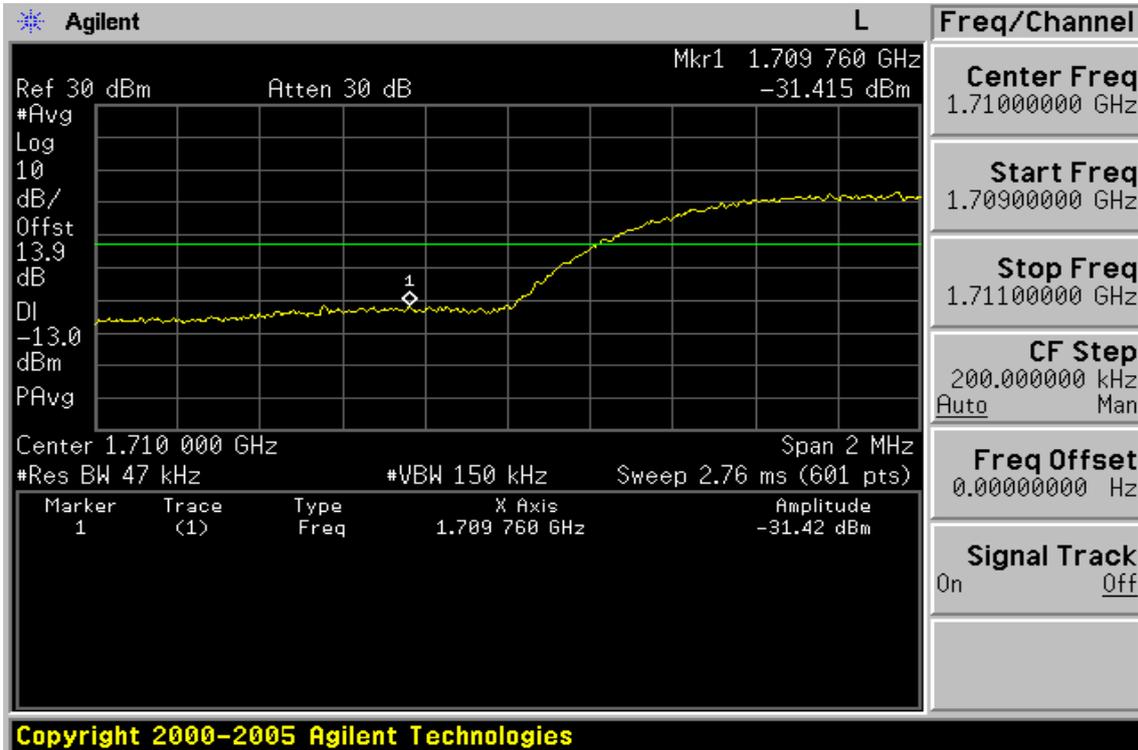
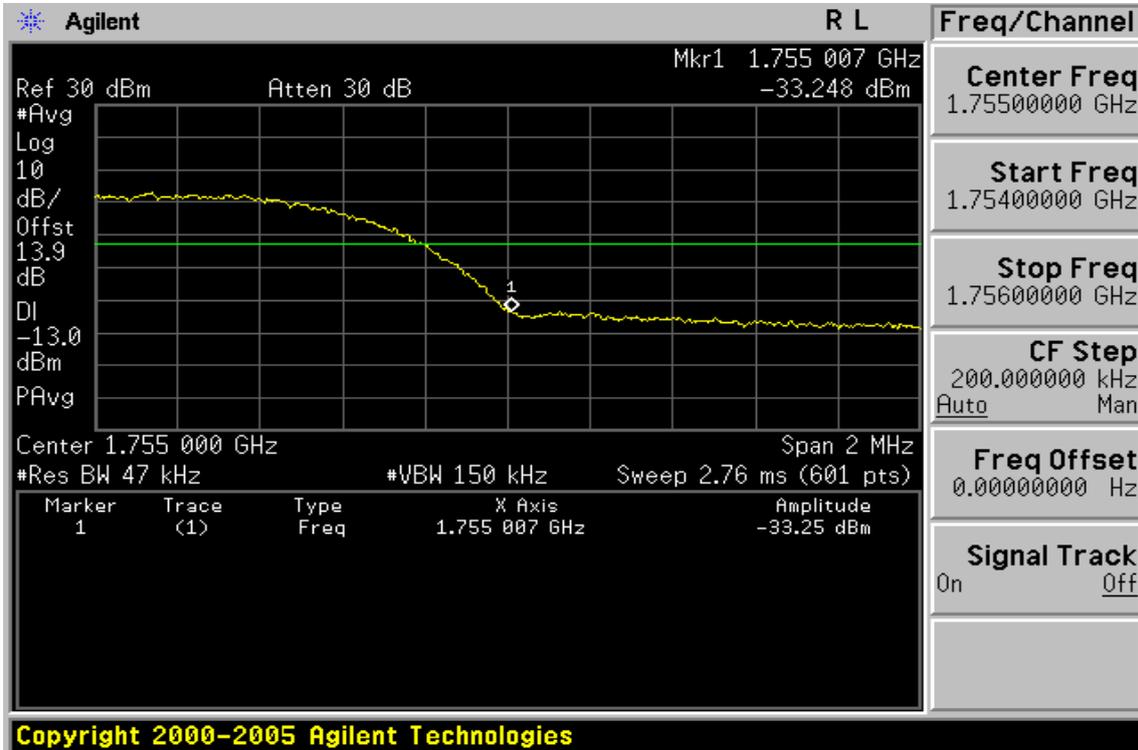


Figure 9-70: Band edge emission at antenna terminals –HSUPA IV Channel Highest



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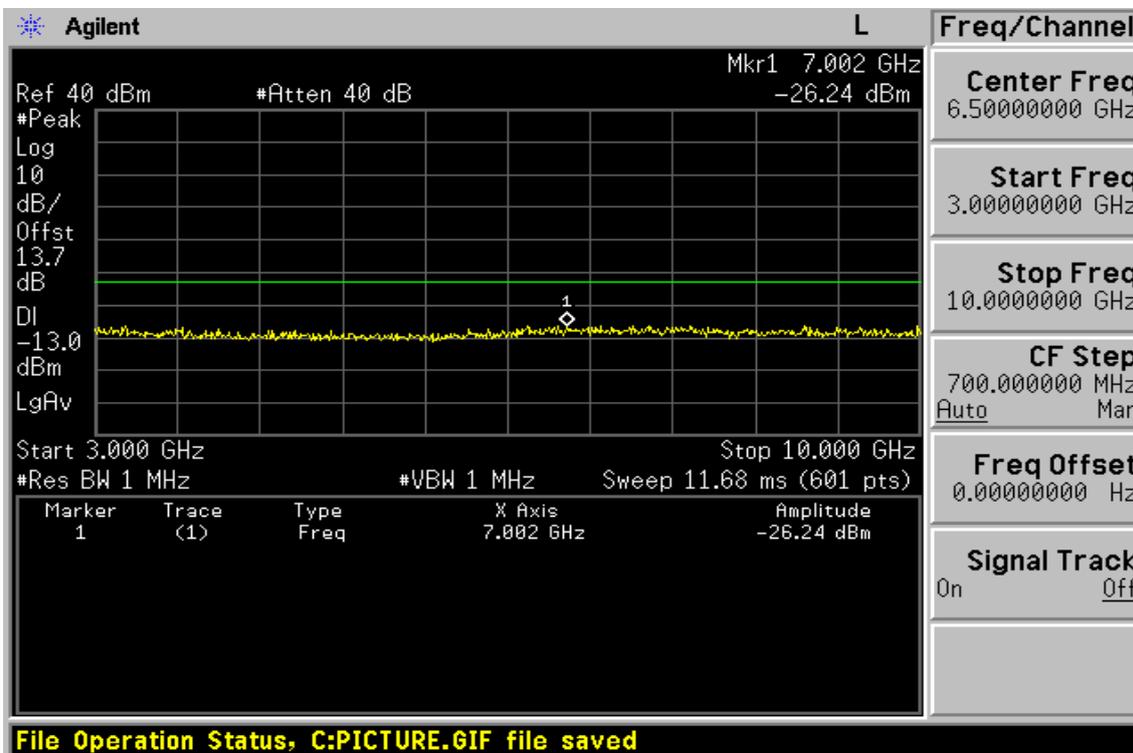
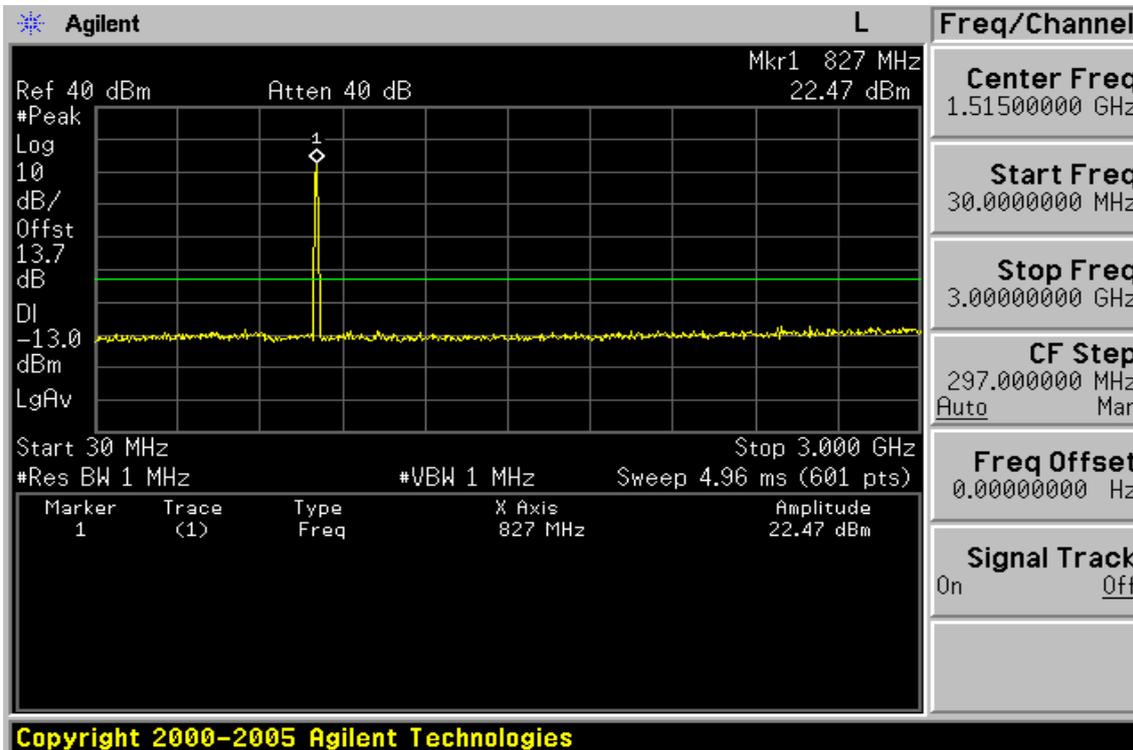
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Figure 9-71: Out of Band emission at antenna terminals – HSUPA V Channel Lowest



