

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E AND INDUSTRY CANADA RSS-132 and RSS-133 REQUIREMENT

OF

Product Name: Juno T41/5
Brand Name: Trimble
Model No.: JUNO/T41/5-BWC
Model Difference: N/A
FCC ID: S9E-JNOBWC
IC: 5817A-JNOBWC
Report No.: EH/2012/40085
Issue Date: Jul. 31, 2012
FCC Rule Part: 2, 22H & 24E
IC Rule Part: RSS 132, Issue 2 and RSS 133, Issue 5
Prepared for: Trimble Navigation Limited
345 SW Avery Avenue, Corvallis, OR 97333
SGS Taiwan Ltd.
Prepared by: Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: Trimble Navigation Limited
345 SW Avery Avenue, Corvallis, OR 97333

Product Name: Juno T41/5

Brand Name: Trimble

Model No.: JUNO/T41/5-BWC

Model Difference: N/A

FCC ID: S9E-JNOBWC

IC: 5817A-JNOBWC

File Number: EH/2012/40085

Date of test: May. 29, 2012 ~ Jul. 26, 2012

Date of EUT Received: May. 29, 2012

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 and IC standards Issue 2 of RSS-132, Issue 5 of RSS-133.

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

Test By:



Date:

Jul. 31, 2012

Jimmy Liu / Engineer

Prepared By:



Date:

Jul. 31, 2012

Cherry Chen / Clerk

Approved By:



Date:

Jul. 31, 2012

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Jul. 31, 2012	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	Juno T41/5		
Brand Name:	Trimble		
Model No.:	JUNO/T41/5-BWC		
Model difference:	N/A		
Data Cable:	Model No.: A9136939, Supplier: Sinbon		
Power Supply:	3.7Vdc from battery or 5Vdc from adapter.		
	Battery:	Model No.: S11GD103A, Supplier: LICO	
	Adapter :	Model No.: PSA10F-050Q, Supplier: PHIHONG TECHNOLOGY CO., LTD	

GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS 850	824 MHz– 849MHz	33 dBm
	EDGE 850, Class 12	824 MHz– 849MHz	33 dBm
	GSM/GPRS 1900	1850MHz – 1910MHz	30 dBm
	EDGE 1900, Class 12	1850MHz – 1910MHz	30 dBm
	WCDMA / HSDPA /HSUPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA / HSDPA/ HSUPA Band V	826.40 MHz– 846.60MHz	24 dBm
Type of Emission	GSM 850: 244KGXW, GSM 1900: 247KGXW GPRS 850: 250KGXW, GPRS 1900: 251KGXW EDGE 850: 250KG7W, EDGE 1900: 251KG7W WCDMA Band II: 4M15F9W, WCDMA Band V: 4M14F9W, HSDPA Band II: 4M17F9W, HSDPA Band V: 4M15F9W HSUPA Band II: 4M15F9W, HSUPA Band V: 4M13F9W		
Hardware Version:	LP2		
Software Version:	1.0		
IMEI:	359998040009757		

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

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.7 Vdc	540
GSM 1900	3.7 Vdc	470
GPRS 850	3.7 Vdc	540
GPRS 1900	3.7 Vdc	470
EDGE 850	3.7 Vdc	440
EDGE 1900	3.7 Vdc	420
WCDMA B2	3.7 Vdc	930
WCDMA B5	3.7 Vdc	840
HSDPA B2	3.7 Vdc	950
HSDPA B5	3.7 Vdc	860
HSUPA B2	3.7 Vdc	960
HSUPA B5	3.7 Vdc	870

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

This submittal(s) (test report) is intended for **FCC ID: S9E-JNOBWC** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part27 of the FCC CFR 47 Rules and **IC: 5817A-JNOBWC** filing to comply with Issue 2 of RSS-132, Issue 5 of RSS-133.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, issue 2 of RSS-132 and issue 3 of RSS-133..

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

1.3. Test Facility

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

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

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

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

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

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2.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
Spectrum Analyzer	Agilent	E4440A	US41160416	03/17/2012	03/16/2014
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
WIDEB. RADIO COMIN. TESTER	R & S	CMW500	101582	07/12/2012	07/11/2013
Temperature Chamber	TERCHY	MHG-120LF	911009	04/16/2012	04/15/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2012	02/27/2013
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2012	02/27/2013
Splitter	Agilent	11636B	N/A	02/28/2012	02/27/2013
DC Power Supply	Agilent	E3640A	MY40005907	07/15/2011	07/14/2013

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/15/2011	02/14/2013
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/24/2011	11/23/2013
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2012	07/16/2014
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2012	07/16/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/17/2014
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	12/28/2011	12/27/2012

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Signal Generator	R&S	SMR40	100210	02/02/2012	02/01/2014
Signal Generator	Agilent	E4438C	MY45093613	07/15/2011	07/14/2013
Pre-Amplifier	Agilent	8447D	1937A02834	01/04/2012	01/03/2013
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2012	01/03/2013
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2012	02/27/2013
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
WIDEB. RADIO COMIN. TESTER	R & S	CMW500	101582	07/12/2012	07/11/2014
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	01/04/2012	01/03/2013
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/04/2012	01/03/2013
Filter 800-1000	Micro-Tronics	EWT	M2	02/28/2012	02/28/2013
Filter 1800-2000	Micro-Tronics	EWT	M2	02/28/2012	02/28/2013
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2012	02/27/2013
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2012	02/27/2013
3m Site NSA	SGS	966 chamber	N/A	07/15/2012	07/14/2013

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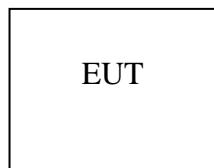
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2.5. Configuration of Tested System

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



Remote Side

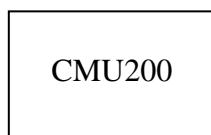


Table 2-1 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULTS

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

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Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	25.57	ERP	0.361
GSM 1900 Band	30.37	EIRP	1.089
GPRS 850 Band	25.40	ERP	0.347
GPRS 1900 Band	30.22	EIRP	1.052
EDGE 850 Band	25.01	ERP	0.317
EDGE 1900 Band	28.79	EIRP	0.757
WCDMA Band II	28.66	EIRP	0.735
WCDMA Band V	24.36	ERP	0.273
HSDPA Band II	29.92	EIRP	0.982
HSDPA Band V	24.84	ERP	0.305
HSUPA Band II	29.36	EIRP	0.863
HSUPA Band V	24.84	ERP	0.305

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE and WCDMA/HSDPA Band II and V with power adaptor. The worst-case of H position for GSM850, E2 position for GSM1900, H position for HSDPA Band II, E2 position for HSDPA Band V were reported.

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5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

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

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6. RF POWER OUTPUT MEASUREMENT

6.1 Standard Applicable:

According to FCC §2.1046.

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

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

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

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

Maximum Output Powers for HSUPA

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

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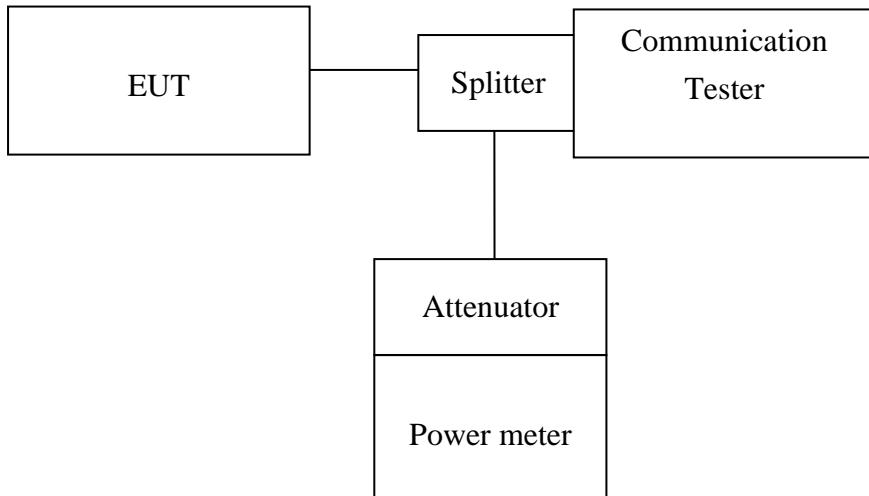
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6.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

6.3 Measurement Procedure:

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

6.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5 Measurement Result:

6.5.1 RF Conducted Output Power

6.5.1.1. GSM/GPRS/EDGE (GMSK; 8-PSK)

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 850	824.2	128	33.20	32.90
	836.6	190	32.90	32.60
	848.8	251	33.00	32.70

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 1900	1850.2	512	30.60	30.50
	1880.0	661	30.70	30.50
	1909.8	810	30.60	30.40

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
GPRS 850 (Class 12)	824.2	128	33.30	32.90	30.20	30.00
	836.6	190	33.00	32.70	30.10	29.90
	848.8	251	33.10	32.80	29.70	29.50

EUT Mode	Frequency (MHz)	CH	Peak Power (1Dn3UP) (dBm)	Average Burst Power (1Dn3UP) (dBm)	Peak Power (1Dn4UP) (dBm)	Average Burst Power (1Dn4UP) (dBm)
GPRS 850 (Class 12)	824.2	128	28.00	27.80	26.70	26.60
	836.6	190	27.90	27.70	26.50	26.30
	848.8	251	27.80	27.70	26.30	26.10

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EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
GPRS 1900 (Class 12)	1850.2	512	30.60	30.50	27.00	26.90
	1880.0	661	30.70	30.50	27.20	27.10
	1909.8	810	30.60	30.40	27.20	27.10

EUT Mode	Frequency (MHz)	CH	Peak Power (1Dn3UP) (dBm)	Average Burst Power (1Dn3UP) (dBm)	Peak Power (1Dn4UP) (dBm)	Average Burst Power (1Dn4UP) (dBm)
GPRS 1900 (Class 12)	1850.2	512	24.90	24.70	23.70	23.60
	1880.0	661	25.00	24.80	23.60	23.50
	1909.8	810	25.10	25.00	23.90	23.70

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
EDGE 850 (Class 12)	824.2	128	30.10	26.90	27.10	23.90
	836.6	190	30.10	26.90	27.10	23.80
	848.8	251	30.00	26.80	27.00	23.80

EUT Mode	Frequency (MHz)	CH	Peak Power (1Dn3UP) (dBm)	Average Burst Power (1Dn3UP) (dBm)	Peak Power (1Dn4UP) (dBm)	Average Burst Power (1Dn4UP) (dBm)
EDGE 850 (Class 12)	824.2	128	25.60	22.30	24.50	21.30
	836.6	190	25.40	22.10	24.50	21.20
	848.8	251	25.30	22.10	24.40	21.10

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EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
EDGE 1900 (Class 12)	1850.2	512	29.80	26.60	25.80	22.60
	1880.0	661	30.00	26.80	25.90	22.80
	1909.8	810	29.90	26.70	25.90	22.80

EUT Mode	Frequency (MHz)	CH	Peak Power (1Dn3UP) (dBm)	Average Burst Power (1Dn3UP) (dBm)	Peak Power (1Dn4UP) (dBm)	Average Burst Power (1Dn4UP) (dBm)
EDGE 1900 (Class 12)	1850.2	512	24.60	21.20	23.10	19.70
	1880.0	661	24.60	21.20	23.40	20.00
	1909.8	810	24.80	21.30	23.20	19.90

Cable loss offset Low Band: 0.8 dB

Cable loss offset High Band: 1 dB

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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)	Average Power (dBm)
WCDMA Band II	1852.4	9262	27.53	24.16
	1880.0	9400	27.06	23.72
	1907.6	9538	27.23	23.89

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
WCDMA Band V	826.40	4132	27.71	24.25
	836.60	4183	27.72	24.25
	846.60	4233	27.70	24.15

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSDPA Band II	1852.40	9262	26.89	23.29
	1880.00	9400	26.47	22.79
	1907.60	9538	26.68	23.02

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSDPA Band V	826.40	4132	27.04	23.40
	836.60	4183	27.22	23.50
	846.60	4233	27.29	23.58

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSUPA Band II	1852.40	9262	27.35	23.69
	1880.00	9400	26.84	23.22
	1907.60	9538	27.16	23.38

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSUPA Band V	826.40	4132	27.43	23.78
	836.60	4183	27.59	23.82
	846.60	4233	27.80	23.92

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

Cable loss offset Low Band: 0.8 dB

Cable loss offset High Band: 1 dB

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

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

Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA B2	1	24.33	23.61	23.75	20.3dBm – 25.7dBm	Pass
	2	24.04	23.58	23.74	20.3dBm – 25.7dBm	Pass
	3	23.85	23.16	23.22	19.8dBm – 25.7dBm	Pass
	4	23.92	23.17	23.34	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4172	4233		
HSDPA B5	1	24.04	24.11	24.27	20.3dBm – 25.7dBm	Pass
	2	24.18	24.14	24.02	20.3dBm – 25.7dBm	Pass
	3	23.58	23.63	23.78	19.8dBm – 25.7dBm	Pass
	4	23.63	23.67	23.84	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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

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Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSUPA B2	1	24.08	23.70	23.83	17.3dBm – 25.7dBm	Pass
	2	22.13	21.77	21.87	16.8dBm – 25.7dBm	Pass
	3	23.14	22.72	22.91	17.8dBm – 25.7dBm	Pass
	4	22.26	21.82	21.91	16.8dBm – 25.7dBm	Pass
	5	23.97	23.56	23.74	17.3dBm – 25.7dBm	Pass

Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4172	4233		
HSUPA B5	1	24.21	24.18	24.07	17.3dBm – 25.7dBm	Pass
	2	22.27	22.26	22.11	16.8dBm – 25.7dBm	Pass
	3	23.25	23.24	23.15	17.8dBm – 25.7dBm	Pass
	4	22.32	22.32	22.19	16.8dBm – 25.7dBm	Pass
	5	24.07	24.01	23.96	17.3dBm – 25.7dBm	Pass

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6.5.2. Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	30.5	28.7	26.8	24.5	22.8	21	19	16.6	14.6
PCL	9	10	11	12	13	14	15		
Output power (dBm)	12.6	10.7	8.6	6.4	4.1	2.6	0.4		

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

WCDMA/HSDPA band II / 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 are limited to 7W ERP.