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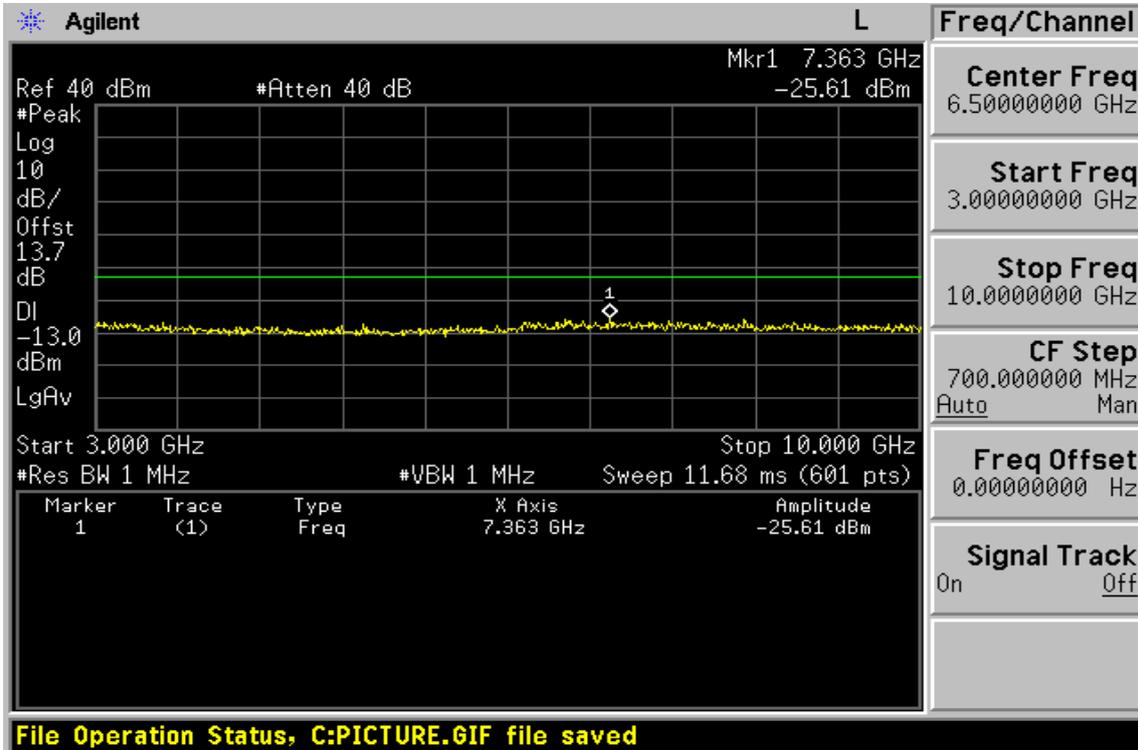
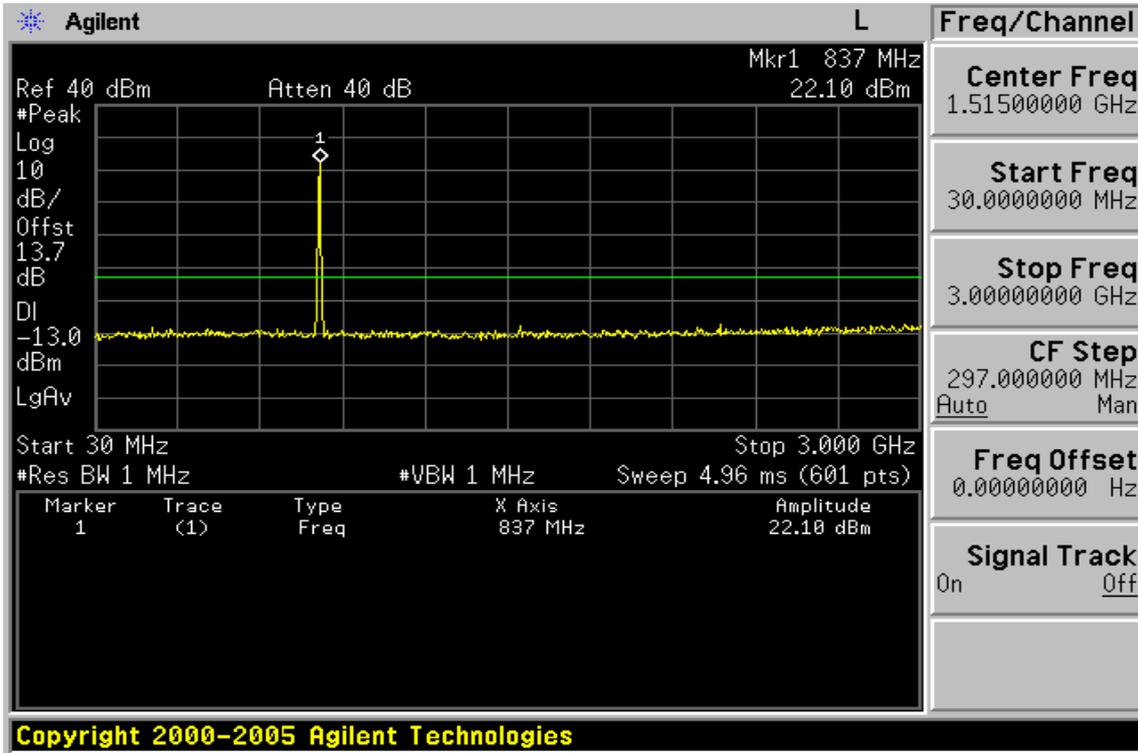
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Figure 9-72: Out of Band emission at antenna terminals – HSUPA V Channel Mid



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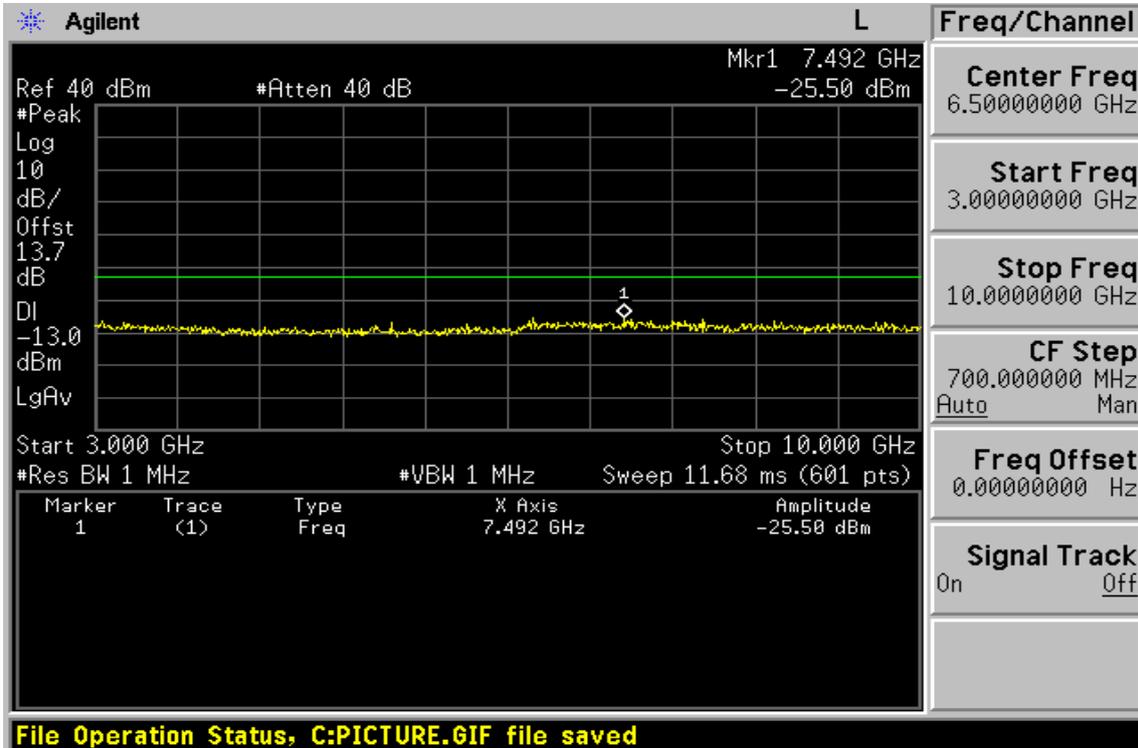
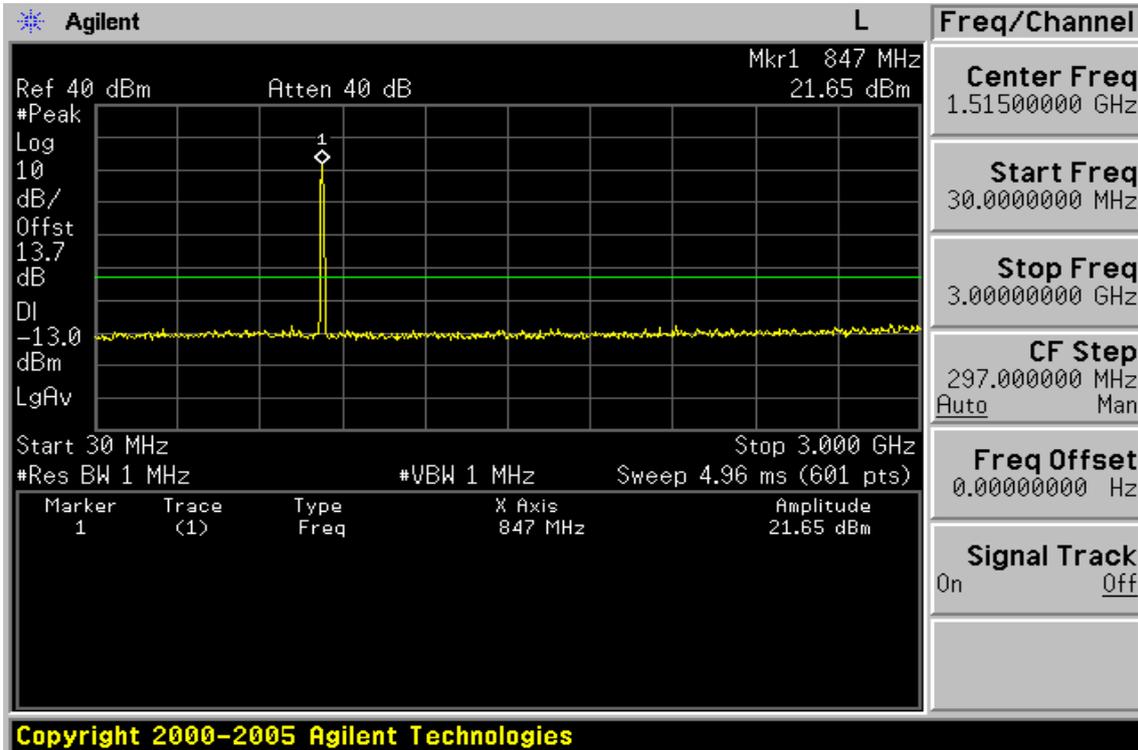
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Figure 9-73: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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Figure 9-74: Band edge emission at antenna terminals – HSUPA V Channel Lowest

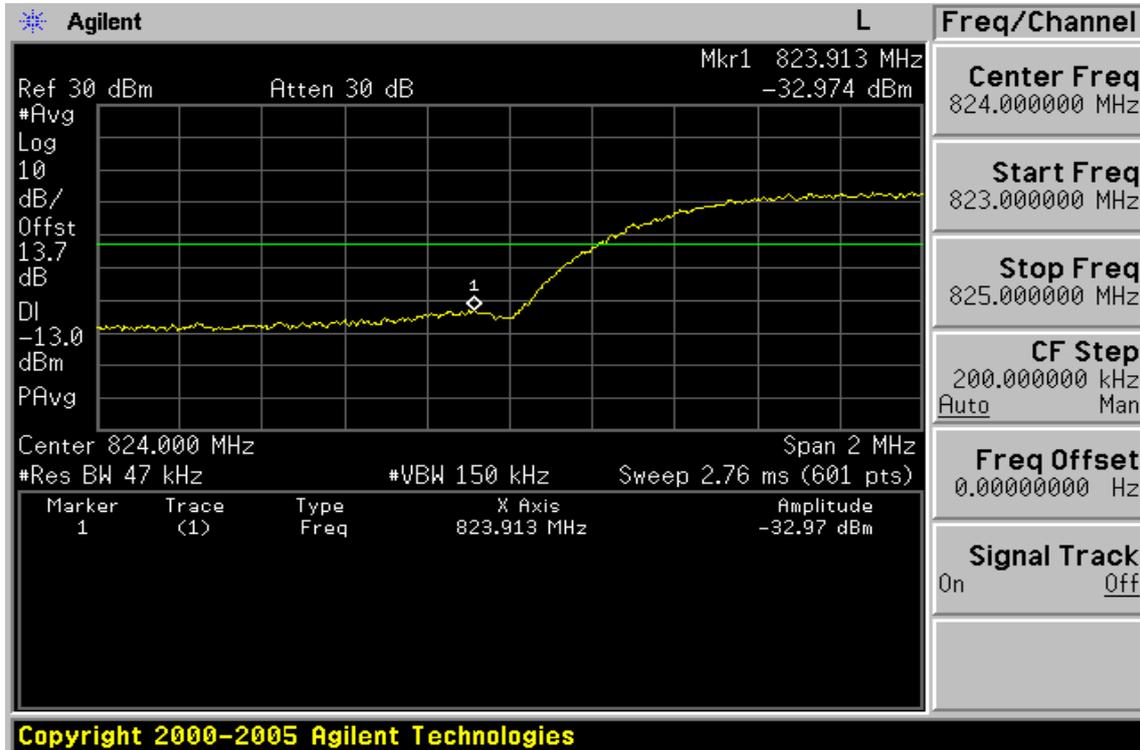
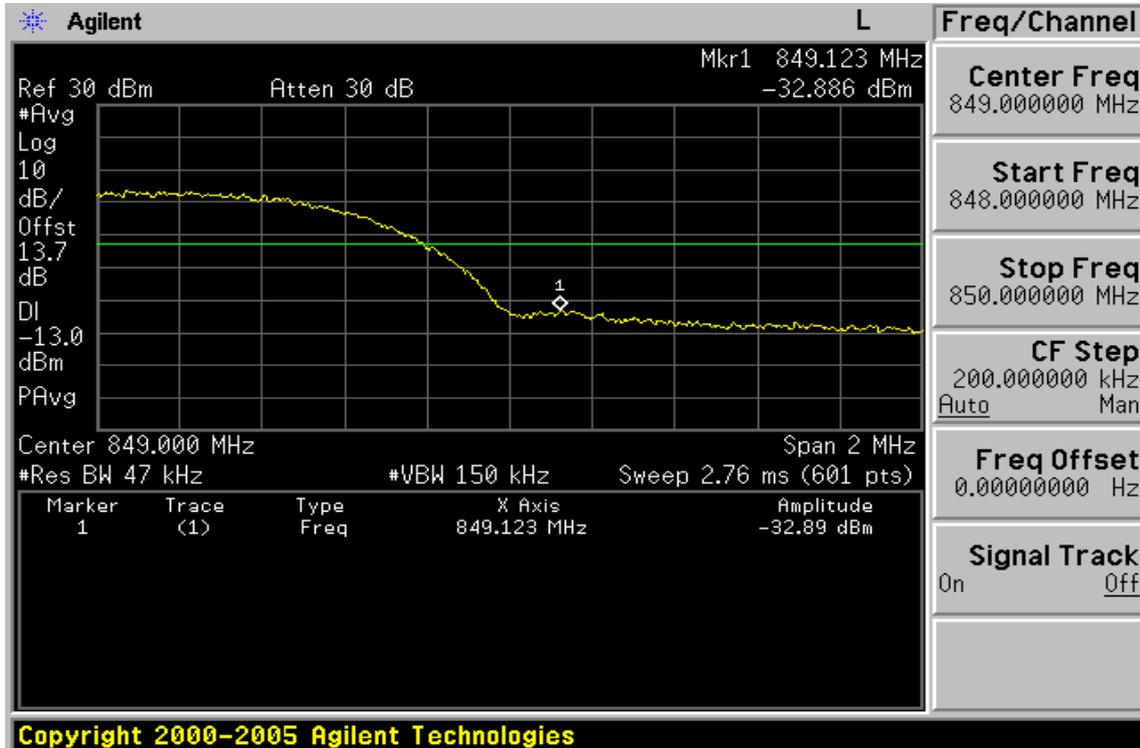


Figure 9-75: Band edge emission at antenna terminals – HSUPA V Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53 (h) 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 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii)

After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 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 (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

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.

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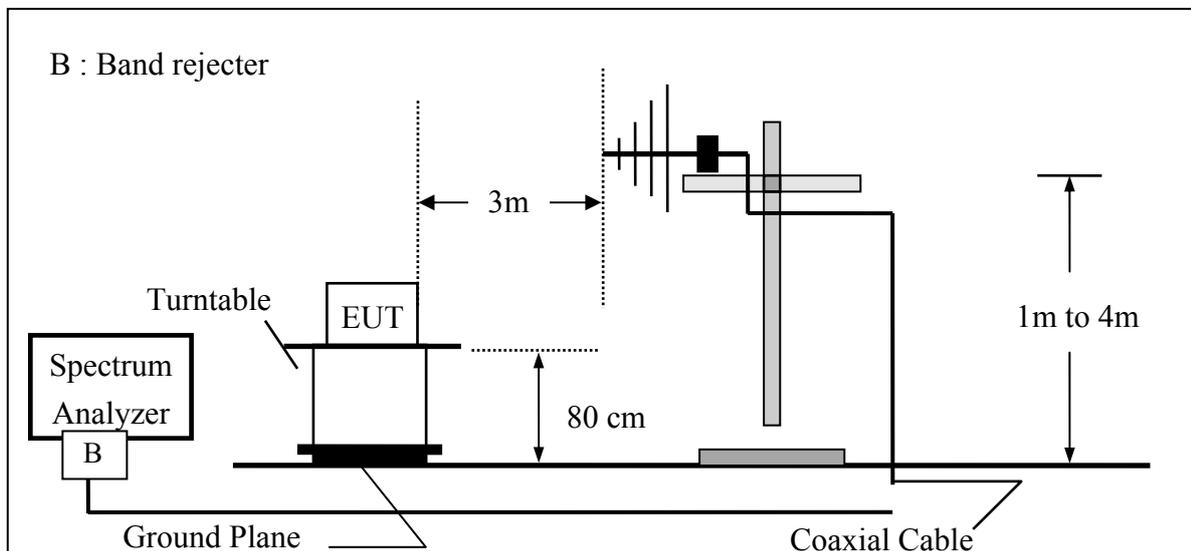
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According to RSS-139 §6.5

- (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.

10.2. EUT Setup (Block Diagram of Configuration):

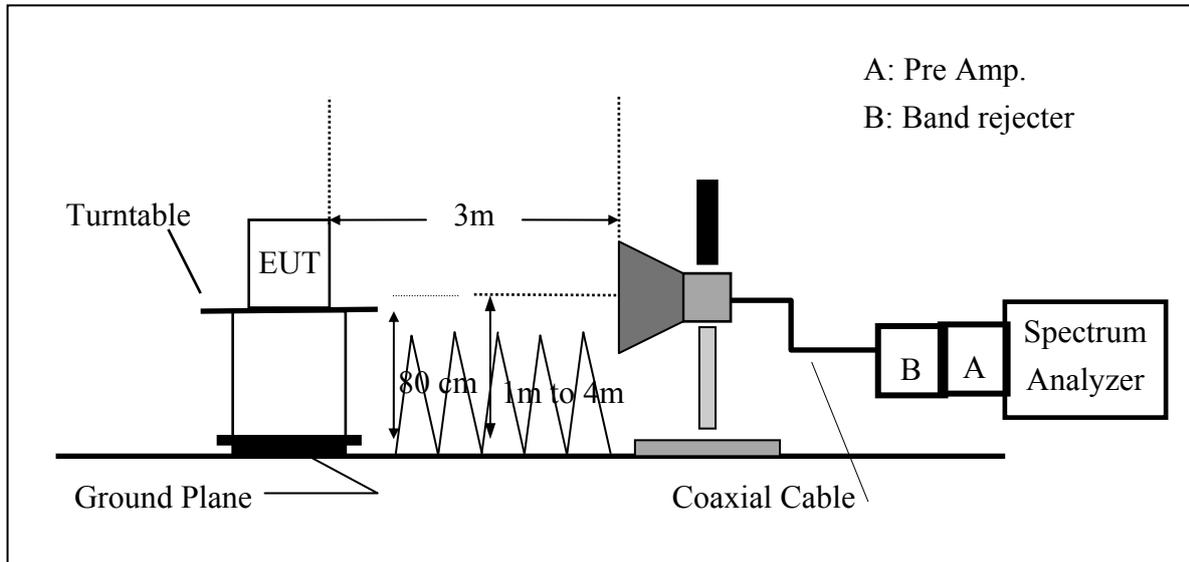
Radiated Emission Test Set-Up, Frequency Below 1000MHz



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Radiated Emission Test Set-UP Frequency Over 1 GHz



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 frequencies (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.

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

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

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to below tabular data sheets.

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band	:GPRS 850	Test Date	:2014-10-06
ARFCN	:CH 128	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
36.79	S	-60.13	-46.58	-12.74	-0.80	-13.00	-47.13
88.20	S	-53.53	-51.71	-0.65	-1.17	-13.00	-40.53
142.52	S	-60.83	-56.93	-2.54	-1.36	-13.00	-47.83
204.60	S	-61.57	-63.85	3.81	-1.53	-13.00	-48.57
385.99	S	-67.94	-69.93	4.03	-2.05	-13.00	-54.94
768.17	S	-66.56	-67.38	3.70	-2.89	-13.00	-53.56
1648.40	H	-51.68	-50.82	3.56	-4.42	-13.00	-38.68
2472.60	H	-55.58	-54.31	4.18	-5.45	-13.00	-42.58
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor..

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Operation Band	:GPRS 850	Test Date	:2014-10-06
ARFCN	:CH 128	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.00	S	-55.17	-39.99	-14.38	-0.80	-13.00	-42.17
100.81	S	-69.70	-67.37	-1.13	-1.20	-13.00	-56.70
209.45	S	-63.56	-65.83	3.82	-1.55	-13.00	-50.56
246.31	S	-69.94	-71.57	3.32	-1.69	-13.00	-56.94
583.87	S	-68.22	-69.36	3.72	-2.58	-13.00	-55.22
773.99	S	-67.47	-68.28	3.71	-2.90	-13.00	-54.47
1648.40	H	-49.27	-48.41	3.56	-4.42	-13.00	-36.27
2472.60	H	-52.44	-51.17	4.18	-5.45	-13.00	-39.44
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2014-10-06
ARFCN	:CH 190	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
36.79	S	-60.02	-46.47	-12.74	-0.80	-13.00	-47.02
89.17	S	-52.52	-50.91	-0.43	-1.18	-13.00	-39.52
148.34	S	-62.12	-58.54	-2.19	-1.38	-13.00	-49.12
224.97	S	-61.52	-63.58	3.67	-1.61	-13.00	-48.52
728.40	S	-66.90	-67.86	3.77	-2.80	-13.00	-53.90
760.41	S	-65.89	-66.71	3.69	-2.87	-13.00	-52.89
1673.20	H	-52.16	-51.20	3.49	-4.45	-13.00	-39.16
2509.80	H	-54.87	-53.66	4.28	-5.49	-13.00	-41.87
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2014-10-06
ARFCN	:CH 190	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.00	S	-55.15	-39.97	-14.38	-0.80	-13.00	-42.15
209.45	S	-63.60	-65.87	3.82	-1.55	-13.00	-50.60
248.25	S	-69.56	-71.18	3.33	-1.70	-13.00	-56.56
419.94	S	-71.49	-73.31	3.95	-2.13	-13.00	-58.49
583.87	S	-66.17	-67.31	3.72	-2.58	-13.00	-53.17
722.58	S	-69.81	-70.80	3.79	-2.79	-13.00	-56.81
1673.20	H	-48.69	-47.74	3.49	-4.45	-13.00	-35.69
2509.80	H	-56.41	-55.19	4.28	-5.49	-13.00	-43.41
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:GPRS 850	Test Date	:2014-10-06
ARFCN	:CH 251	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
37.76	S	-60.29	-46.96	-12.54	-0.80	-13.00	-47.29
89.17	S	-52.71	-51.10	-0.43	-1.18	-13.00	-39.71
142.52	S	-58.12	-54.22	-2.54	-1.36	-13.00	-45.12
206.54	S	-60.80	-63.08	3.82	-1.54	-13.00	-47.80
418.97	S	-66.08	-67.90	3.95	-2.13	-13.00	-53.08
682.81	S	-65.32	-66.50	3.90	-2.72	-13.00	-52.32
1697.60	H	-49.85	-48.81	3.43	-4.48	-13.00	-36.85
2546.40	H	-56.94	-55.77	4.37	-5.54	-13.00	-43.94
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2014-10-06
ARFCN	:CH 251	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.00	S	-54.84	-39.66	-14.38	-0.80	-13.00	-41.84
105.66	S	-69.29	-66.31	-1.75	-1.22	-13.00	-56.29
211.39	S	-63.08	-65.31	3.78	-1.56	-13.00	-50.08
250.19	S	-69.57	-71.20	3.34	-1.71	-13.00	-56.57
583.87	S	-68.46	-69.60	3.72	-2.58	-13.00	-55.46
809.88	S	-68.42	-69.18	3.75	-2.98	-13.00	-55.42
1697.60	H	-45.87	-44.83	3.43	-4.48	-13.00	-32.87
2546.40	H	-56.60	-55.43	4.37	-5.54	-13.00	-43.60
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band	:GPRS 1900	Test Date	:2014-10-06
ARFCN	:CH 512	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
37.76	S	-54.51	-43.32	-10.39	-0.80	-13.00	-41.51
115.36	S	-60.97	-59.54	-0.17	-1.26	-13.00	-47.97
165.80	S	-63.24	-63.28	1.46	-1.43	-13.00	-50.24
235.64	S	-63.29	-67.29	5.66	-1.66	-13.00	-50.29
667.29	S	-61.03	-64.40	6.07	-2.70	-13.00	-48.03
954.41	S	-62.04	-63.92	5.22	-3.34	-13.00	-49.04
3700.40	H	-49.97	-52.30	9.13	-6.80	-13.00	-36.97
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