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

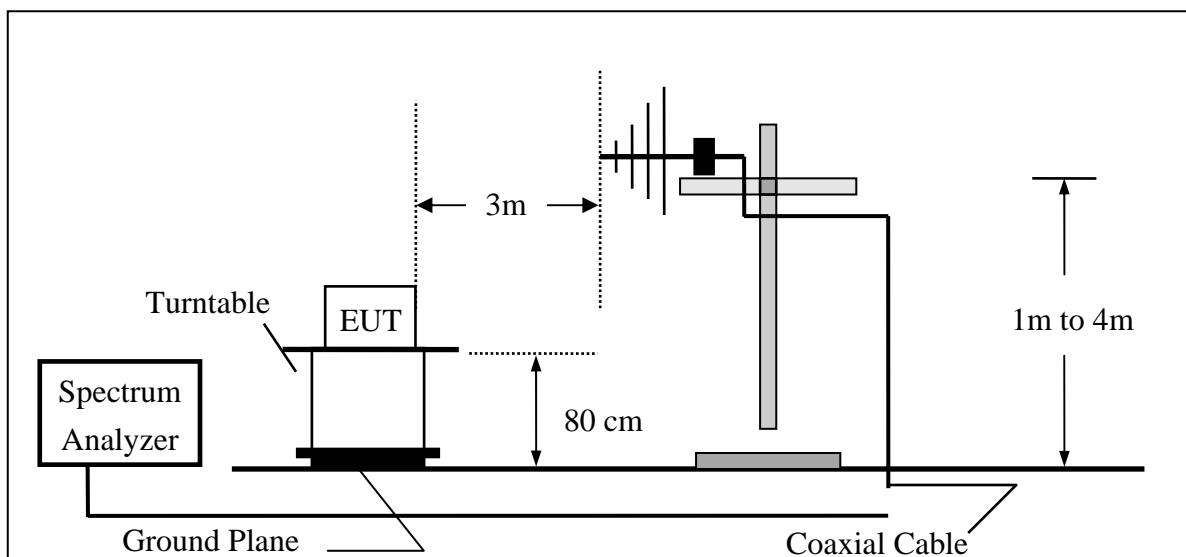
According to IC RSS-133 §6.4

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

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

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

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

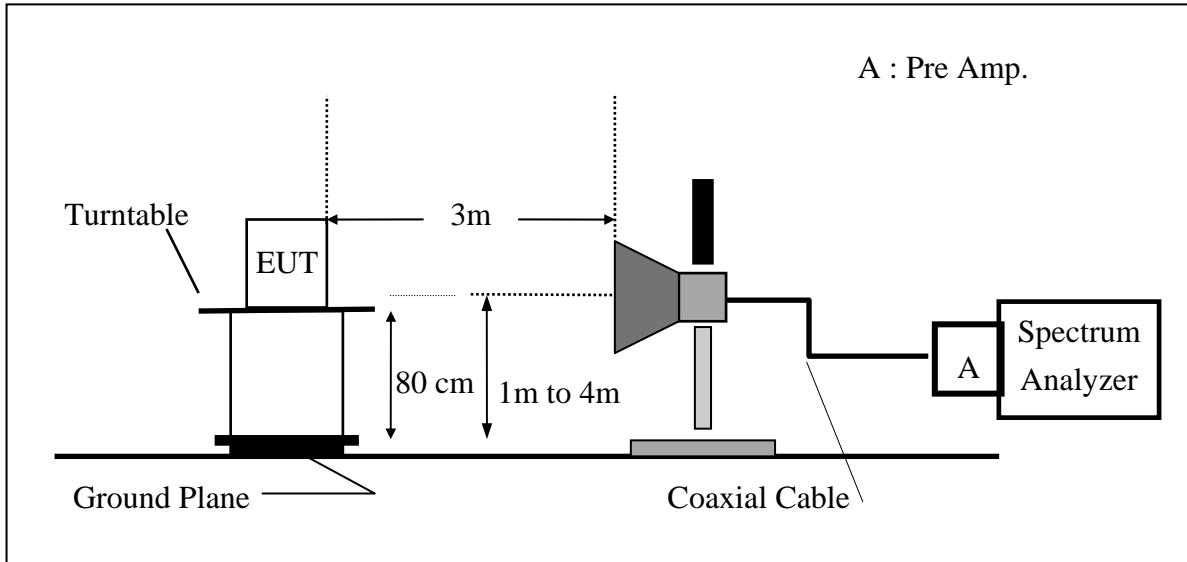


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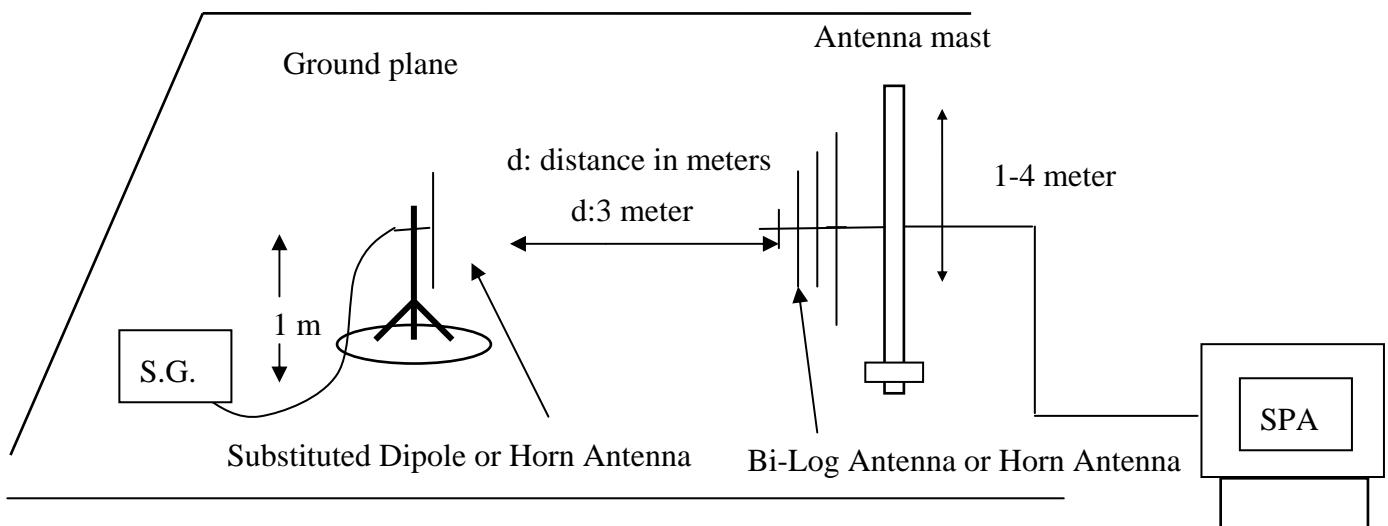
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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:

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. Measurement Result:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	H	824.20	128	V	25.43	3.96	-4.22	25.17	38.45
				H	21.22	3.96	-4.22	20.96	38.45
		836.60	190	V	25.57	4.00	-4.24	25.33	38.45
				H	22.17	4.00	-4.24	21.93	38.45
		848.80	251	V	25.87	4.03	-4.33	25.57	38.45
				H	22.96	4.03	-4.33	22.66	38.45
	E1	824.20	128	V	22.76	3.96	-4.22	22.50	38.45
				H	25.46	3.96	-4.22	25.20	38.45
		836.60	190	V	22.96	4.00	-4.24	22.72	38.45
				H	25.47	4.00	-4.24	25.22	38.45
		848.80	251	V	23.52	4.03	-4.33	23.22	38.45
				H	25.72	4.03	-4.33	25.42	38.45
	E2	824.20	128	V	22.45	3.96	-4.22	22.19	38.45
				H	25.53	3.96	-4.22	25.27	38.45
		836.60	190	V	22.10	4.00	-4.24	21.86	38.45
				H	25.49	4.00	-4.24	25.25	38.45
		848.80	251	V	21.64	4.03	-4.33	21.34	38.45
				H	25.75	4.03	-4.33	25.45	38.45

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	H	1850.20	512	V	29.81	4.17	-5.49	28.50	33.00
				H	29.12	4.51	-5.49	28.14	33.00
		1880.00	661	V	29.38	4.13	-5.56	27.96	33.00
				H	28.40	4.44	-5.56	27.28	33.00
		1909.80	810	V	31.44	4.09	-5.56	29.98	33.00
				H	30.31	4.36	-5.56	29.12	33.00
	E1	1850.20	512	V	30.84	4.17	-5.49	29.52	33.00
				H	27.23	4.51	-5.49	26.25	33.00
		1880.00	661	V	30.11	4.13	-5.56	28.68	33.00
				H	28.24	4.44	-5.56	27.12	33.00
		1909.80	810	V	31.61	4.09	-5.56	30.14	33.00
				H	28.24	4.36	-5.56	27.05	33.00
	E2	1850.20	512	V	29.32	4.17	-5.49	28.01	33.00
				H	31.35	4.51	-5.49	30.37	33.00
		1880.00	661	V	29.35	4.13	-5.56	27.92	33.00
				H	30.62	4.44	-5.56	29.50	33.00
		1909.80	810	V	31.32	4.09	-5.56	29.86	33.00
				H	30.28	4.36	-5.56	29.09	33.00

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	H	824.20	128	V	25.31	3.96	-4.22	25.05	38.45
				H	22.63	3.96	-4.22	22.37	38.45
		836.60	190	V	25.54	4.00	-4.24	25.30	38.45
				H	22.99	4.00	-4.24	22.75	38.45
		848.80	251	V	25.70	4.03	-4.33	25.40	38.45
				H	22.95	4.03	-4.33	22.65	38.45
	E1	824.20	128	V	22.81	3.96	-4.22	22.55	38.45
				H	22.29	3.96	-4.22	22.03	38.45
		836.60	190	V	22.57	4.00	-4.24	22.33	38.45
				H	25.34	4.00	-4.24	25.10	38.45
		848.80	251	V	22.21	4.03	-4.33	21.91	38.45
				H	25.56	4.03	-4.33	25.26	38.45
	E2	824.20	128	V	22.93	3.96	-4.22	22.67	38.45
				H	25.33	3.96	-4.22	25.07	38.45
		836.60	190	V	22.69	4.00	-4.24	22.45	38.45
				H	25.29	4.00	-4.24	25.05	38.45
		848.80	251	V	22.34	4.03	-4.33	22.04	38.45
				H	25.57	4.03	-4.33	25.27	38.45

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dB	dB	dBm	dBm
GPRS 1900	H	1850.20	512	V	29.79	4.17	-5.49	28.48	33.00
				H	29.31	4.51	-5.49	28.33	33.00
		1880.00	661	V	29.40	4.13	-5.56	27.97	33.00
				H	28.35	4.44	-5.56	27.23	33.00
		1909.80	810	V	31.40	4.09	-5.56	29.94	33.00
				H	30.40	4.36	-5.56	29.21	33.00
	E1	1850.20	512	V	30.67	4.17	-5.49	29.36	33.00
				H	26.13	4.51	-5.49	25.15	33.00
		1880.00	661	V	29.78	4.13	-5.56	28.35	33.00
				H	26.73	4.44	-5.56	25.61	33.00
		1909.80	810	V	31.20	4.10	-5.56	29.74	33.00
				H	27.76	4.36	-5.56	26.57	33.00
	E2	1850.20	512	V	29.48	4.17	-5.49	28.17	33.00
				H	31.20	4.51	-5.49	30.22	33.00
		1880.00	661	V	29.33	4.13	-5.56	27.90	33.00
				H	30.47	4.44	-5.56	29.35	33.00
		1909.80	810	V	31.41	4.09	-5.56	29.95	33.00
				H	30.02	4.36	-5.56	28.83	33.00

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	H	824.20	128	V	24.29	3.96	-4.22	24.03	38.45
				H	18.75	3.96	-4.22	18.49	38.45
		836.60	190	V	1.52	4.00	-4.24	24.37	38.45
				H	19.32	4.00	-4.24	19.08	38.45
		848.80	251	V	24.93	4.03	-4.33	24.63	38.45
				H	19.72	4.03	-4.33	19.41	38.45
	E1	824.20	128	V	17.85	3.96	-4.22	17.59	38.45
				H	24.83	3.96	-4.22	24.57	38.45
		836.60	190	V	20.46	4.00	-4.24	20.22	38.45
				H	24.68	4.00	-4.24	24.44	38.45
		848.80	251	V	20.72	4.03	-4.33	20.42	38.45
				H	24.96	4.03	-4.33	24.66	38.45
	E2	824.20	128	V	20.70	3.96	-4.22	20.44	38.45
				H	25.25	3.96	-4.22	24.99	38.45
		836.60	190	V	20.85	4.00	-4.24	20.61	38.45
				H	25.25	4.00	-4.24	25.01	38.45
		848.80	251	V	20.50	4.03	-4.33	20.20	38.45
				H	24.75	4.03	-4.33	24.45	38.45

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	H	1850.20	512	V	29.08	4.17	-5.49	27.76	33.00
				H	28.38	4.51	-5.49	27.40	33.00
		1880.00	661	V	28.48	4.13	-5.56	27.05	33.00
				H	27.39	4.44	-5.56	26.26	33.00
		1909.80	810	V	30.25	4.09	-5.56	28.76	33.00
				H	29.20	4.36	-5.56	28.01	33.00
	E1	1850.20	512	V	29.65	4.17	-5.49	28.33	33.00
				H	24.96	4.51	-5.49	23.98	33.00
		1880.00	661	V	28.80	4.13	-5.56	27.37	33.00
				H	25.69	4.44	-5.56	24.57	33.00
		1909.80	810	V	30.25	4.09	-5.56	28.79	33.00
				H	26.67	4.36	-5.56	25.48	33.00
	E2	1850.20	512	V	26.10	4.17	-5.49	24.78	33.00
				H	28.90	4.51	-5.49	27.92	33.00
		1880.00	661	V	27.55	4.13	-5.56	26.12	33.00
				H	28.04	4.44	-5.56	26.92	33.00
		1909.80	810	V	28.44	4.09	-5.56	26.97	33.00
				H	29.03	4.36	-5.56	27.84	33.00

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dB	dB	dBm	dBm
WCDMA Band II	H	1852.40	9262	V	29.98	4.17	-5.49	28.66	33.00
				H	23.04	4.51	-5.49	22.06	33.00
		1880.00	9400	V	28.11	4.13	-5.56	26.68	33.00
				H	26.23	4.44	-5.56	25.11	33.00
		1907.60	9538	V	27.44	4.10	-5.62	25.91	33.00
				H	25.71	4.37	-5.62	24.45	33.00
	E1	1852.40	9262	V	28.20	4.17	-5.49	26.88	33.00
				H	25.55	4.51	-5.49	24.57	33.00
		1880.00	9400	V	27.14	4.13	-5.56	25.72	33.00
				H	24.20	4.44	-5.56	23.08	33.00
		1907.60	9538	V	27.52	4.10	-5.62	26.00	33.00
				H	23.23	4.37	-5.62	21.98	33.00
	E2	1852.40	9262	V	24.73	4.17	-5.49	23.41	33.00
				H	27.87	4.51	-5.49	26.89	33.00
		1880.00	9400	V	24.77	4.13	-5.56	23.34	33.00
				H	26.79	4.44	-5.56	25.66	33.00
		1907.60	9538	V	27.00	4.10	-5.62	25.47	33.00
				H	27.63	4.37	-5.62	26.38	33.00

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA Band V	H	826.40	4132	V	22.27	3.97	-4.22	22.02	38.45
				H	19.75	3.97	-4.22	19.49	38.45
		836.60	4183	V	22.87	4.00	-4.24	22.63	38.45
				H	19.83	4.00	-4.24	19.59	38.45
		846.60	4233	V	22.09	4.02	-4.24	21.87	38.45
				H	18.58	4.02	-4.24	18.36	38.45
	E1	826.40	4132	V	14.95	3.97	-4.22	14.70	38.45
				H	23.96	3.97	-4.22	23.71	38.45
		836.60	4183	V	16.19	4.00	-4.24	15.95	38.45
				H	24.15	4.00	-4.24	23.91	38.45
		846.60	4233	V	14.69	4.02	-4.24	14.47	38.45
				H	23.74	4.02	-4.24	23.52	38.45
	E2	826.40	4132	V	14.61	3.97	-4.22	14.36	38.45
				H	24.37	3.97	-4.22	24.12	38.45
		836.60	4183	V	14.94	4.00	-4.24	14.70	38.45
				H	24.60	4.00	-4.24	24.36	38.45
		846.60	4233	V	13.65	4.02	-4.24	13.43	38.45
				H	24.26	4.02	-4.24	24.04	38.45

Remark :

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band II	H	1852.40	9262	V	31.24	4.17	-5.49	29.92	33.00
				H	24.49	4.51	-5.49	23.51	33.00
		1880.00	9400	V	29.66	4.13	-5.56	28.24	33.00
				H	27.91	4.44	-5.56	26.79	33.00
		1907.60	9538	V	29.16	4.10	-5.62	27.63	33.00
				H	27.37	4.37	-5.62	26.11	33.00
	E1	1852.40	9262	V	28.28	4.17	-5.49	26.96	33.00
				H	27.23	4.51	-5.49	26.25	33.00
		1880.00	9400	V	27.57	4.13	-5.56	26.15	33.00
				H	26.36	4.44	-5.56	25.24	33.00
		1907.60	9538	V	28.63	4.10	-5.62	27.11	33.00
				H	26.18	4.37	-5.62	24.93	33.00
	E2	1852.40	9262	V	25.83	4.17	-5.49	24.51	33.00
				H	29.29	4.51	-5.49	28.31	33.00
		1880.00	9400	V	26.41	4.13	-5.56	24.98	33.00
				H	28.13	4.44	-5.56	27.00	33.00
		1907.60	9538	V	28.25	4.10	-5.62	26.73	33.00
				H	28.71	4.37	-5.62	27.46	33.00