$EIRP (dBm) = SG \text{ Level}(dBm) + Antenna \text{ Gain}(dBi) + Cable \text{ Loss}(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-10-06
ARFCN	:CH 512	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
128.94	S	-58.71	-57.29	-0.10	-1.31	-13.00	-45.71
200.72	S	-58.12	-62.55	5.95	-1.51	-13.00	-45.12
288.99	S	-59.67	-63.34	5.50	-1.84	-13.00	-46.67
624.61	S	-59.05	-62.34	5.94	-2.65	-13.00	-46.05
666.32	S	-60.50	-63.86	6.07	-2.70	-13.00	-47.50
955.38	S	-61.07	-62.89	5.17	-3.35	-13.00	-48.07
3700.40	H	-55.00	-57.32	9.13	-6.80	-13.00	-42.00
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-10-06
ARFCN	:CH 661	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
37.76	S	-54.83	-43.64	-10.39	-0.80	-13.00	-41.83
116.33	S	-60.68	-59.24	-0.17	-1.27	-13.00	-47.68
164.83	S	-63.13	-63.13	1.42	-1.42	-13.00	-50.13
235.64	S	-64.02	-68.03	5.66	-1.66	-13.00	-51.02
288.02	S	-66.51	-70.20	5.52	-1.83	-13.00	-53.51
667.29	S	-61.87	-65.24	6.07	-2.70	-13.00	-48.87
3760.00	H	-51.58	-53.89	9.16	-6.85	-13.00	-38.58
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-10-06
ARFCN	:CH 661	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
126.03	S	-58.22	-56.79	-0.13	-1.30	-13.00	-45.22
208.48	S	-58.02	-62.44	5.97	-1.55	-13.00	-45.02
286.08	S	-59.69	-63.42	5.55	-1.83	-13.00	-46.69
624.61	S	-58.69	-61.98	5.94	-2.65	-13.00	-45.69
667.29	S	-60.56	-63.93	6.07	-2.70	-13.00	-47.56
955.38	S	-63.05	-64.87	5.17	-3.35	-13.00	-50.05
3760.00	H	-55.73	-58.04	9.16	-6.85	-13.00	-42.73
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-10-06
ARFCN	:CH 810	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
37.76	S	-54.83	-43.65	-10.39	-0.80	-13.00	-41.83
117.30	S	-60.86	-59.41	-0.17	-1.27	-13.00	-47.86
162.89	S	-61.96	-61.88	1.34	-1.42	-13.00	-48.96
236.61	S	-64.31	-68.26	5.61	-1.66	-13.00	-51.31
286.08	S	-66.35	-70.08	5.55	-1.83	-13.00	-53.35
667.29	S	-61.50	-64.86	6.07	-2.70	-13.00	-48.50
3819.60	H	-49.63	-51.92	9.20	-6.90	-13.00	-36.63
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-10-06
ARFCN	:CH 810	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
125.06	S	-58.42	-56.98	-0.14	-1.30	-13.00	-45.42
192.96	S	-58.06	-61.86	5.29	-1.49	-13.00	-45.06
288.99	S	-59.49	-63.15	5.50	-1.84	-13.00	-46.49
624.61	S	-57.42	-60.71	5.94	-2.65	-13.00	-44.42
676.02	S	-60.17	-63.52	6.06	-2.71	-13.00	-47.17
932.10	S	-62.57	-64.83	5.57	-3.31	-13.00	-49.57
3819.60	H	-55.23	-57.52	9.20	-6.90	-13.00	-42.23
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Band	:WCDMA B2	Test Date	:2014-10-06
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
38.73	S	-54.59	-43.60	-10.18	-0.80	-13.00	-41.59
115.36	S	-60.72	-59.29	-0.17	-1.26	-13.00	-47.72
166.77	S	-63.30	-63.38	1.50	-1.43	-13.00	-50.30
235.64	S	-64.93	-68.94	5.66	-1.66	-13.00	-51.93
290.93	S	-65.40	-69.07	5.52	-1.84	-13.00	-52.40
667.29	S	-61.11	-64.47	6.07	-2.70	-13.00	-48.11
3704.80	H	-48.93	-51.25	9.13	-6.80	-13.00	-35.93
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-10-06
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
129.91	S	-58.44	-57.03	-0.09	-1.32	-13.00	-45.44
192.96	S	-57.61	-61.41	5.29	-1.49	-13.00	-44.61
285.11	S	-59.93	-63.68	5.57	-1.82	-13.00	-46.93
572.23	S	-63.28	-66.66	5.93	-2.55	-13.00	-50.28
624.61	S	-59.80	-63.09	5.94	-2.65	-13.00	-46.80
666.32	S	-60.40	-63.77	6.07	-2.70	-13.00	-47.40
3704.80	H	-49.50	-51.82	9.13	-6.80	-13.00	-36.50
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-10-06
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
37.76	S	-54.66	-43.47	-10.39	-0.80	-13.00	-41.66
117.30	S	-60.91	-59.46	-0.17	-1.27	-13.00	-47.91
162.89	S	-62.78	-62.70	1.34	-1.42	-13.00	-49.78
234.67	S	-64.12	-68.18	5.71	-1.65	-13.00	-51.12
293.84	S	-66.42	-70.20	5.63	-1.85	-13.00	-53.42
667.29	S	-61.99	-65.35	6.07	-2.70	-13.00	-48.99
3760.00	H	-50.07	-52.38	9.16	-6.85	-13.00	-37.07
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-10-06
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
128.94	S	-59.32	-57.91	-0.10	-1.31	-13.00	-46.32
194.90	S	-58.40	-62.37	5.47	-1.50	-13.00	-45.40
283.17	S	-59.45	-63.24	5.61	-1.82	-13.00	-46.45
624.61	S	-60.03	-63.32	5.94	-2.65	-13.00	-47.03
666.32	S	-61.52	-64.89	6.07	-2.70	-13.00	-48.52
955.38	S	-61.82	-63.64	5.17	-3.35	-13.00	-48.82
3760.00	H	-51.56	-53.87	9.16	-6.85	-13.00	-38.56
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-10-06
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
38.73	S	-54.99	-44.00	-10.18	-0.80	-13.00	-41.99
115.36	S	-61.08	-59.65	-0.17	-1.26	-13.00	-48.08
163.86	S	-62.70	-62.66	1.38	-1.42	-13.00	-49.70
234.67	S	-64.23	-68.29	5.71	-1.65	-13.00	-51.23
285.11	S	-66.38	-70.13	5.57	-1.82	-13.00	-53.38
667.29	S	-61.26	-64.63	6.07	-2.70	-13.00	-48.26
3815.20	H	-49.82	-52.11	9.19	-6.90	-13.00	-36.82
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-10-06
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
126.03	S	-58.54	-57.11	-0.13	-1.30	-13.00	-45.54
211.39	S	-58.31	-62.69	5.93	-1.56	-13.00	-45.31
279.29	S	-59.41	-63.27	5.66	-1.81	-13.00	-46.41
624.61	S	-57.97	-61.26	5.94	-2.65	-13.00	-44.97
666.32	S	-60.87	-64.24	6.07	-2.70	-13.00	-47.87
955.38	S	-62.37	-64.19	5.17	-3.35	-13.00	-49.37
3815.20	H	-52.28	-54.58	9.19	-6.90	-13.00	-39.28
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Band	:HSDPA B4	Test Date	:2014-10-06
ARFCN	:CH 1312	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-53.79	-42.61	-10.39	-0.80	-13.00	-40.79
163.86	S	-62.79	-62.75	1.38	-1.42	-13.00	-49.79
290.93	S	-67.10	-70.78	5.52	-1.84	-13.00	-54.10
520.82	S	-68.71	-72.38	6.08	-2.41	-13.00	-55.71
666.32	S	-60.36	-63.73	6.07	-2.70	-13.00	-47.36
901.06	S	-63.17	-65.62	5.71	-3.26	-13.00	-50.17
3424.80	H	-50.69	-52.95	8.80	-6.55	-13.00	-37.69
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-10-06
ARFCN	:CH 1312	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
124.09	S	-58.76	-57.32	-0.15	-1.30	-13.00	-45.76
199.75	S	-58.60	-63.02	5.93	-1.51	-13.00	-45.60
292.87	S	-60.40	-64.14	5.59	-1.85	-13.00	-47.40
531.49	S	-68.75	-72.37	6.06	-2.44	-13.00	-55.75
666.32	S	-60.03	-63.39	6.07	-2.70	-13.00	-47.03
955.38	S	-62.13	-63.95	5.17	-3.35	-13.00	-49.13
3424.80	H	-45.84	-48.09	8.80	-6.55	-13.00	-32.84
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-10-06
ARFCN	:CH 1413	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-54.64	-43.45	-10.39	-0.80	-13.00	-41.64
161.92	S	-63.06	-62.94	1.30	-1.42	-13.00	-50.06
295.78	S	-66.87	-70.72	5.71	-1.86	-13.00	-53.87
513.06	S	-69.15	-72.86	6.09	-2.39	-13.00	-56.15
666.32	S	-62.25	-65.62	6.07	-2.70	-13.00	-49.25
952.47	S	-63.48	-65.48	5.34	-3.34	-13.00	-50.48
3465.20	H	-51.05	-53.37	8.91	-6.59	-13.00	-38.05
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-10-06
ARFCN	:CH 1413	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
126.03	S	-58.72	-57.29	-0.13	-1.30	-13.00	-45.72
192.96	S	-58.49	-62.29	5.29	-1.49	-13.00	-45.49
291.90	S	-60.20	-63.91	5.55	-1.85	-13.00	-47.20
558.65	S	-69.11	-72.58	5.99	-2.51	-13.00	-56.11
667.29	S	-61.40	-64.76	6.07	-2.70	-13.00	-48.40
955.38	S	-62.62	-64.44	5.17	-3.35	-13.00	-49.62
3465.20	H	-46.64	-48.96	8.91	-6.59	-13.00	-33.64
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-10-06
ARFCN	:CH 1513	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-54.62	-43.43	-10.39	-0.80	-13.00	-41.62
163.86	S	-62.47	-62.43	1.38	-1.42	-13.00	-49.47
292.87	S	-66.20	-69.94	5.59	-1.85	-13.00	-53.20
531.49	S	-69.26	-72.88	6.06	-2.44	-13.00	-56.26
667.29	S	-61.13	-64.49	6.07	-2.70	-13.00	-48.13
955.38	S	-61.40	-63.23	5.17	-3.35	-13.00	-48.40
3505.20	H	-46.05	-48.43	9.00	-6.62	-13.00	-33.05
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-10-06
ARFCN	:CH 1513	Temp./Humi.	:23 deg_C/61 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
127.97	S	-57.89	-56.47	-0.11	-1.31	-13.00	-44.89
191.99	S	-58.25	-61.96	5.20	-1.49	-13.00	-45.25
290.93	S	-60.41	-64.08	5.52	-1.84	-13.00	-47.41
516.94	S	-69.20	-72.89	6.08	-2.40	-13.00	-56.20
667.29	S	-61.38	-64.74	6.07	-2.70	-13.00	-48.38
841.89	S	-61.85	-64.68	5.91	-3.08	-13.00	-48.85
3505.20	H	-42.60	-44.98	9.00	-6.62	-13.00	-29.60
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Band	:WCDMA B5	Test Date	:2014-10-06
ARFCN	:CH 4132	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
52.31	S	-59.91	-48.61	-10.30	-1.00	-13.00	-46.91
88.20	S	-52.50	-50.68	-0.65	-1.17	-13.00	-39.50
165.80	S	-60.28	-58.17	-0.69	-1.43	-13.00	-47.28
206.54	S	-60.90	-63.18	3.82	-1.54	-13.00	-47.90
368.53	S	-69.01	-71.05	4.05	-2.01	-13.00	-56.01
768.17	S	-65.11	-65.93	3.70	-2.89	-13.00	-52.11
1652.80	H	-54.91	-54.03	3.55	-4.42	-13.00	-41.91
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-10-06
ARFCN	:CH 4132	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.00	S	-54.34	-39.16	-14.38	-0.80	-13.00	-41.34
106.63	S	-68.89	-65.78	-1.88	-1.23	-13.00	-55.89
208.48	S	-63.65	-65.92	3.82	-1.55	-13.00	-50.65
246.31	S	-69.84	-71.46	3.32	-1.69	-13.00	-56.84
454.86	S	-71.50	-73.13	3.86	-2.23	-13.00	-58.50
583.87	S	-67.65	-68.79	3.72	-2.58	-13.00	-54.65
1652.80	H	-54.39	-53.52	3.55	-4.42	-13.00	-41.39
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-10-06
ARFCN	:CH 4183	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
36.79	S	-60.29	-46.74	-12.74	-0.80	-13.00	-47.29
89.17	S	-52.61	-51.00	-0.43	-1.18	-13.00	-39.61
157.07	S	-60.04	-57.37	-1.27	-1.40	-13.00	-47.04
223.03	S	-61.32	-63.33	3.62	-1.61	-13.00	-48.32
413.15	S	-67.18	-69.04	3.97	-2.11	-13.00	-54.18
459.71	S	-69.45	-71.07	3.87	-2.24	-13.00	-56.45
1673.20	H	-57.50	-56.54	3.49	-4.45	-13.00	-44.50
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
 "---" : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-10-06
ARFCN	:CH 4183	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-55.19	-40.27	-14.12	-0.80	-13.00	-42.19
100.81	S	-69.37	-67.04	-1.13	-1.20	-13.00	-56.37
212.36	S	-62.76	-64.95	3.75	-1.56	-13.00	-49.76
249.22	S	-69.61	-71.24	3.33	-1.71	-13.00	-56.61
583.87	S	-67.81	-68.95	3.72	-2.58	-13.00	-54.81
773.02	S	-67.44	-68.25	3.71	-2.90	-13.00	-54.44
1673.20	H	-52.38	-51.42	3.49	-4.45	-13.00	-39.38
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-10-06
ARFCN	:CH 4233	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
36.79	S	-59.95	-46.41	-12.74	-0.80	-13.00	-46.95
89.17	S	-52.19	-50.58	-0.43	-1.18	-13.00	-39.19
163.86	S	-59.06	-56.87	-0.77	-1.42	-13.00	-46.06
224.97	S	-60.67	-62.73	3.67	-1.61	-13.00	-47.67
397.63	S	-64.62	-66.58	4.02	-2.07	-13.00	-51.62
770.11	S	-65.37	-66.18	3.71	-2.89	-13.00	-52.37
1693.20	H	-57.39	-56.36	3.44	-4.48	-13.00	-44.39
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-10-06
ARFCN	:CH 4233	Temp./Humi.	:22 deg_C/62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.00	S	-54.14	-38.96	-14.38	-0.80	-13.00	-41.14
106.63	S	-69.41	-66.30	-1.88	-1.23	-13.00	-56.41
208.48	S	-62.77	-65.04	3.82	-1.55	-13.00	-49.77
249.22	S	-70.35	-71.98	3.33	-1.71	-13.00	-57.35
583.87	S	-67.83	-68.97	3.72	-2.58	-13.00	-54.83
773.02	S	-67.68	-68.50	3.71	-2.90	-13.00	-54.68
1693.20	H	-56.20	-55.17	3.44	-4.48	-13.00	-43.20
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