Remark :

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA Band V	H	826.40	4132	V	23.07	3.97	-4.22	22.82	38.45
				H	16.97	3.97	-4.22	16.72	38.45
		836.60	4183	V	23.63	4.00	-4.24	23.39	38.45
				H	16.62	4.00	-4.24	16.38	38.45
		846.60	4233	V	22.76	4.02	-4.24	22.54	38.45
				H	14.93	4.02	-4.24	14.71	38.45
	E1	826.40	4132	V	13.83	3.97	-4.22	13.57	38.45
				H	23.61	3.97	-4.22	23.36	38.45
		836.60	4183	V	15.55	4.00	-4.24	15.31	38.45
				H	24.06	4.00	-4.24	23.82	38.45
		846.60	4233	V	13.61	4.02	-4.24	13.40	38.45
				H	23.72	4.02	-4.24	23.50	38.45
	E2	826.40	4132	V	13.20	3.97	-4.22	12.95	38.45
				H	24.96	3.97	-4.22	24.70	38.45
		836.60	4183	V	14.26	4.00	-4.24	14.02	38.45
				H	25.08	4.00	-4.24	24.84	38.45
		846.60	4233	V	12.21	4.02	-4.24	11.99	38.45
				H	24.23	4.02	-4.24	24.01	38.45

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band II	H	1852.4	9262	V	30.68	4.17	-5.49	29.36	33.00
				H	23.86	4.51	-5.49	22.88	33.00
		1880.0	9400	V	29.06	4.13	-5.56	27.63	33.00
				H	27.27	4.44	-5.56	26.15	33.00
	E1	1907.6	9538	V	28.92	4.10	-5.62	27.39	33.00
				H	26.88	4.37	-5.62	25.62	33.00
		1852.4	9262	V	27.33	4.17	-5.49	26.02	33.00
				H	26.47	4.51	-5.49	25.49	33.00
		1880.0	9400	V	27.64	4.13	-5.56	26.22	33.00
				H	25.41	4.44	-5.56	24.29	33.00
	E2	1907.6	9538	V	28.21	4.10	-5.62	26.69	33.00
				H	26.47	4.37	-5.62	25.22	33.00
		1852.4	9262	V	25.78	4.17	-5.49	24.46	33.00
				H	28.76	4.51	-5.49	27.78	33.00
		1880.0	9400	V	27.64	4.13	-5.56	26.21	33.00
				H	28.10	4.44	-5.56	26.98	33.00
		1907.6	9538	V	27.70	4.10	-5.62	26.18	33.00
				H	28.50	4.37	-5.62	27.24	33.00

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA Band V	H	826.4	4132	V	23.07	3.97	-4.22	22.82	38.45
				H	16.97	3.97	-4.22	16.72	38.45
		836.6	4183	V	23.63	4.00	-4.24	23.39	38.45
				H	16.62	4.00	-4.24	16.38	38.45
		846.6	4233	V	22.76	4.02	-4.24	22.54	38.45
				H	14.93	4.02	-4.24	14.71	38.45
	E1	826.4	4132	V	13.83	3.97	-4.22	13.57	38.45
				H	23.61	3.97	-4.22	23.36	38.45
		836.6	4183	V	15.55	4.00	-4.24	15.31	38.45
				H	24.06	4.00	-4.24	23.82	38.45
		846.6	4233	V	13.61	4.02	-4.24	13.40	38.45
				H	23.72	4.02	-4.24	23.50	38.45
	E2	826.4	4132	V	13.20	3.97	-4.22	12.95	38.45
				H	24.96	3.97	-4.22	24.70	38.45
		836.6	4183	V	14.26	4.00	-4.24	14.02	38.45
				H	25.08	4.00	-4.24	24.84	38.45
		846.6	4233	V	12.21	4.02	-4.24	11.99	38.45
				H	24.23	4.02	-4.24	24.01	38.45

Remark :

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

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8. 99% OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049.

According to IC RSS-Gen Issue 3 §4.6.1

According to IC RSS-133 §2.3

8.2. Test Set-up:

Refer to section 5.2 in this report

8.3. Measurement Procedure:

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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8.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GSM 850	824.20	128	243.8972
	836.60	190	241.4810
	848.80	251	244.0374

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GSM 1900	1850.20	512	241.3023
	1880.00	661	246.4884
	1909.80	810	247.5713

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GPRS 850	824.20	128	245.9699
	836.60	190	240.8710
	848.80	251	250.2066

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GPRS 1900	1850.20	512	243.3173
	1880.00	661	245.2732
	1909.80	810	251.4685

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
EDGE 850	824.20	128	248.6987
	836.60	190	241.3470
	848.80	251	250.8943

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
EDGE 1900	1850.20	512	243.2234
	1880.00	661	241.6158
	1909.80	810	251.3789

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band II	1852.40	9262	4.1292
	1880.00	9400	4.1305
	1907.60	9538	4.1486

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band V	826.40	4132	4.1380
	836.60	4183	4.1441
	846.60	4233	4.1156

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band II	1852.40	9262	4.1090
	1880.00	9400	4.1709
	1907.60	9538	4.1260

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band V	826.40	4132	4.1397
	836.60	4183	4.1460
	846.60	4233	4.1239

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA Band II	1852.40	9262	4.1286
	1880.00	9400	4.1474
	1907.60	9538	4.1531

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA Band V	826.40	4132	4.1149
	836.60	4183	4.1285
	846.60	4233	4.1205

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Figure 8-1: GSM 850 Channel Low

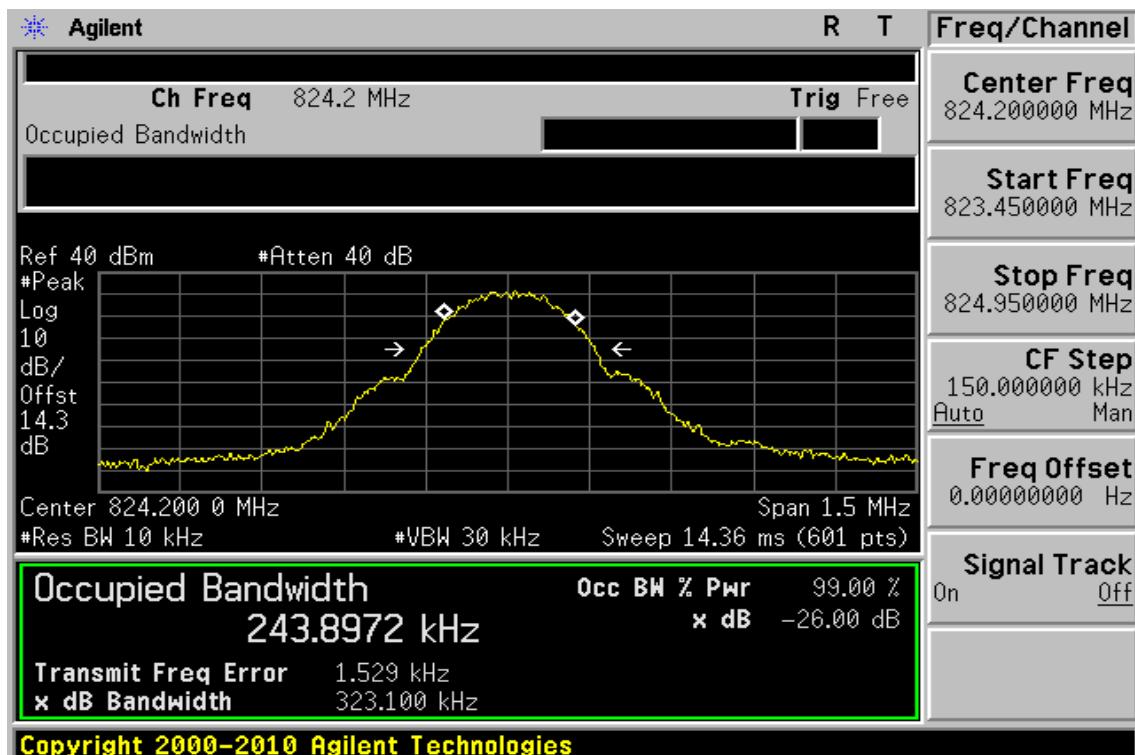
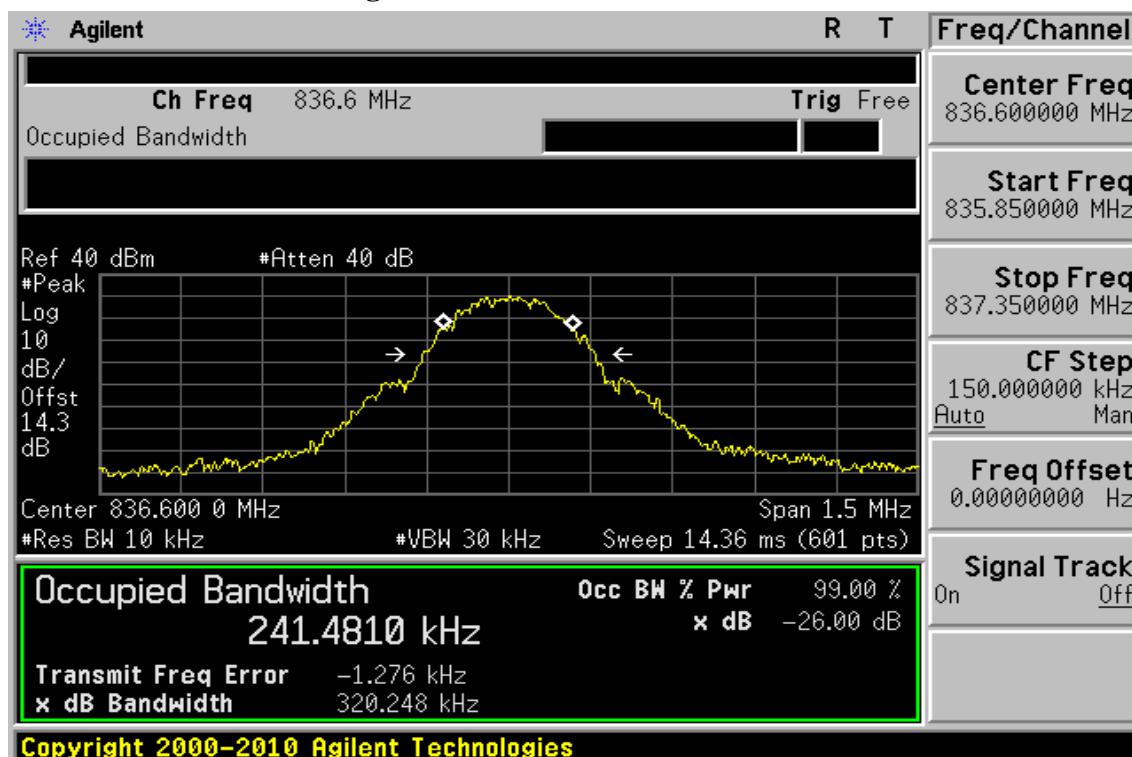


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

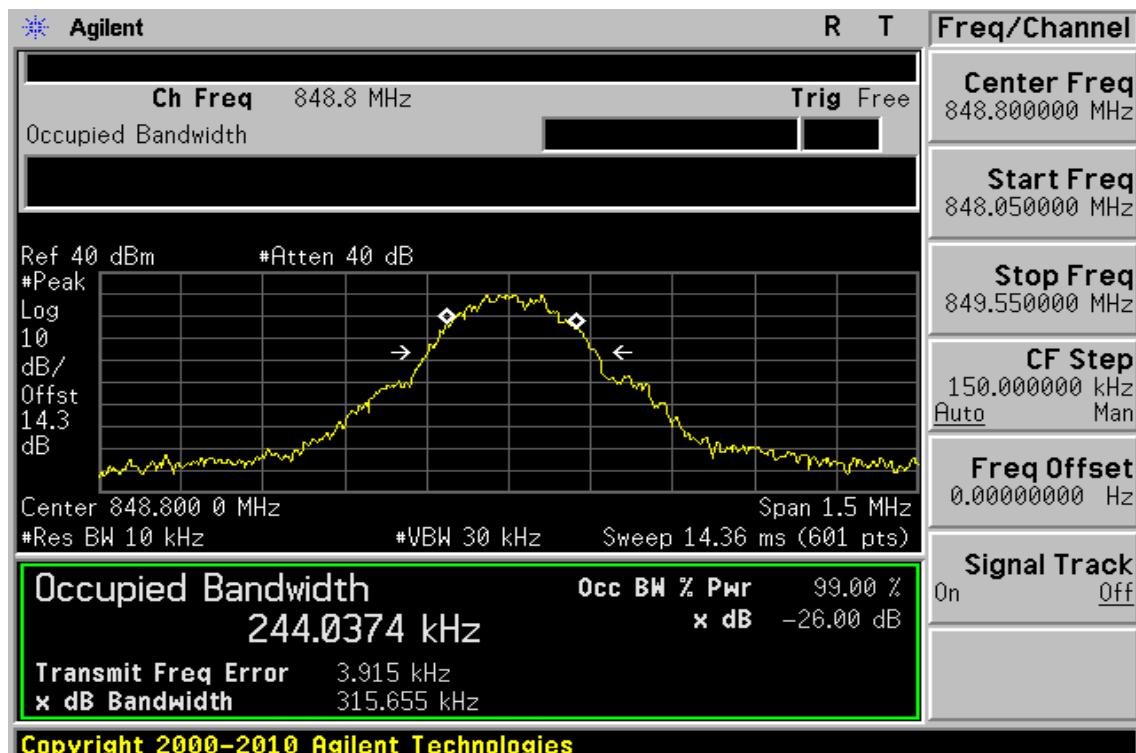
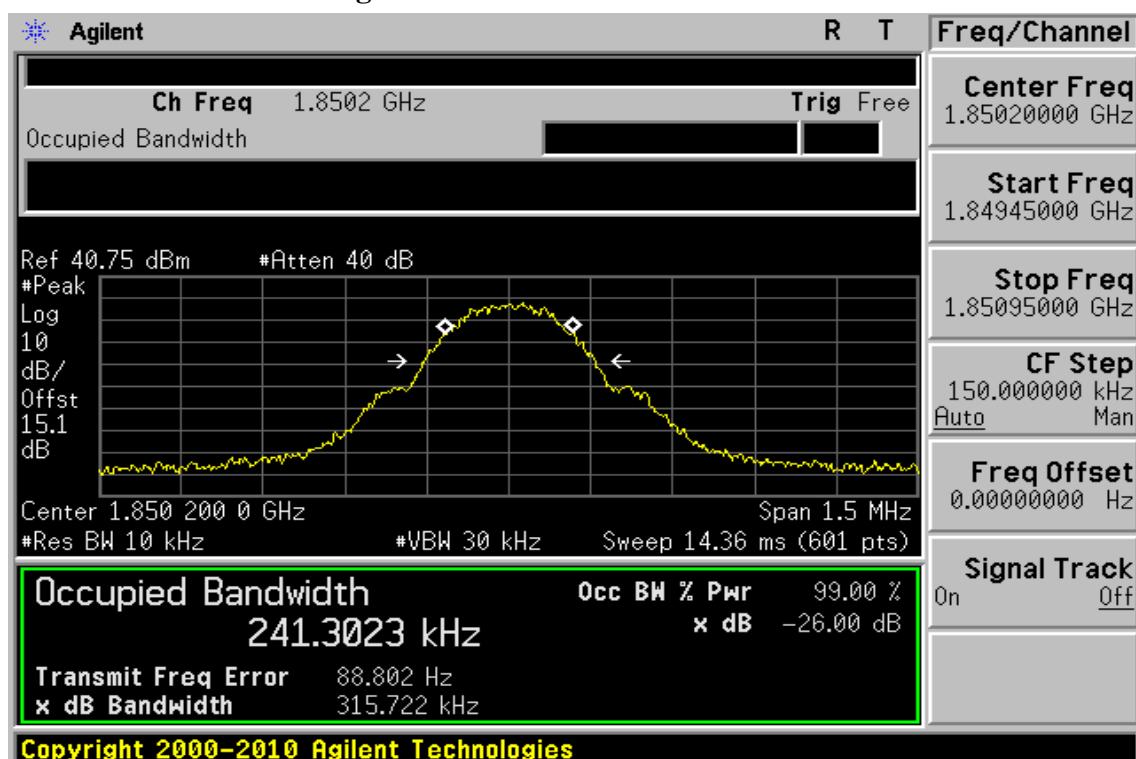