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

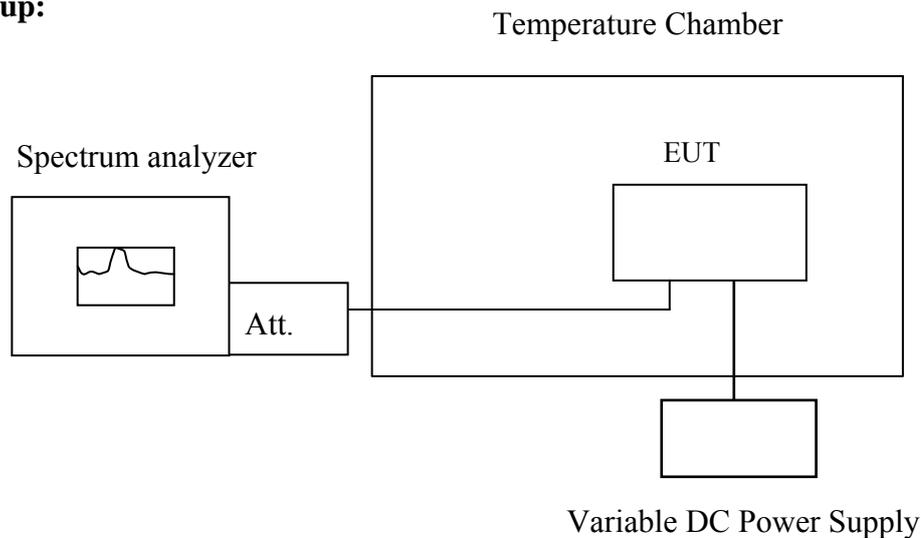
+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

According to RSS-133 §6.3, RSS-132 §5.3, RSS-139 §6.3

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

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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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				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	50	836600022	15	2091
3.7	40	836600018	11	2091
3.7	30	836600017	10	2091
3.7	20	836600007	0	2091
3.7	10	836600011	4	2091
3.7	0	836600005	-2	2091
3.7	-10	836599997	-10	2091
3.7	-20	836599992	-15	2091
3.7	-30	836599985	-22	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	50	1879999981	-6	4700
3.7	40	1879999982	-5	4700
3.7	30	1879999985	-2	4700
3.7	20	1879999987	0	4700
3.7	10	1879999989	2	4700
3.7	0	1879999995	8	4700
3.7	-10	1879999997	10	4700
3.7	-20	1880000004	17	4700
3.7	-30	1880000008	21	4700

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Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	50	1879999984	27	4700
3.7	40	1879999985	28	4700
3.7	30	1879999982	25	4700
3.7	20	1879999957	0	4700
3.7	10	1879999989	32	4700
3.7	0	1879999992	35	4700
3.7	-10	1880000005	48	4700
3.7	-20	1880000009	52	4700
3.7	-30	1880000015	58	4700

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	50	836599982	4	2091
3.7	40	836599986	8	2091
3.7	30	836599987	9	2091
3.7	20	836599978	0	2091
3.7	10	836599992	14	2091
3.7	0	836599998	20	2091
3.7	-10	836600006	28	2091
3.7	-20	836600014	36	2091
3.7	-30	836600016	38	2091

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Reference Frequency: WCDMA IV Mid Channel 1732.6				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	50	173260025	38	4331
3.7	40	173260022	35	4331
3.7	30	173260018	31	4331
3.7	20	173259987	0	4331
3.7	10	173260010	23	4331
3.7	0	173260006	19	4331
3.7	-10	173259995	8	4331
3.7	-20	173259990	3	4331
3.7	-30	173259989	2	4331

Note: The battery is rated 3.7V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

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

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

According to RSS-133 §6.3, RSS-132 §5.3, RSS-139 §6.3,

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

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

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

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, 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:

GPRS850

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	20	836600010	3	2091
3.7	20	836600007	0	2091
3.0	20	836600008	1	2091
2.9 (End point)	20	836600006	-1	2091

GPRS1900

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	20	1879999990	3	4700
3.7	20	1879999987	0	4700
3.0	20	1879999995	8	4700
2.9 (End point)	20	1880000013	26	4700

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WCDMA II

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	20	1879999978	21	4700
3.7	20	1879999957	0	4700
3.0	20	1879999983	26	4700
2.9 (End point)	20	1879999989	32	4700

WCDMA IV

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	20	173260016	29	4331
3.7	20	173259987	0	4331
3.0	20	173260012	25	4331
2.9 (End point)	20	173260009	22	4331

WCDMA V

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	20	836599990	12	2091
3.7	20	836599978	0	2091
3.0	20	836599992	14	2091
2.9 (End point)	20	836599991	13	2091

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13. PEAK TO AVERAGE RATIO

13.1. Standard Applicable:

According FCC 24.232(d), FCC 27.53 (d) (5) – The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

According to issue 3 of RSS 132, section 5.4, issue 6 of RSS 133, section 6.4, and RSS-139, section 6.4. Transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

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

Refer to section 2.4 in this report

13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:

Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms

Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

13.5. Measurement Result:

Refer to next page for tabular, and plot results

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13.5.1 Tabular Results:

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 512(L)		Channel 661(M)		Channel 810(H)	
	1850.2MHz		1880.0MHz		1909.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GPRS 1900	10.4	13	10.12	13	11.67	13
EDGE 1900	8.91	13	9.00	13	8.79	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 9262(L)		Channel 9400(M)		Channel 9538(H)	
	1852.4MHz		1880.0MHz		1907.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band II	2.98	13	3.42	13	3.39	13
HSUPA Band II	3.59	13	3.87	13	3.99	13
HSDPA Band II	3.80	13	4.17	13	4.15	13

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13.5.2 Measurement Results:

Figure 13-4: GPRS 1900 Channel Low

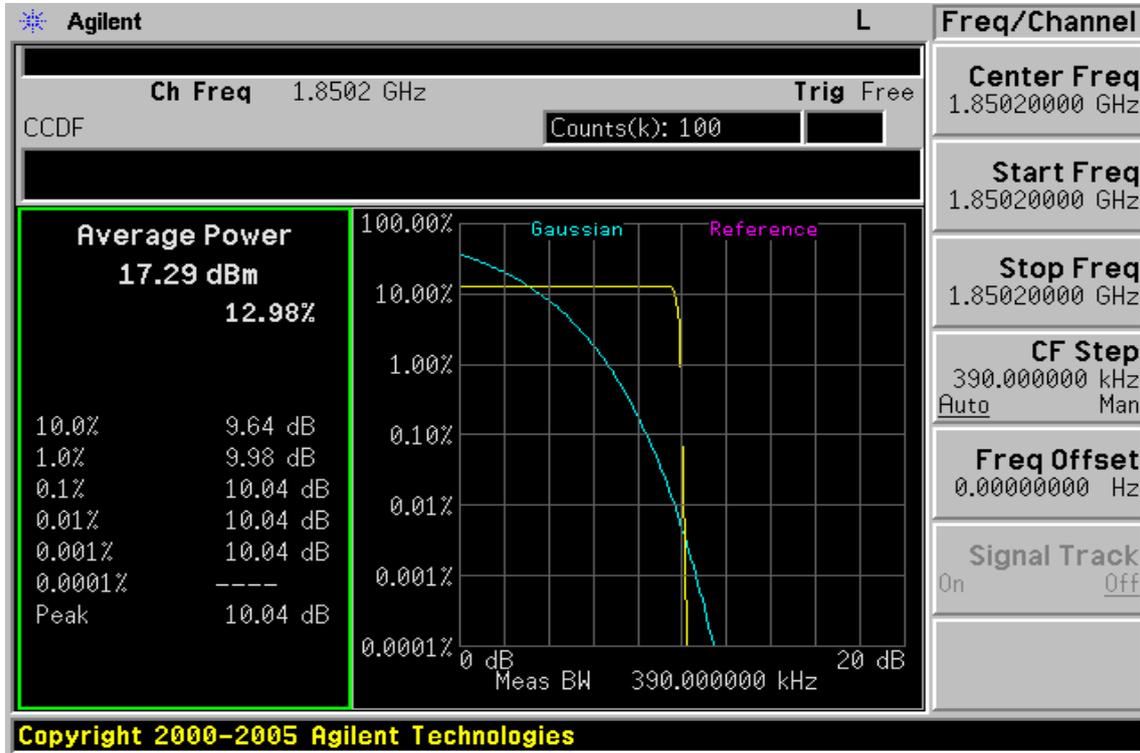
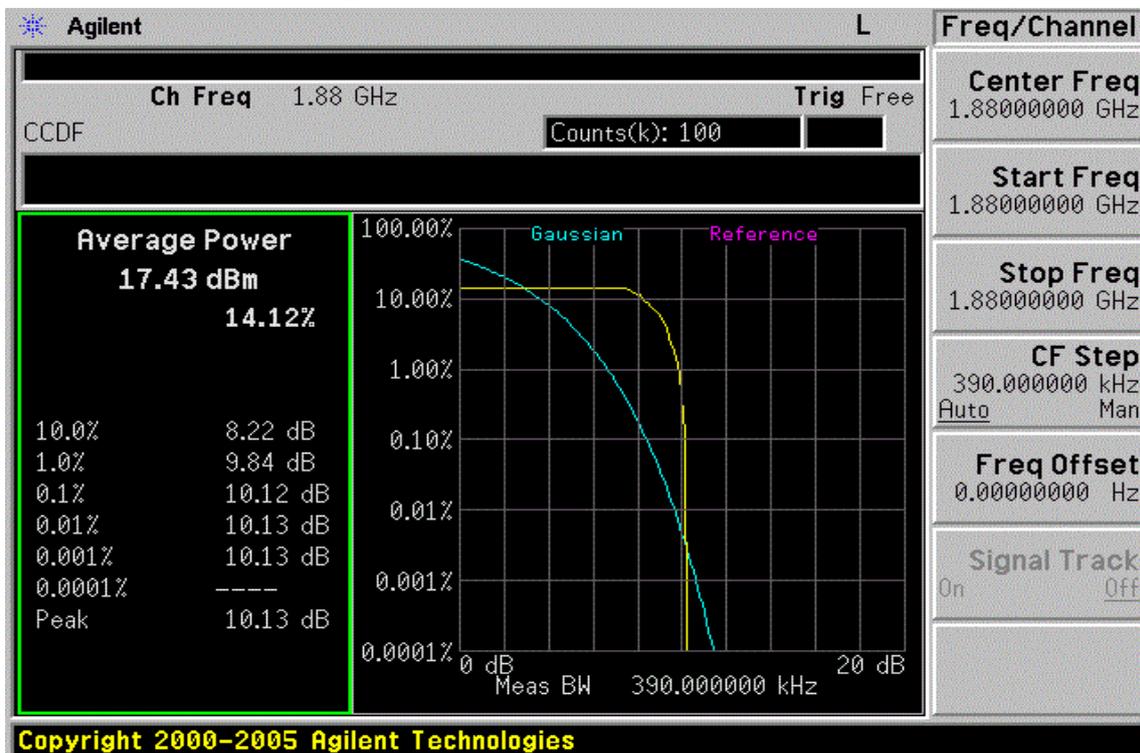


Figure 13-5: GPRS 1900 Channel Mid



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Figure 13-6: GPRS 1900 Channel High

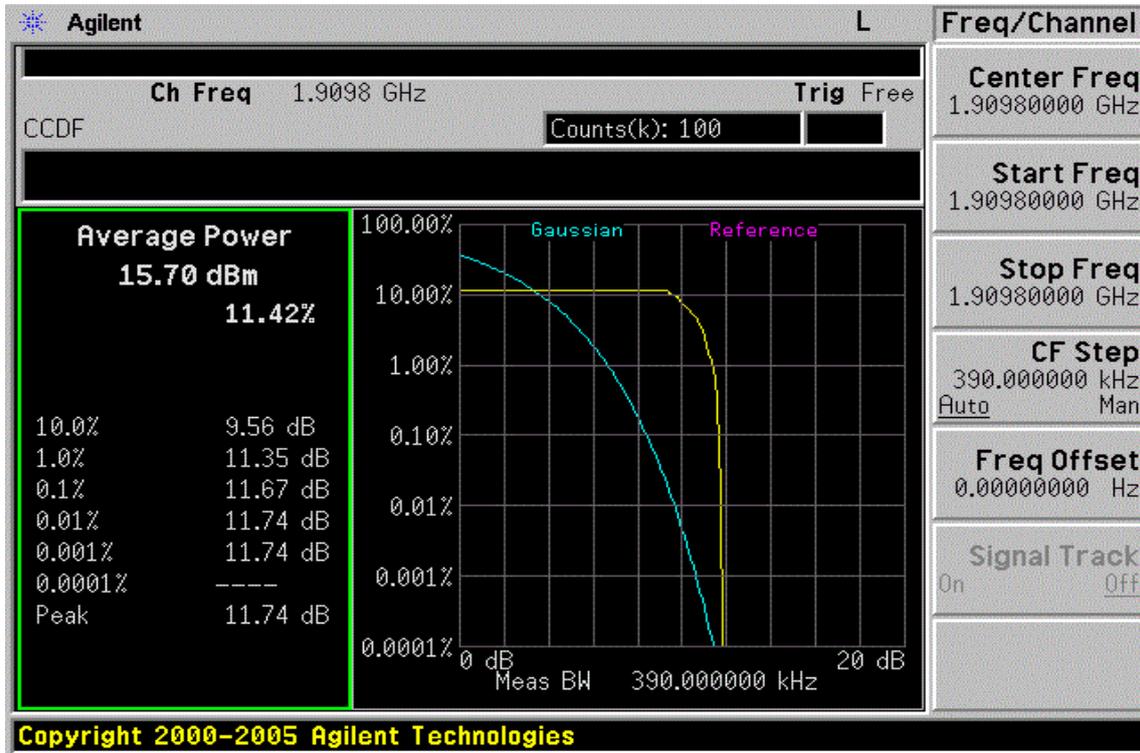


Figure 13-16: EDGE 1900 Channel Low



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Figure 13-17 EDGE 1900 Channel Mid

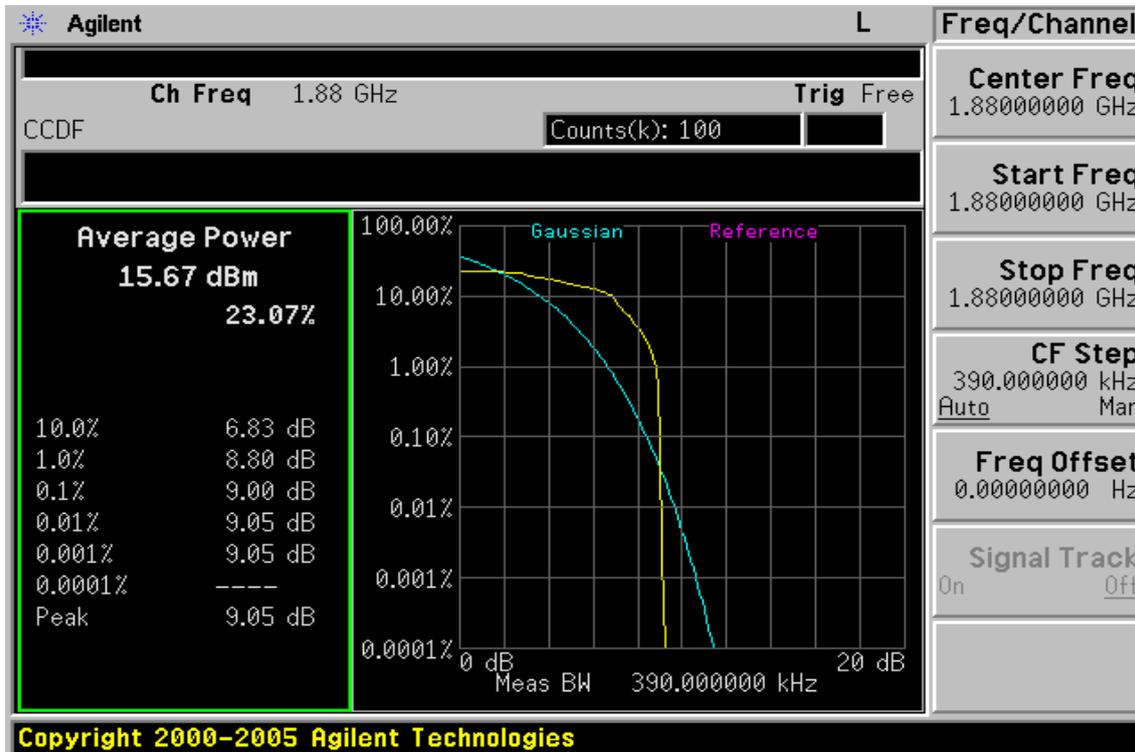


Figure 13-18: EDGE 1900 Channel High



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Figure 13-19: WCDMA Band II Channel Low