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

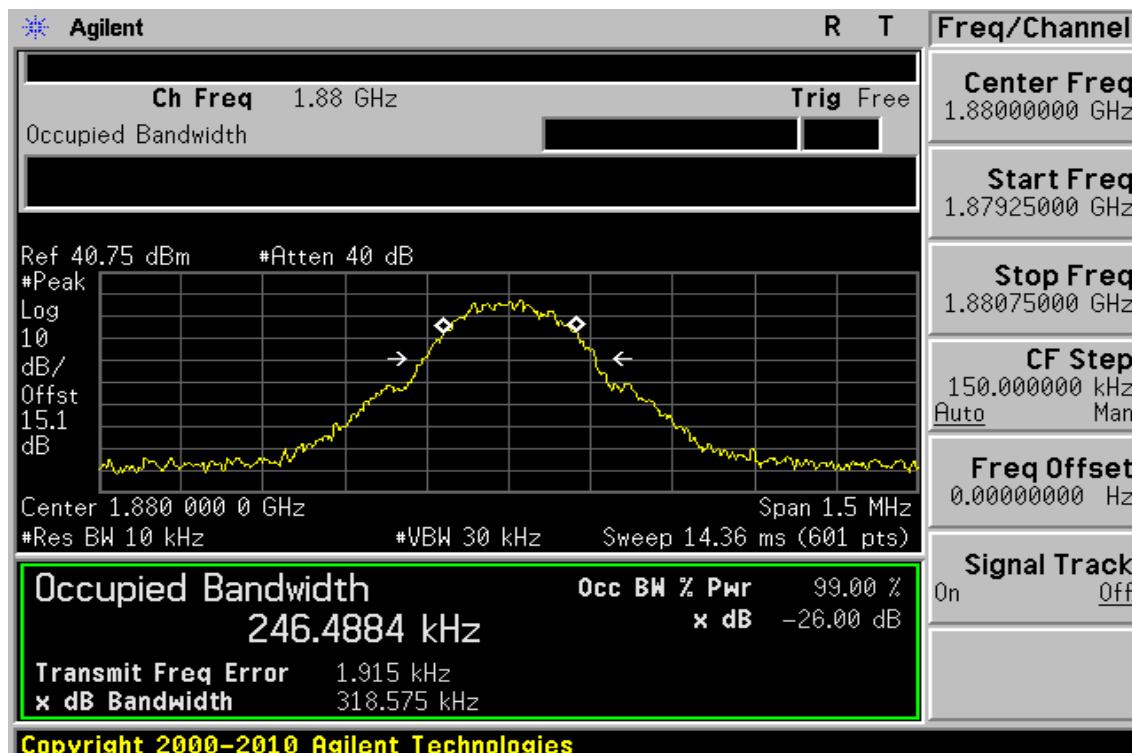
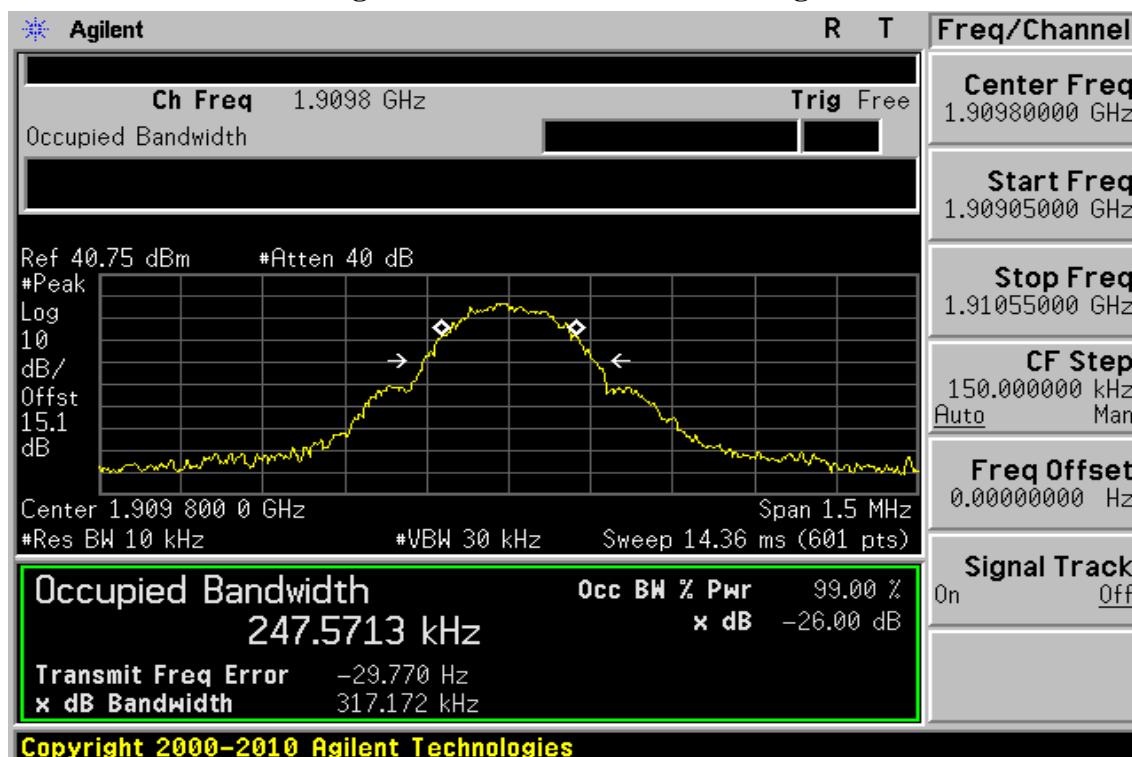


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

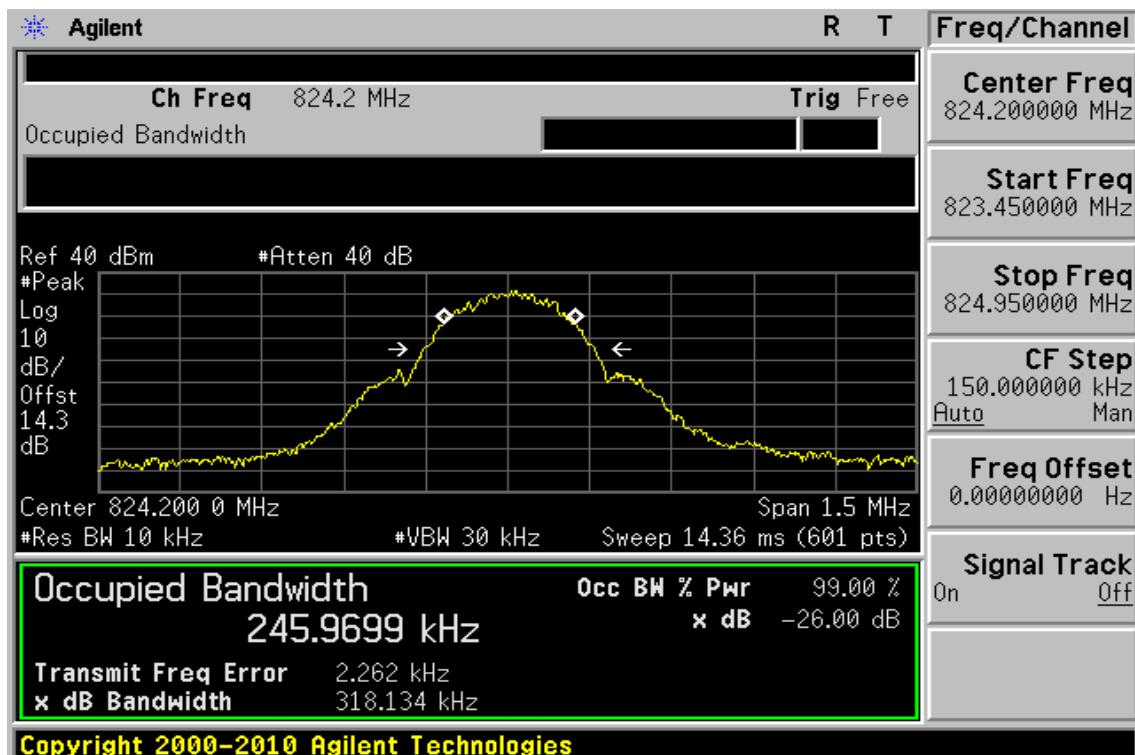
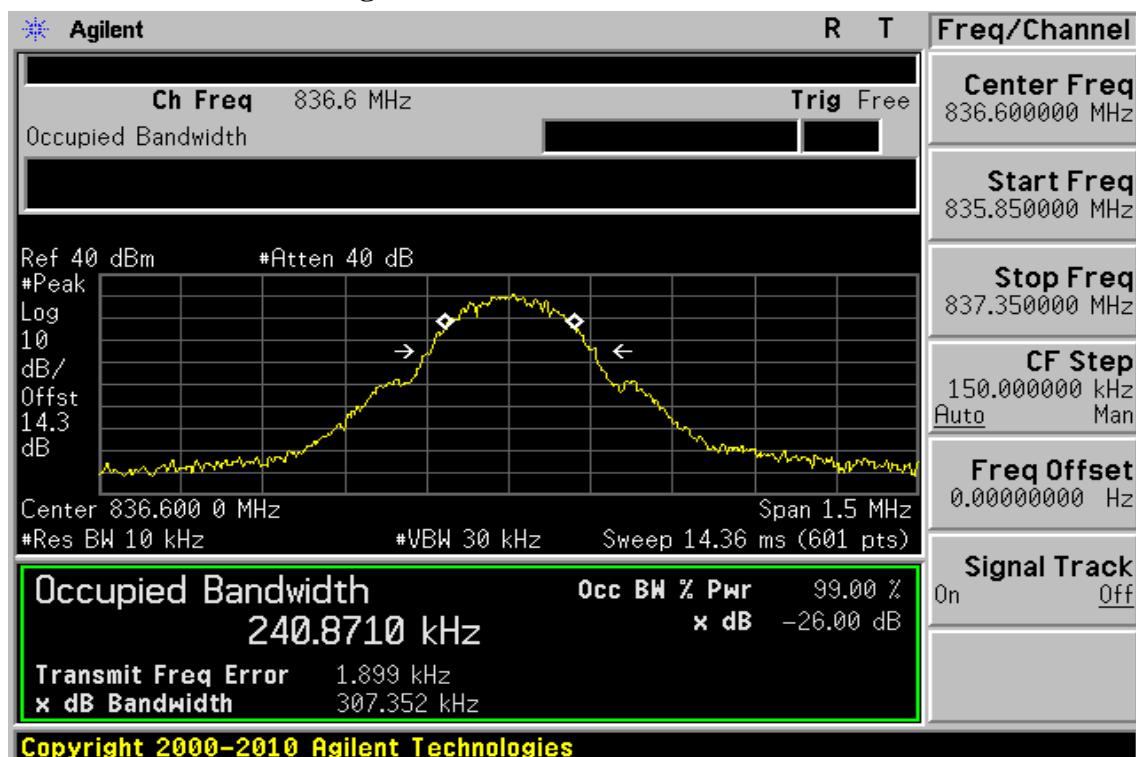


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

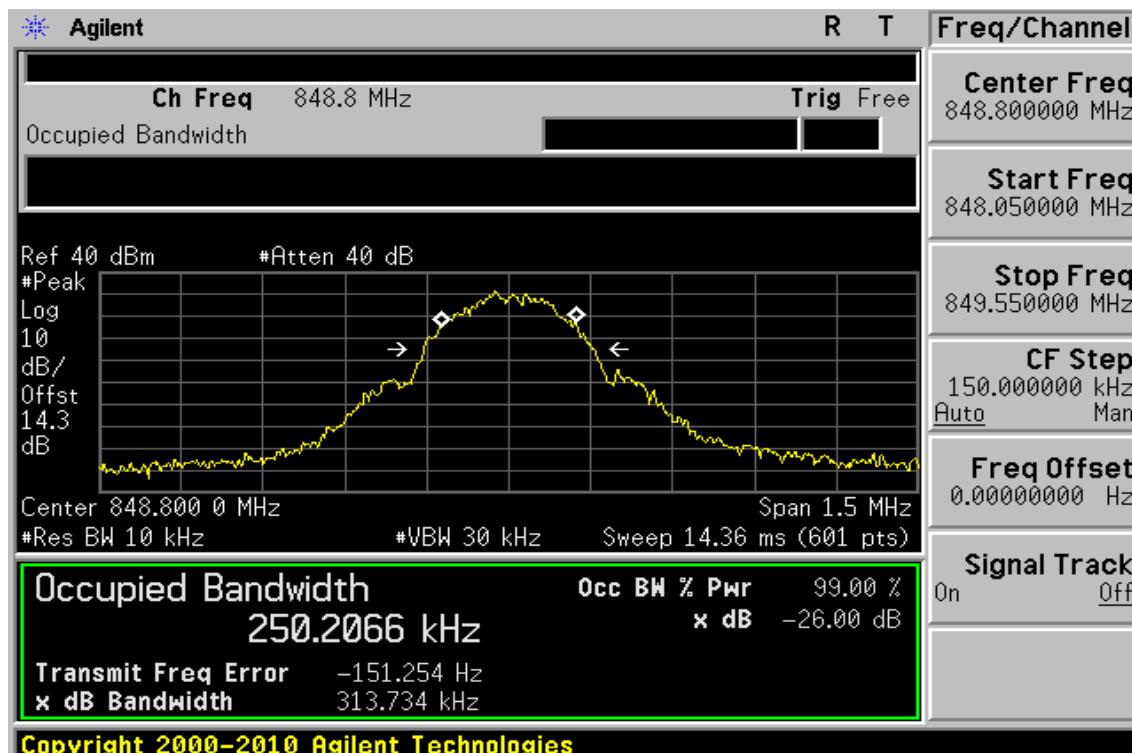
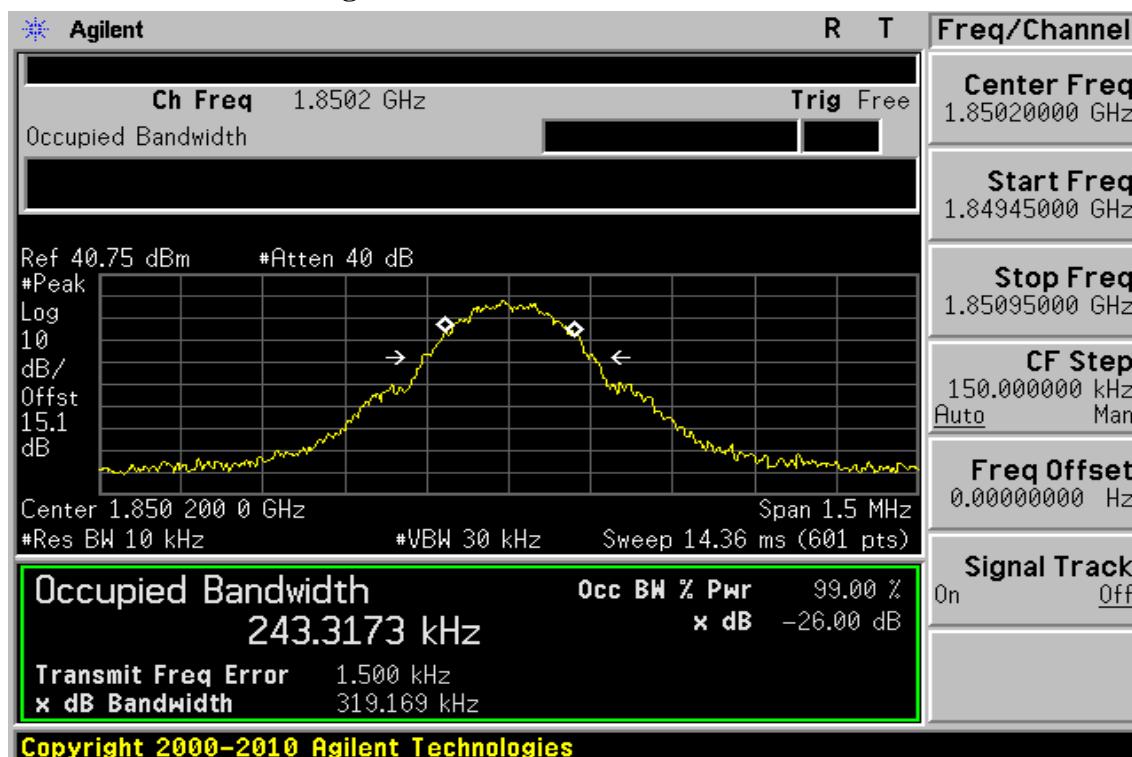


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11 GPRS 1900 Channel Mid

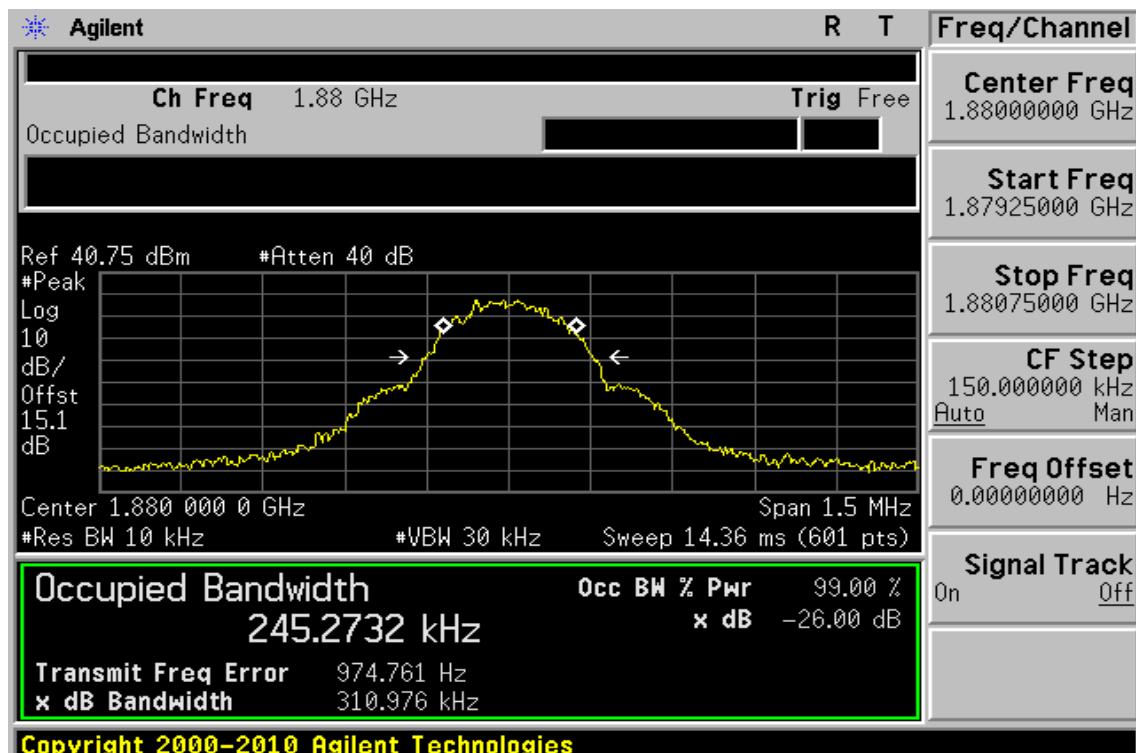
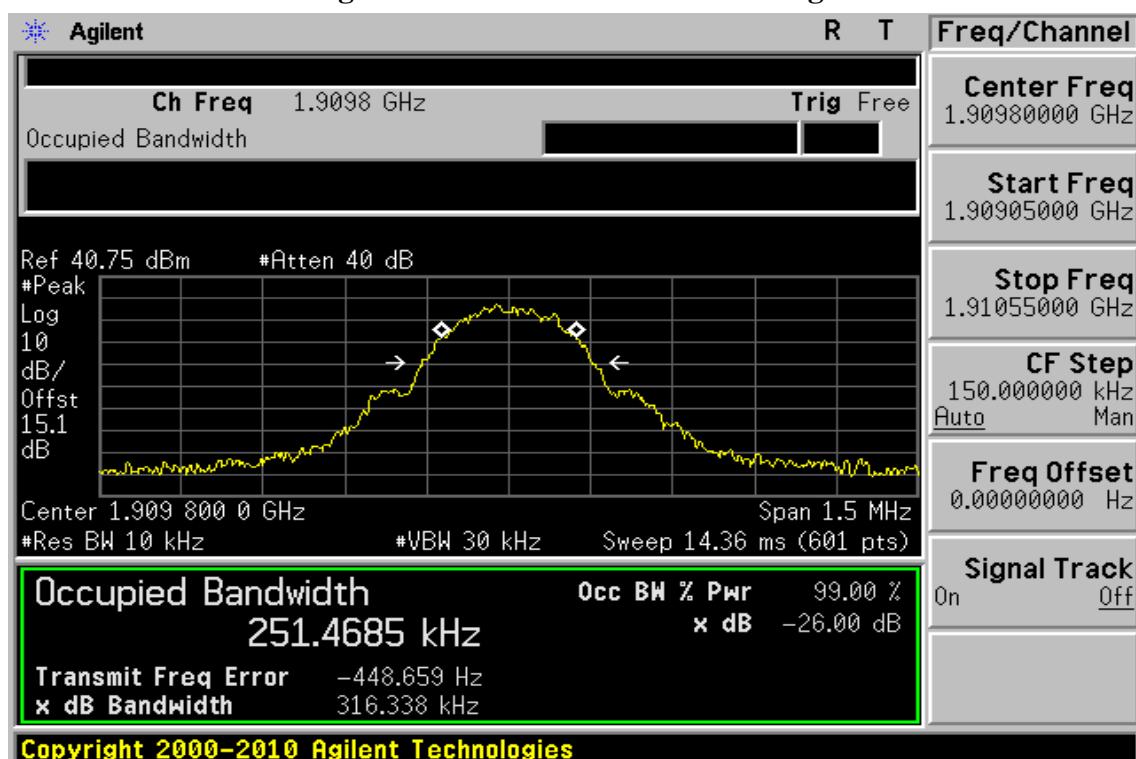


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: EDGE 850 Channel Low

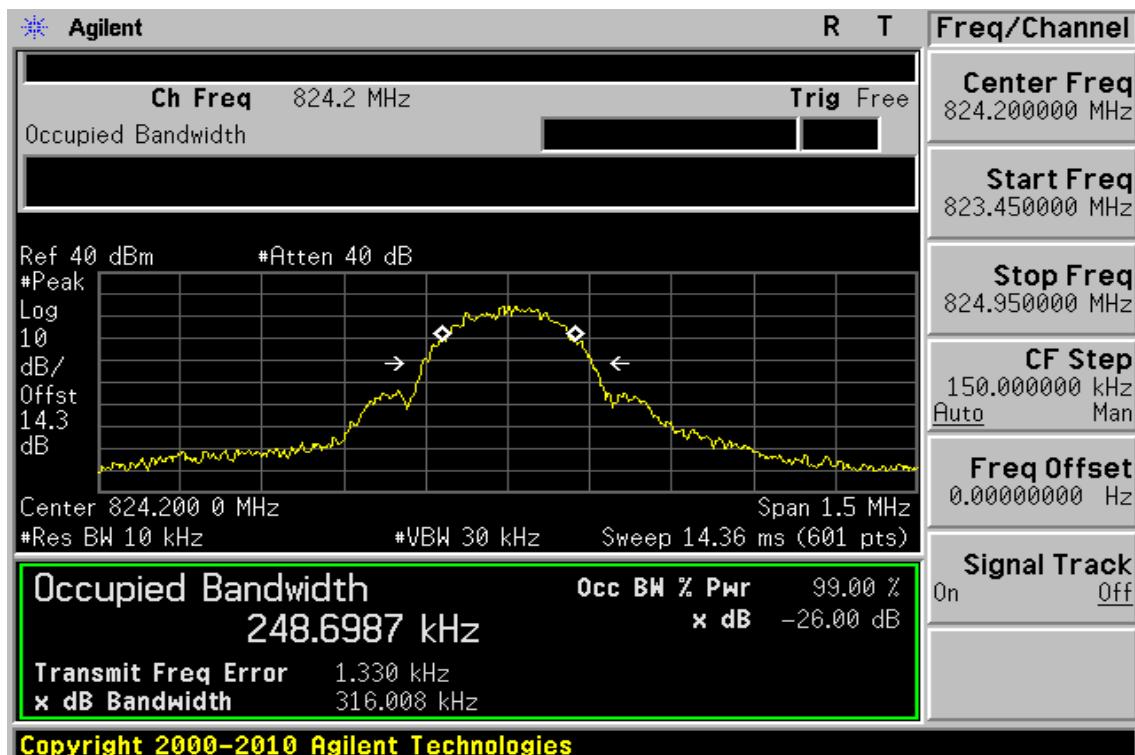
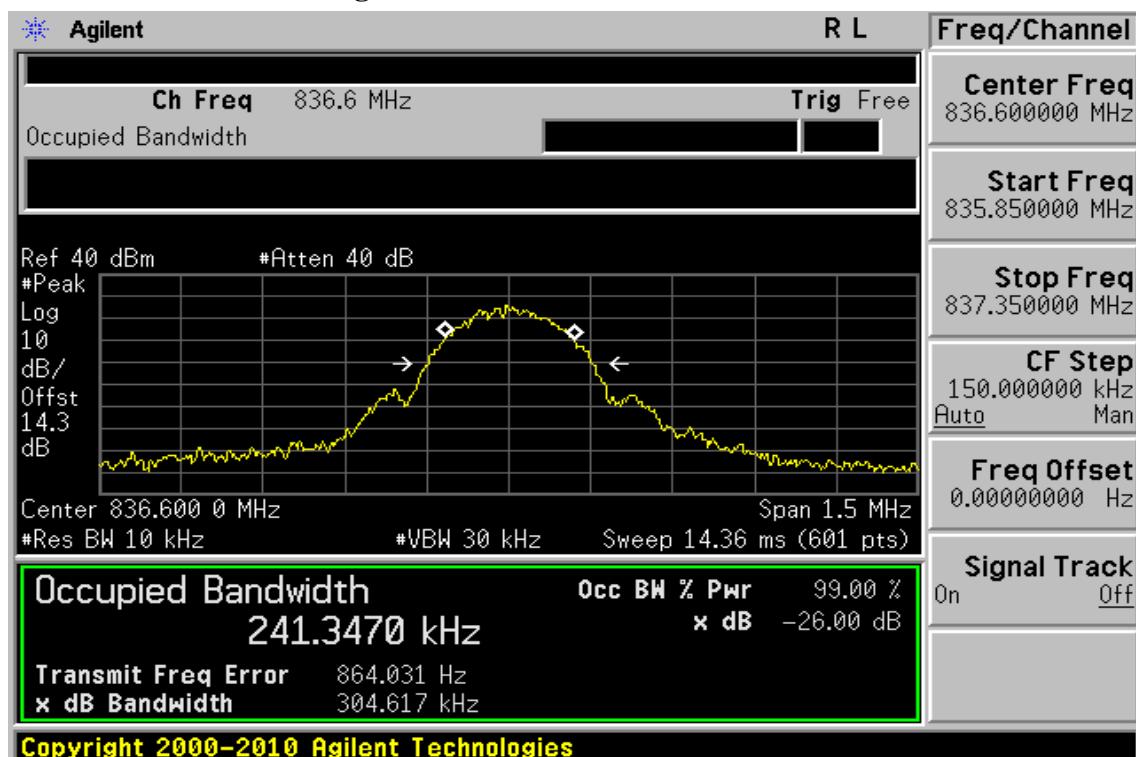


Figure 8-14 EDGE 850 Channel Mid



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Figure 8-15: EDGE 850 Channel High

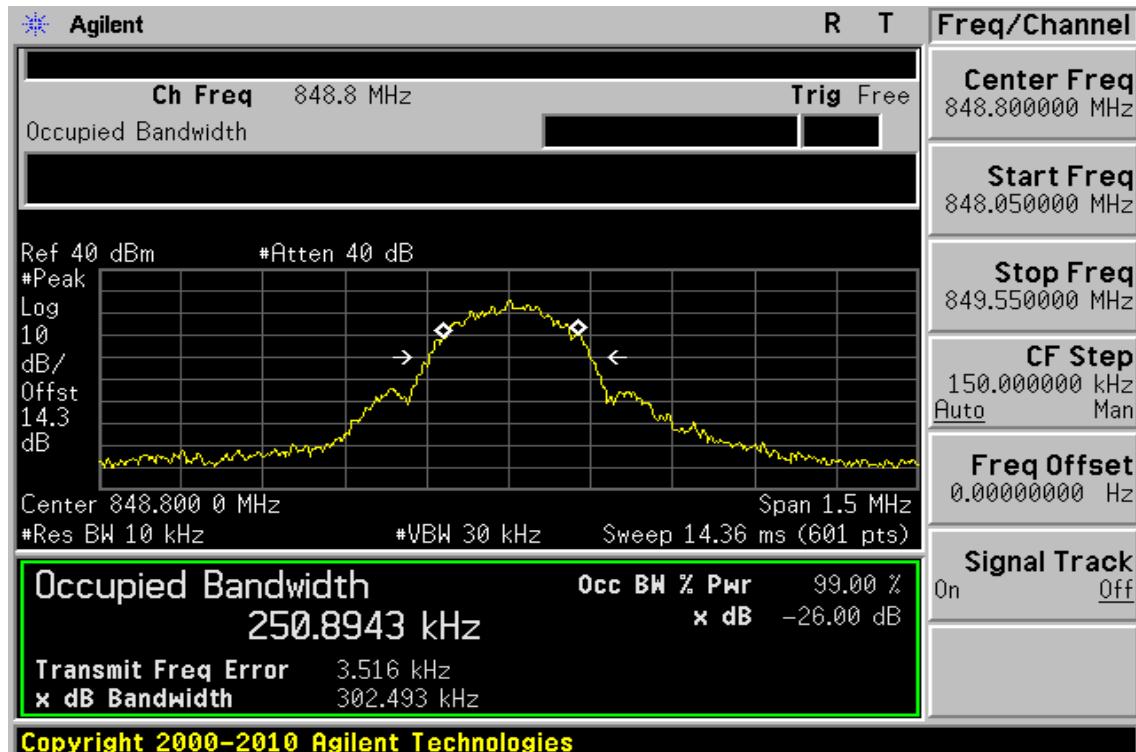
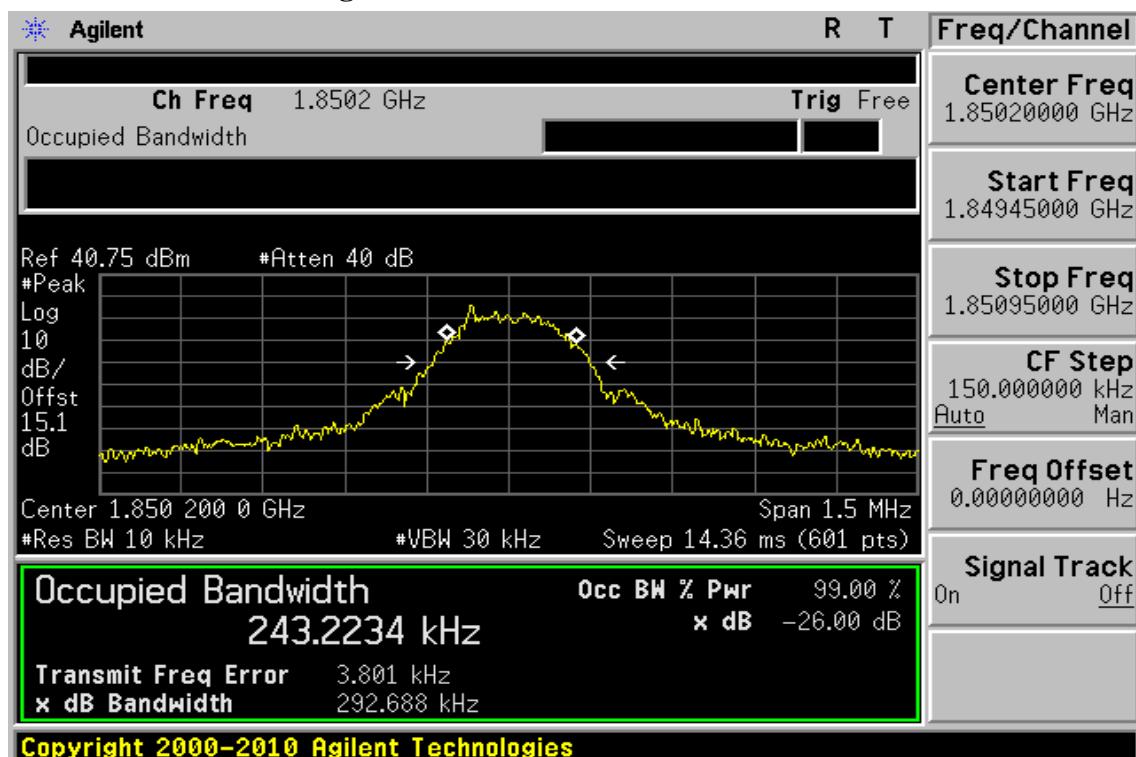