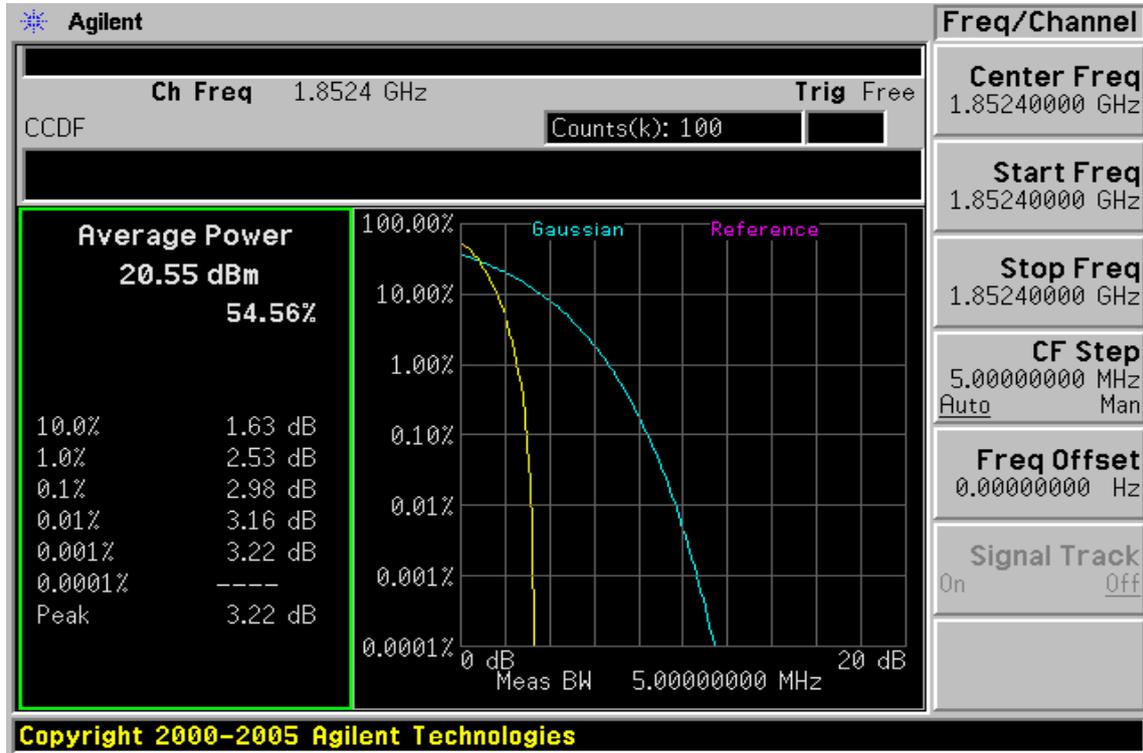
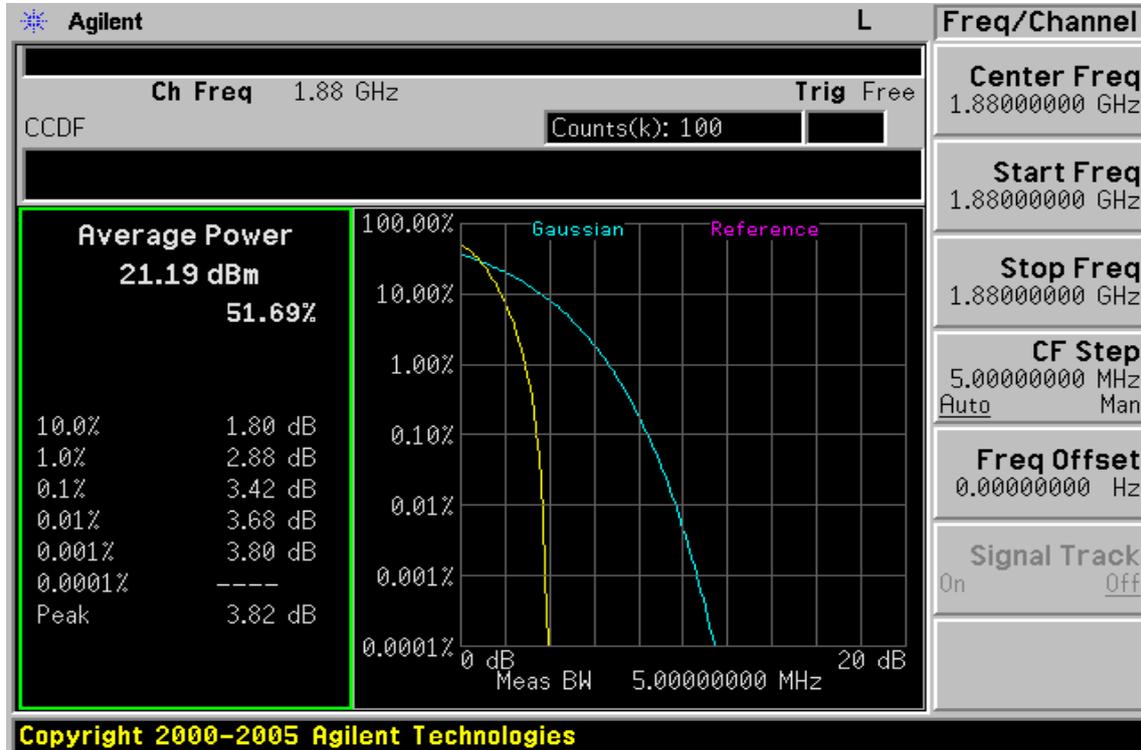


Figure 13-20: WCDMA Band II Channel Mid



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Figure 13-21: WCDMA Band II Channel High

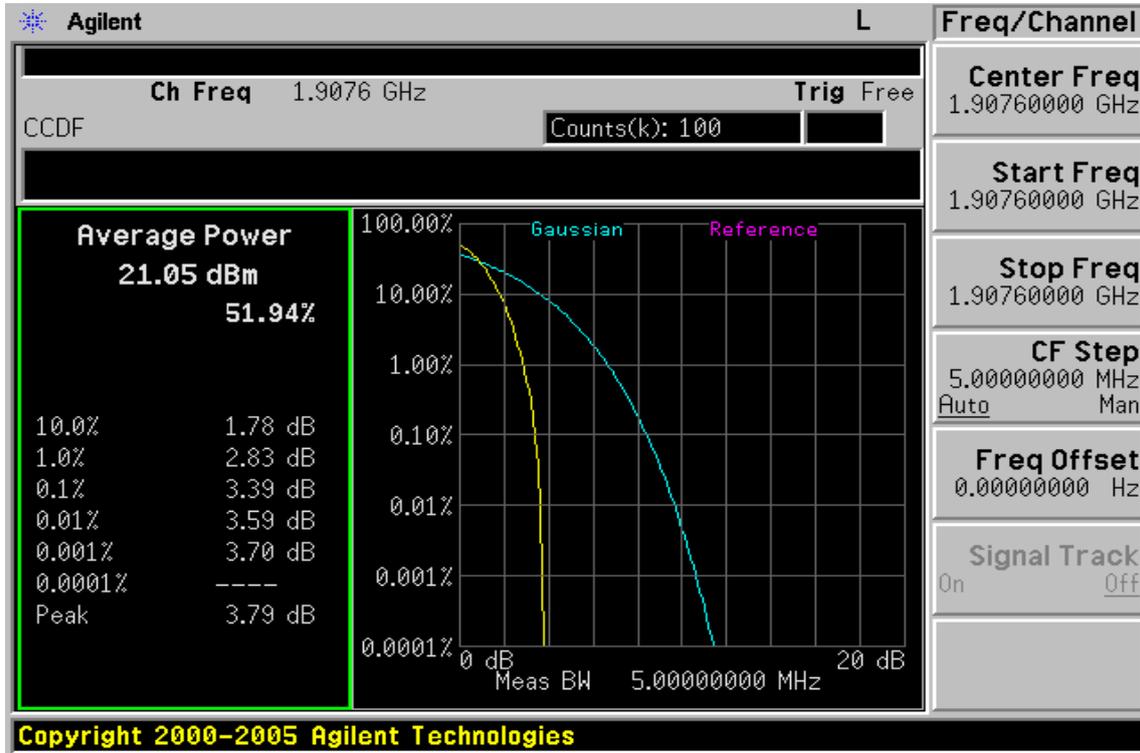
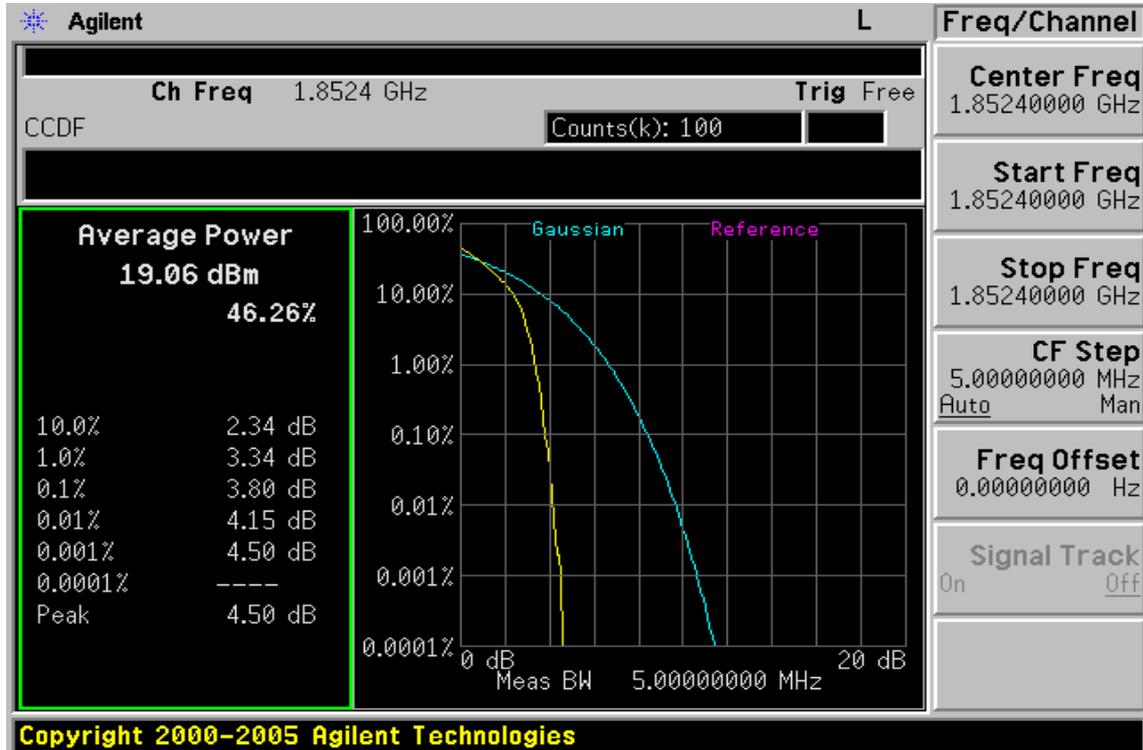


Figure 13-28: HSDPA Band II Channel Low



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Figure 13-29: HSDPA Band II Channel Mid