Figure 8-16: EDGE 1900 Channel Low



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Figure 8-17 EDGE 1900 Channel Mid

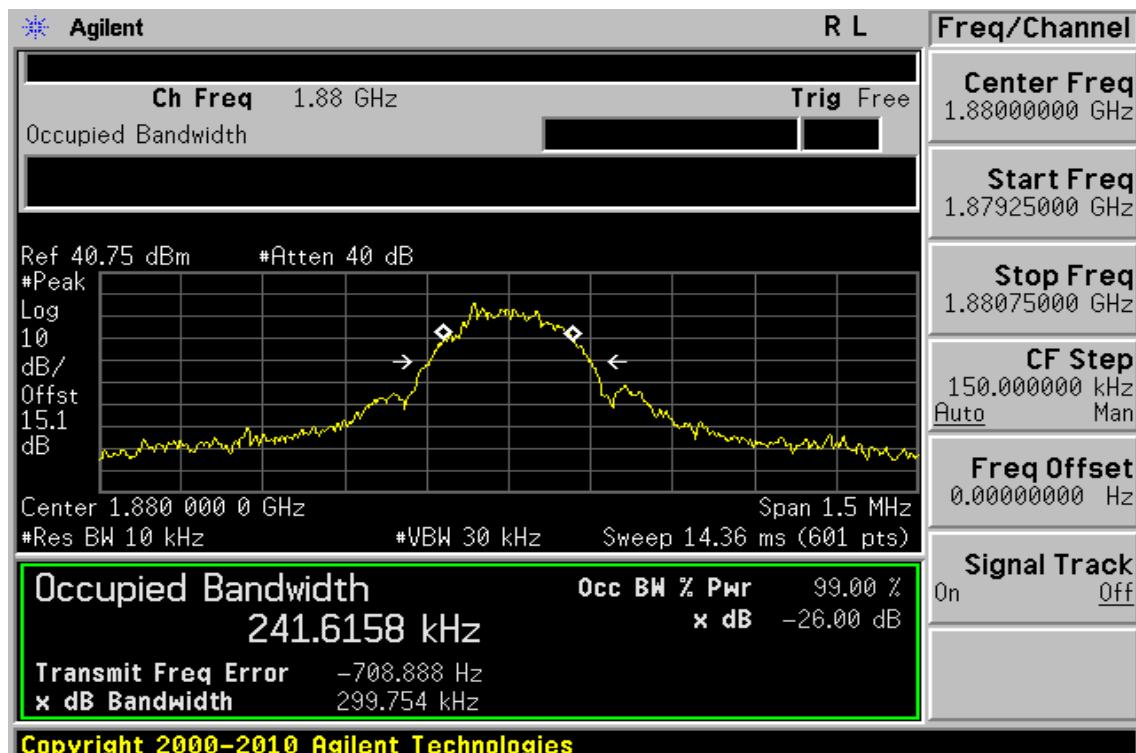
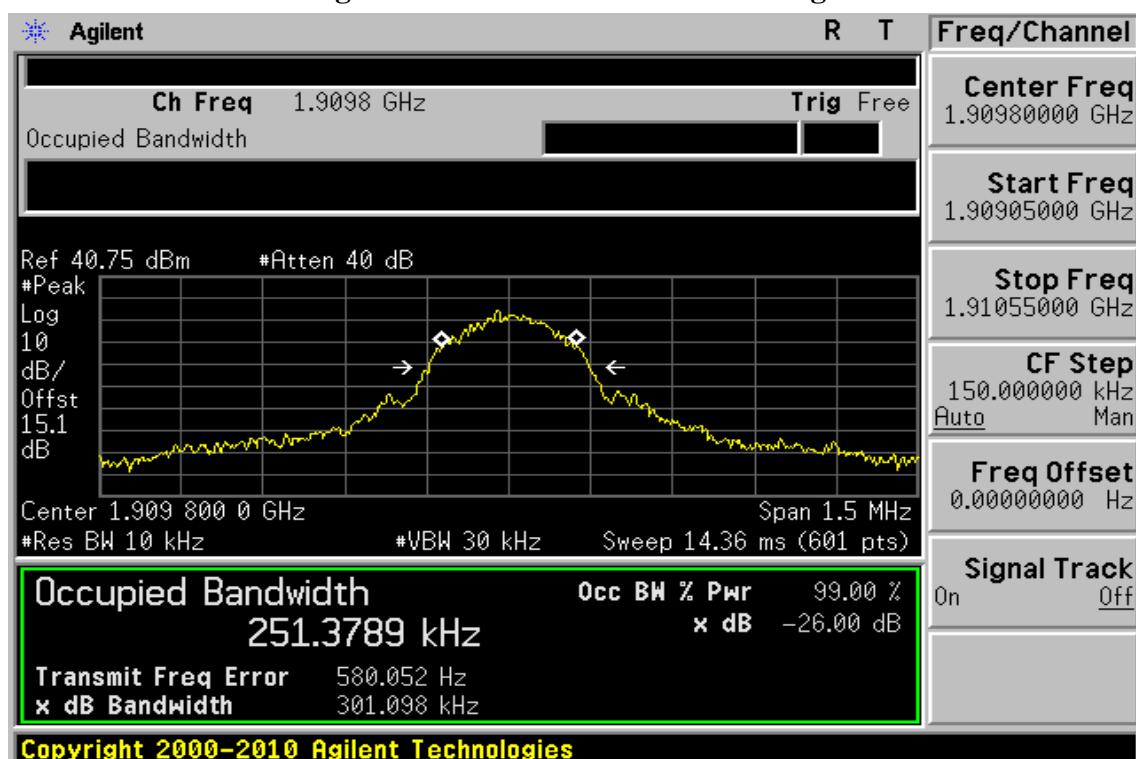


Figure 8-18: EDGE 1900 Channel High



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Figure 8-19: WCDMA Band II Channel Low

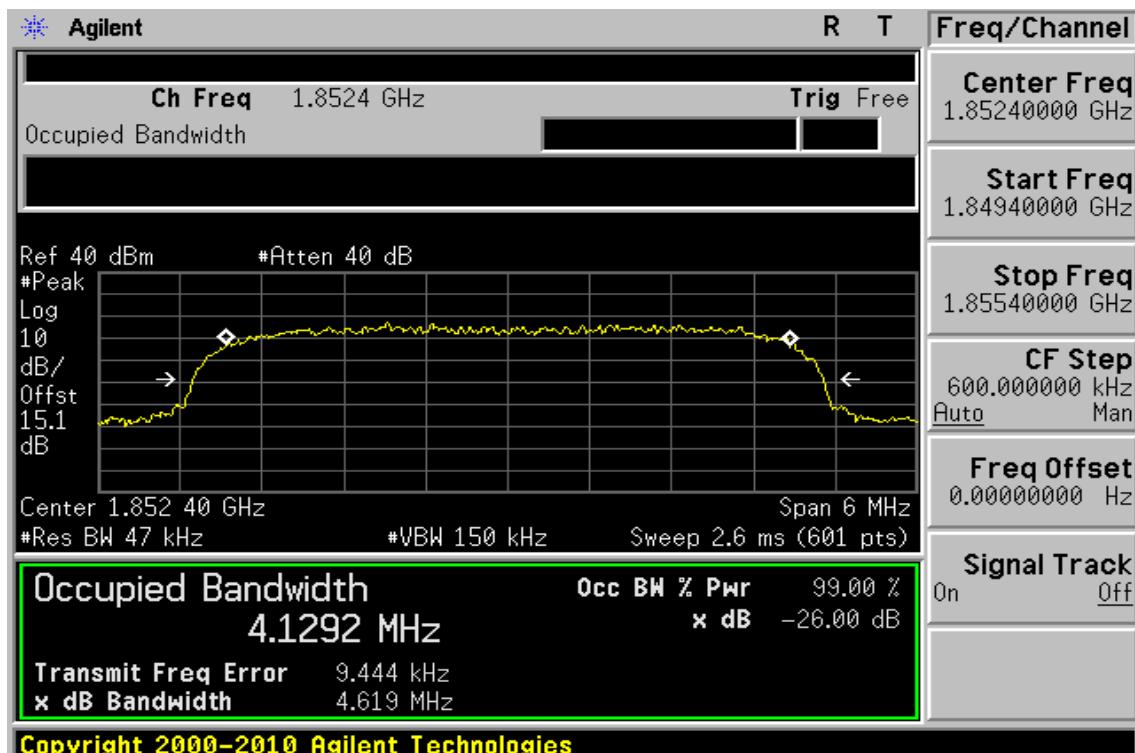
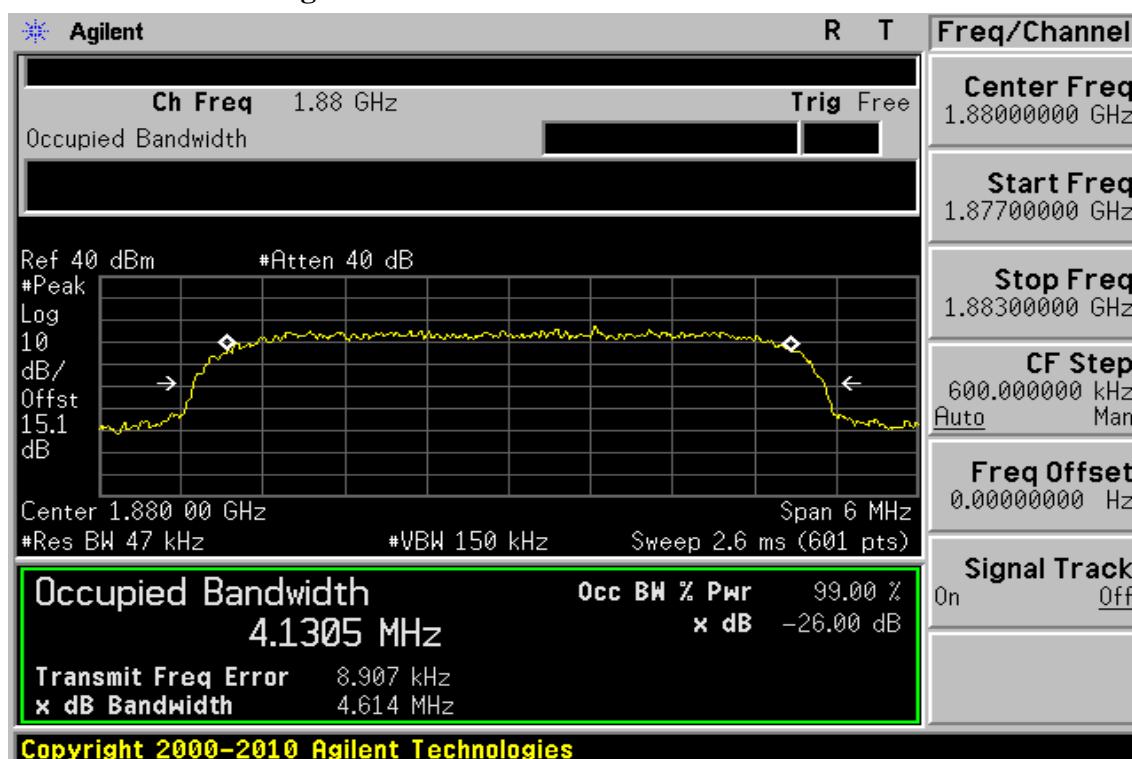


Figure 8-20: WCDMA Band II Channel Mid



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Figure 8-21: WCDMA Band II Channel High

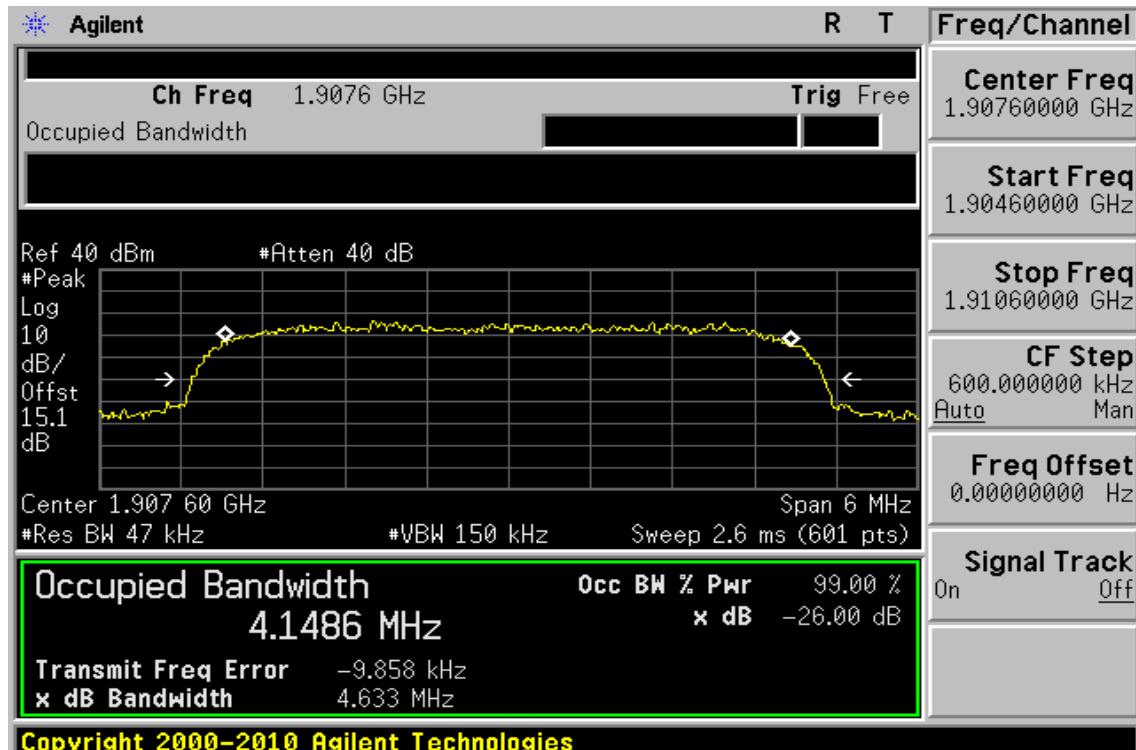
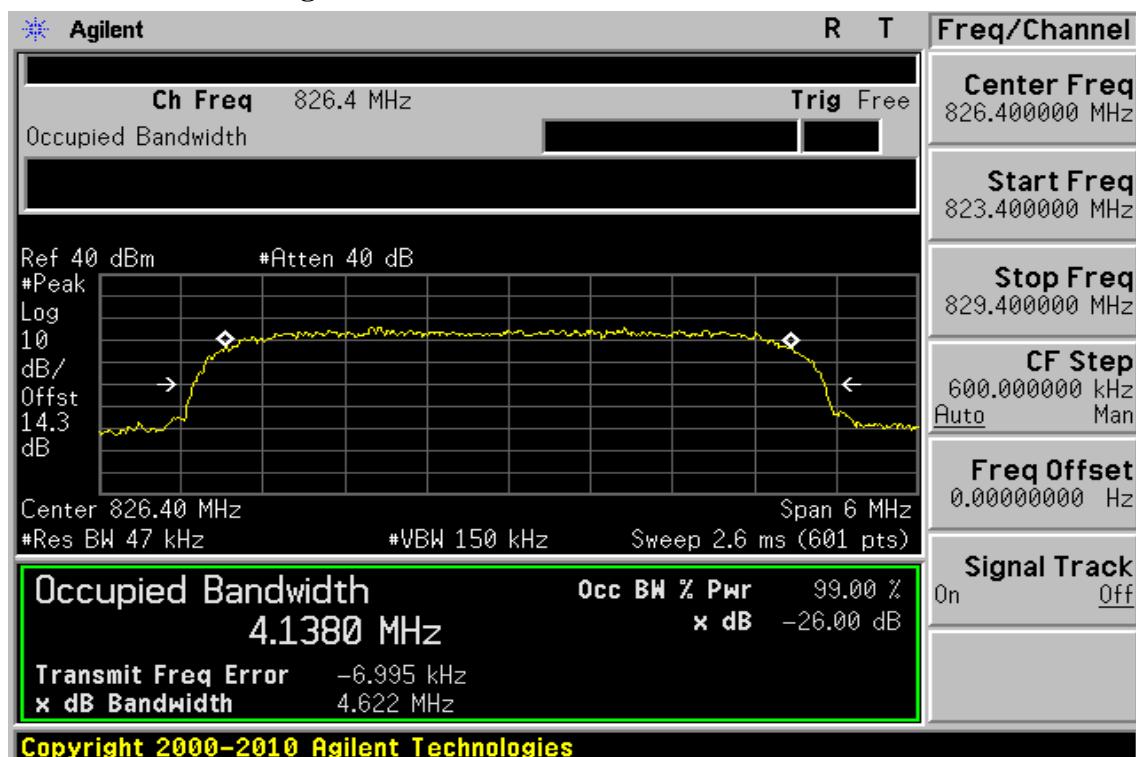


Figure 8-22: WCDMA Band V Channel Low



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Figure 8-23: WCDMA Band V Channel Mid

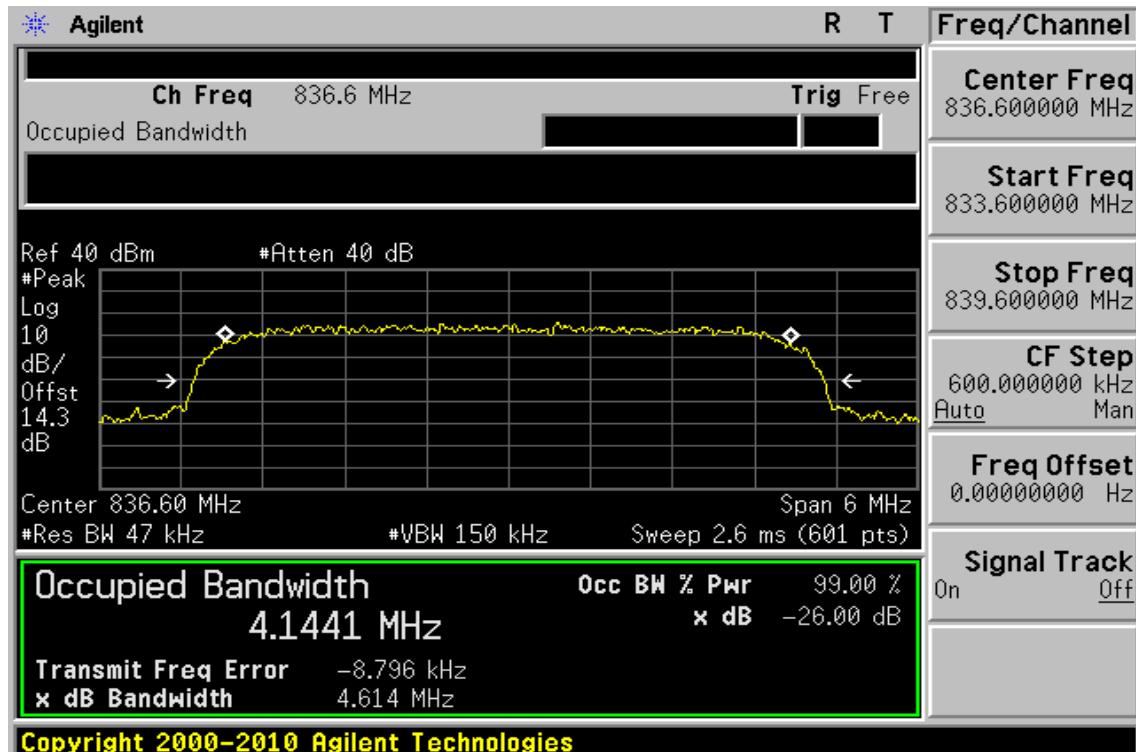
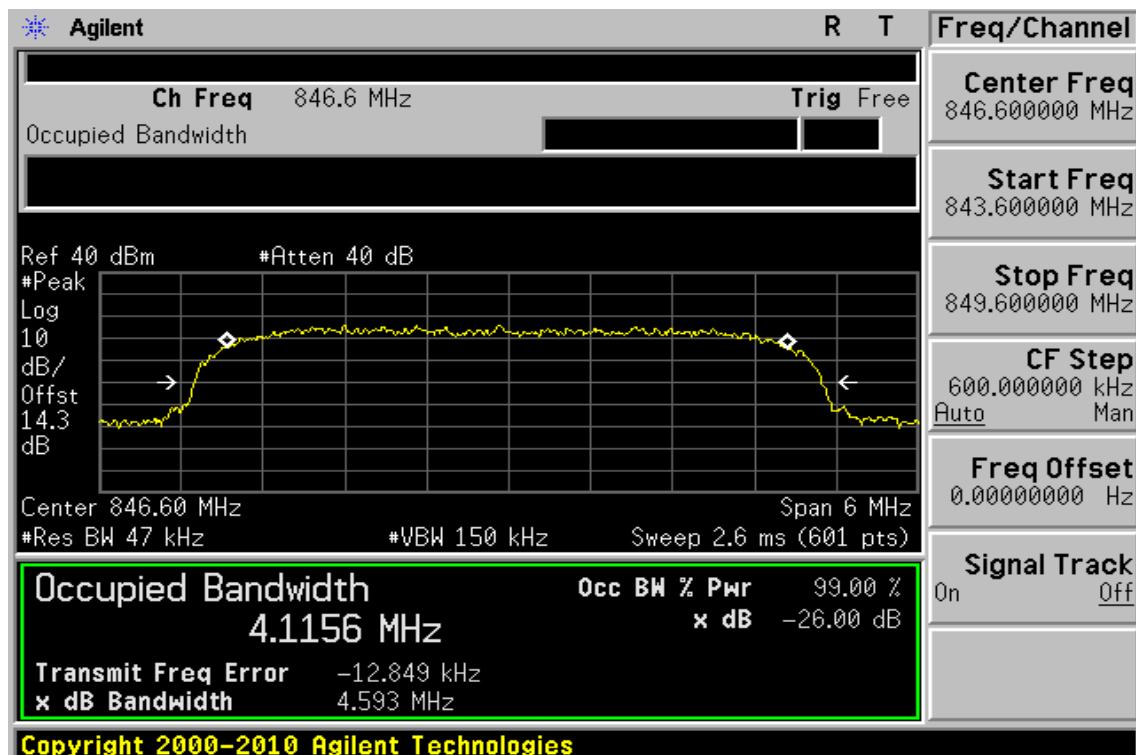


Figure 8-24: WCDMA Band V Channel High



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Figure 8-25: HSDPA Band II Channel Low

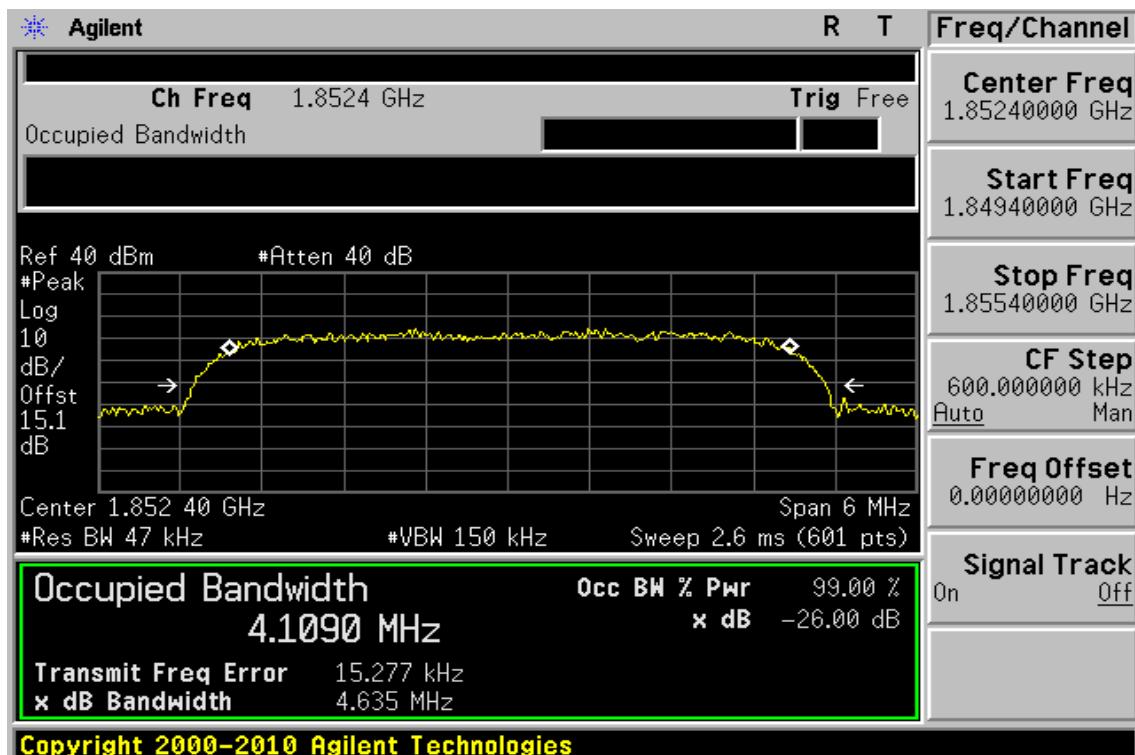
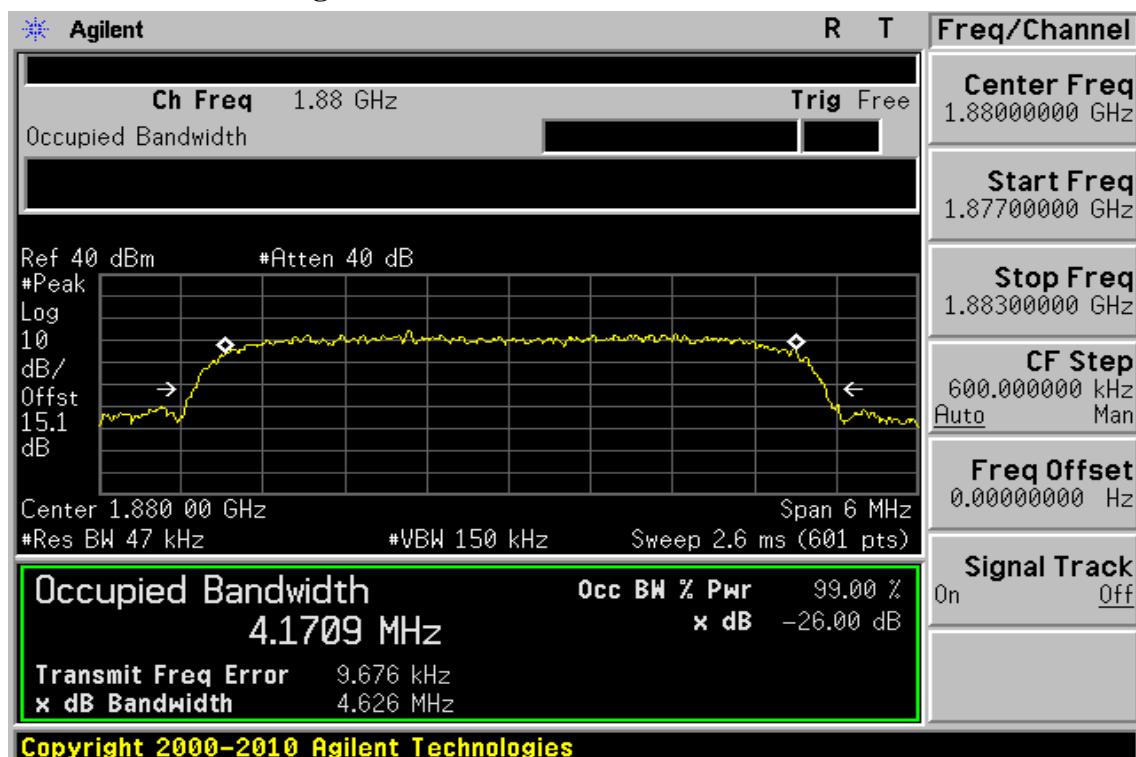


Figure 8-26: HSDPA Band II Channel Mid



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Figure 8-27: HSDPA Band II Channel High