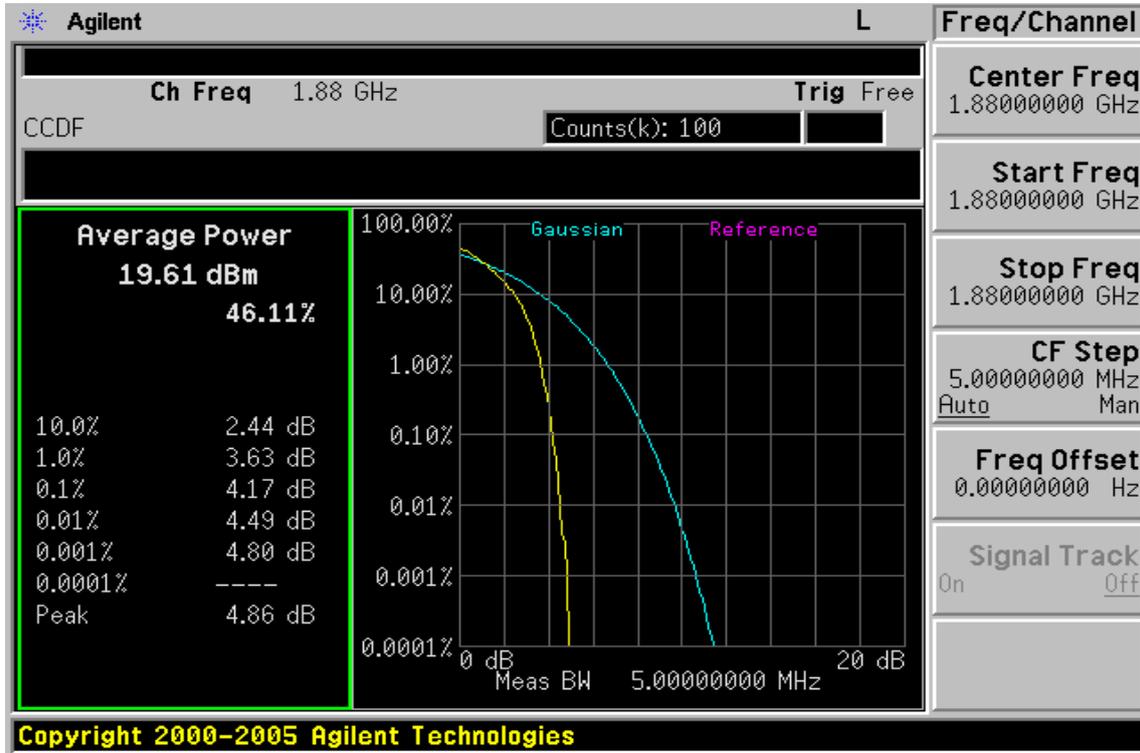
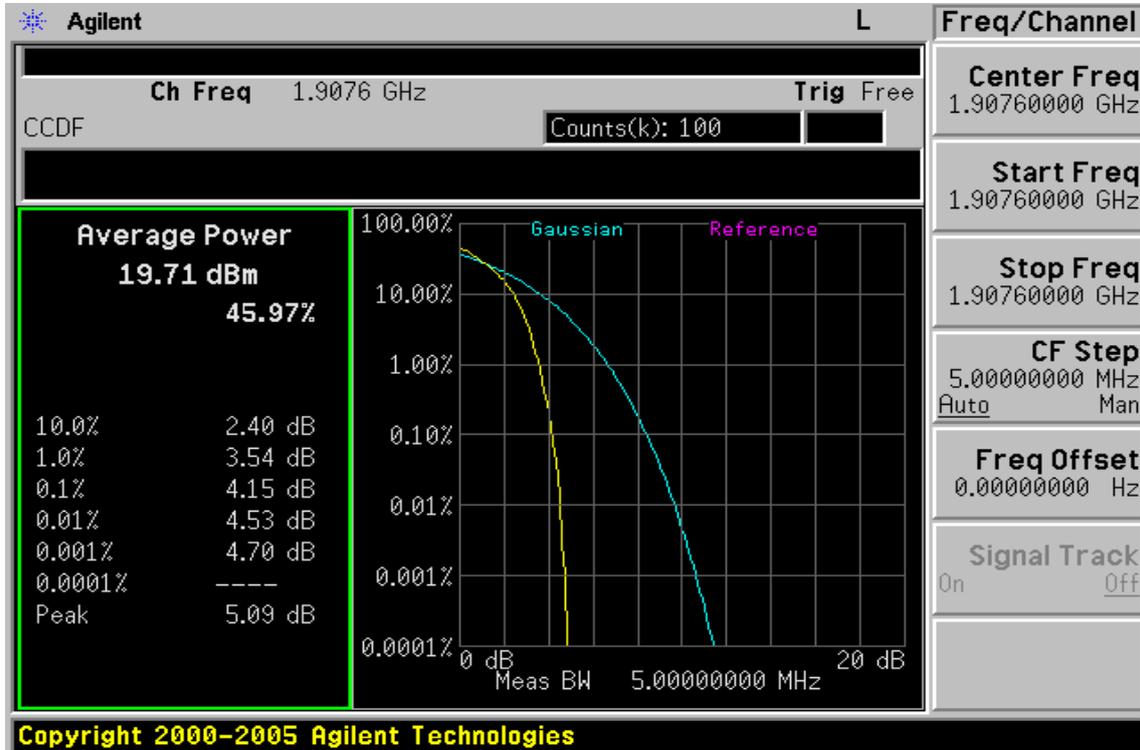


Figure 13-30: HSDPA Band II Channel High



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Figure 13-37: HSUPA Band II Channel Low

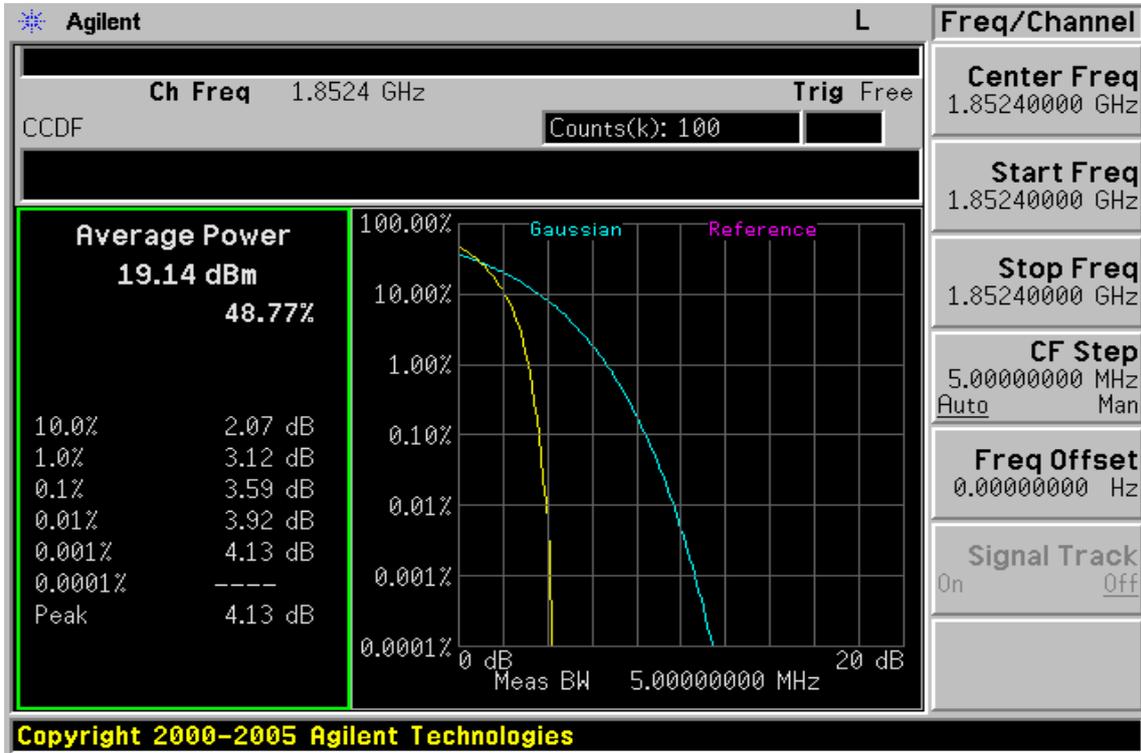
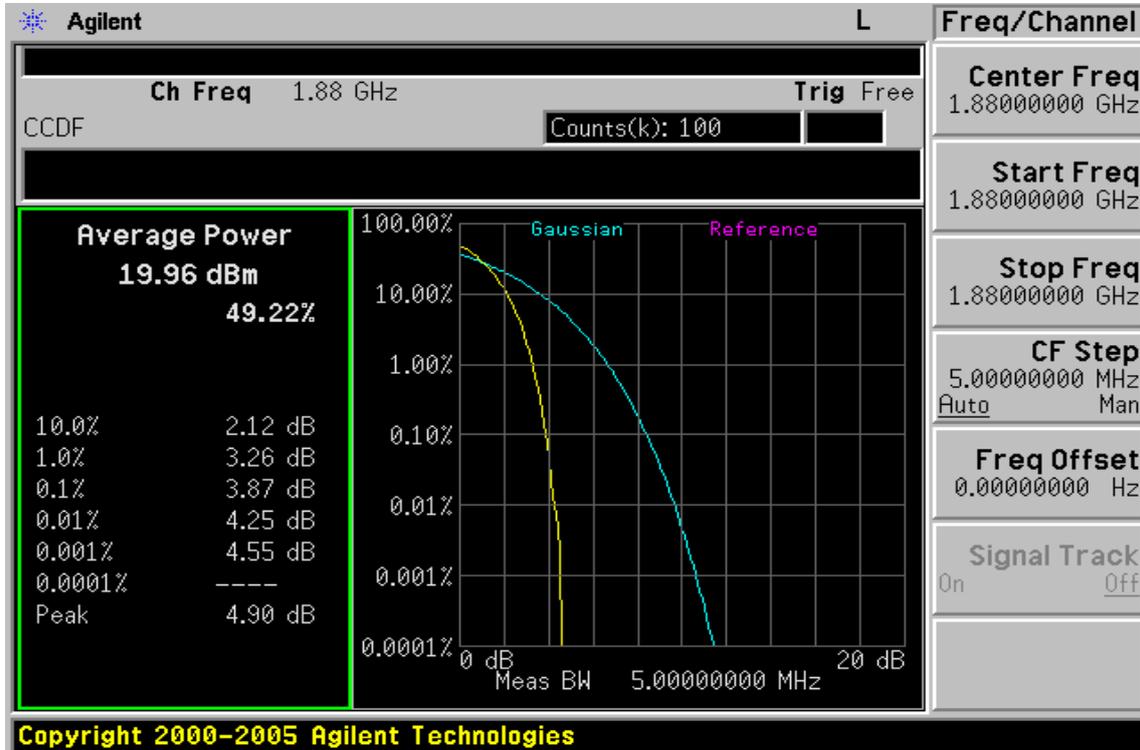


Figure 13-38: HSUPA Band II Channel Mid



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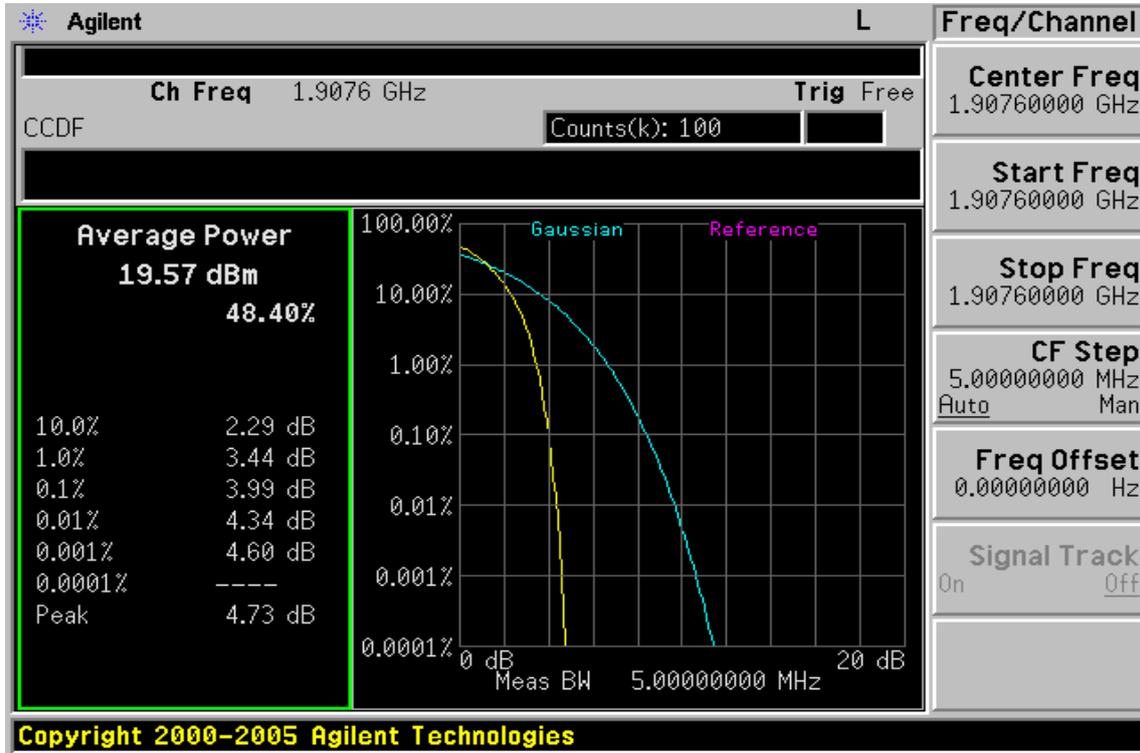
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Figure 13-39: HSUPA Band II Channel High



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