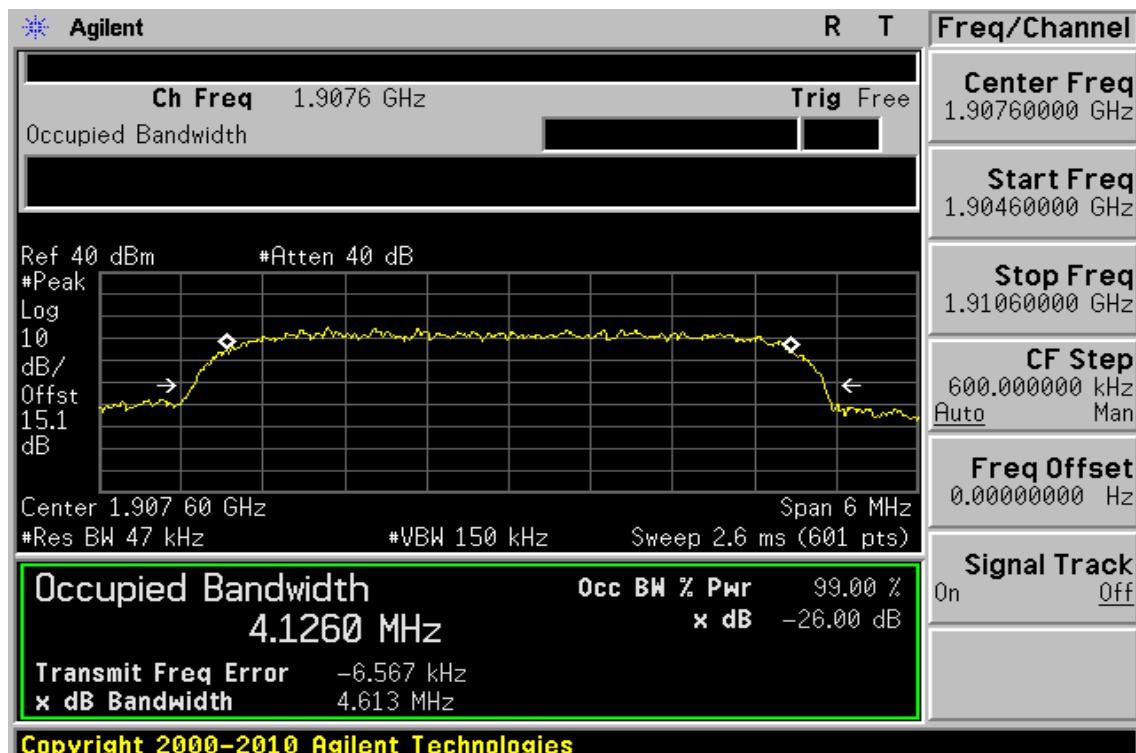
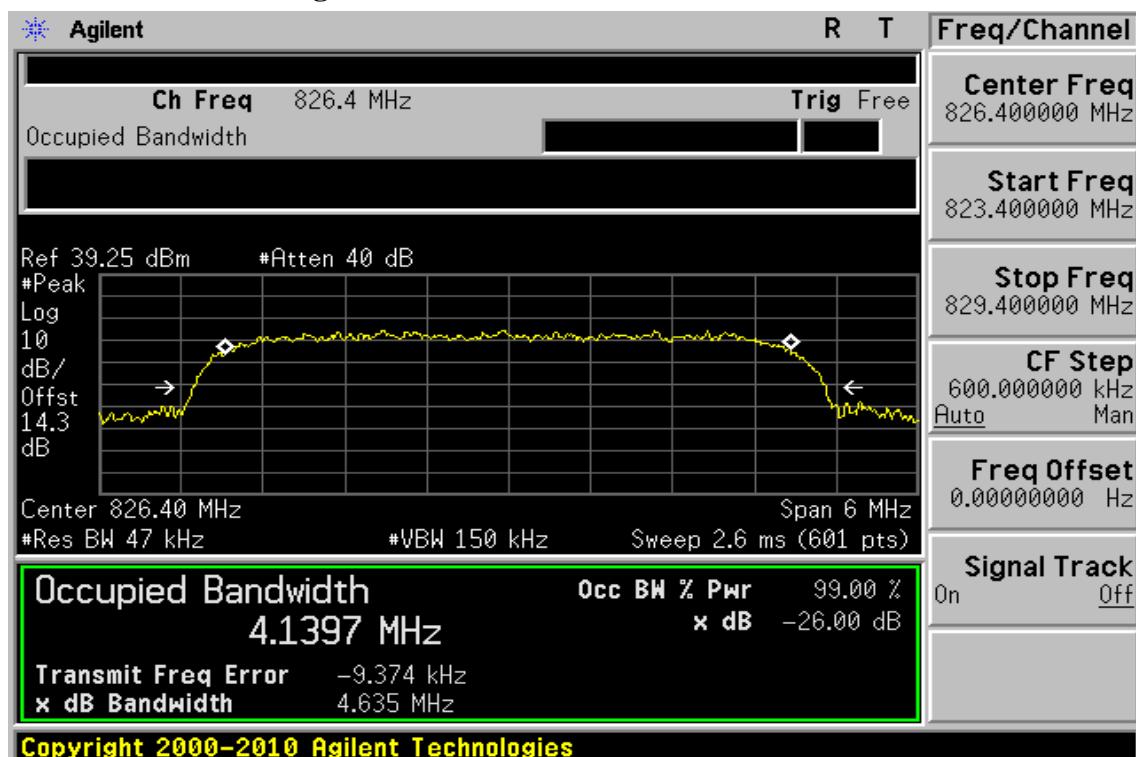


Figure 8-28: HSDPA Band V Channel Low



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Figure 8-29: HSDPA Band V Channel Mid

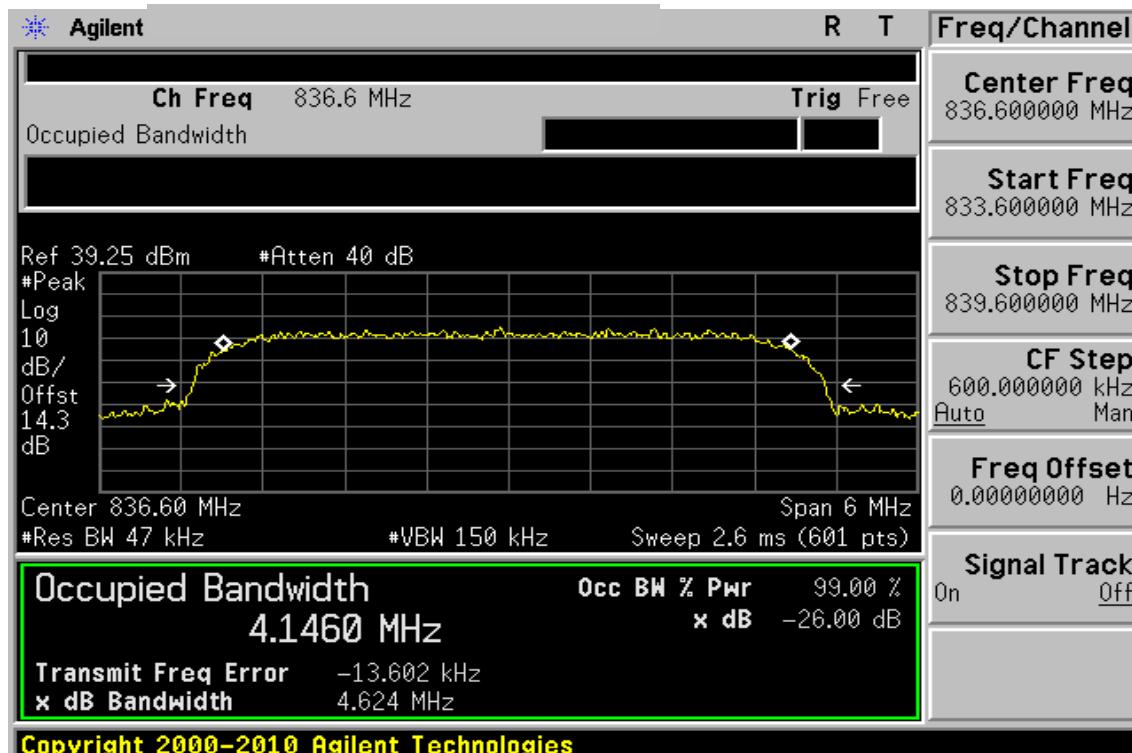
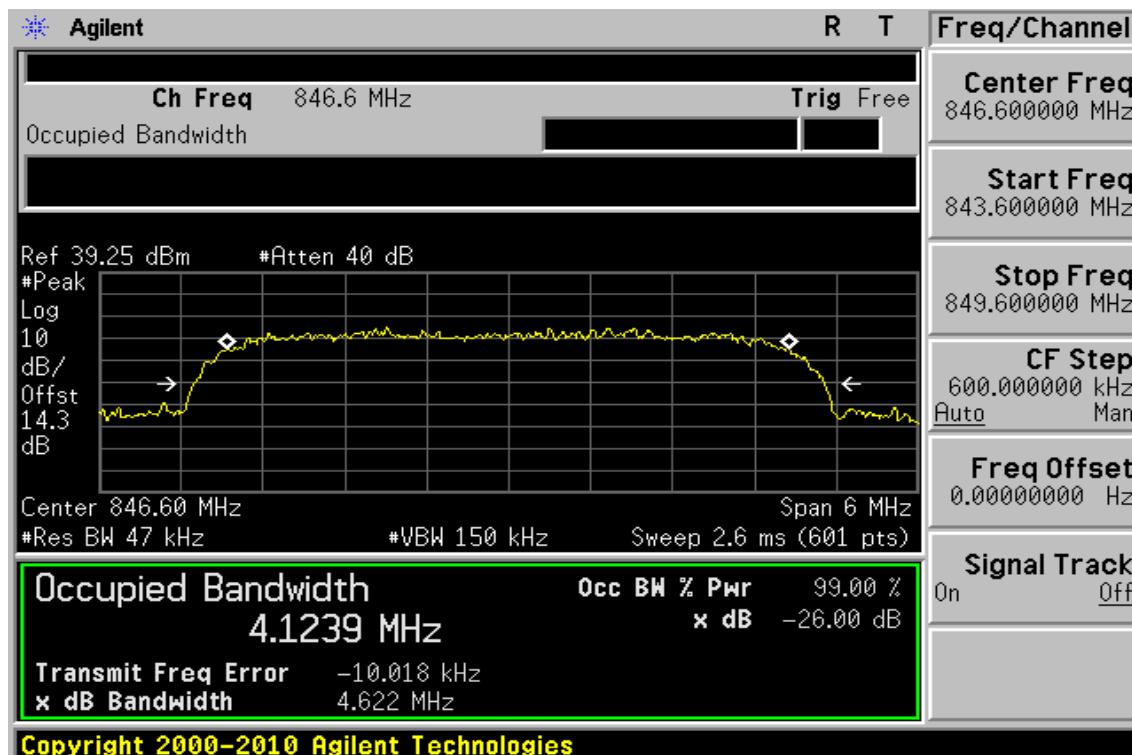


Figure 8-30: HSDPA Band V Channel High



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Figure 8-31: HSUPA Band II Channel Low

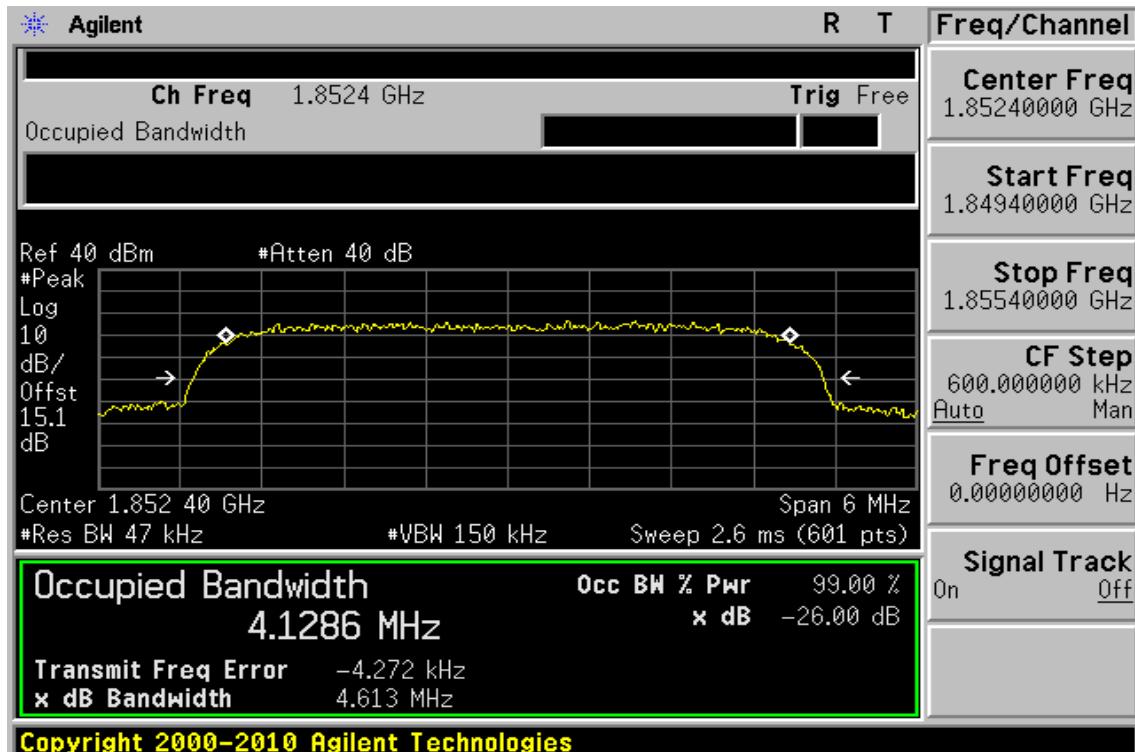
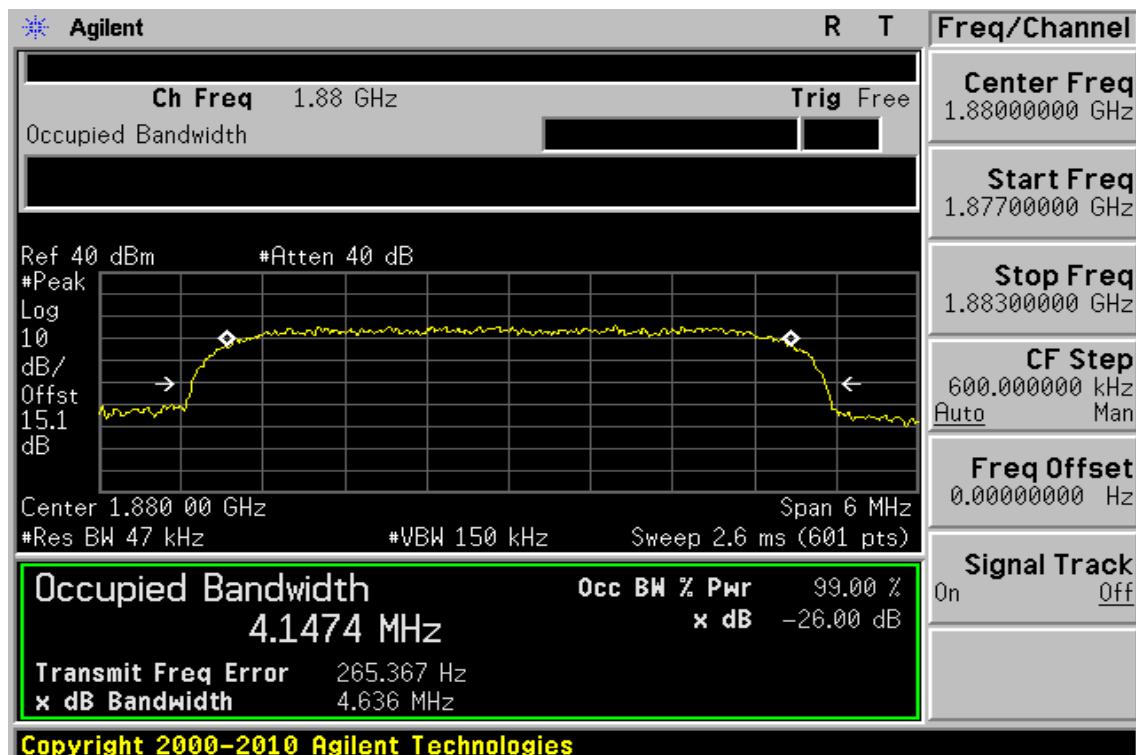


Figure 8-32: HSUPA Band II Channel Mid



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Figure 8-33: HSUPA Band II Channel High

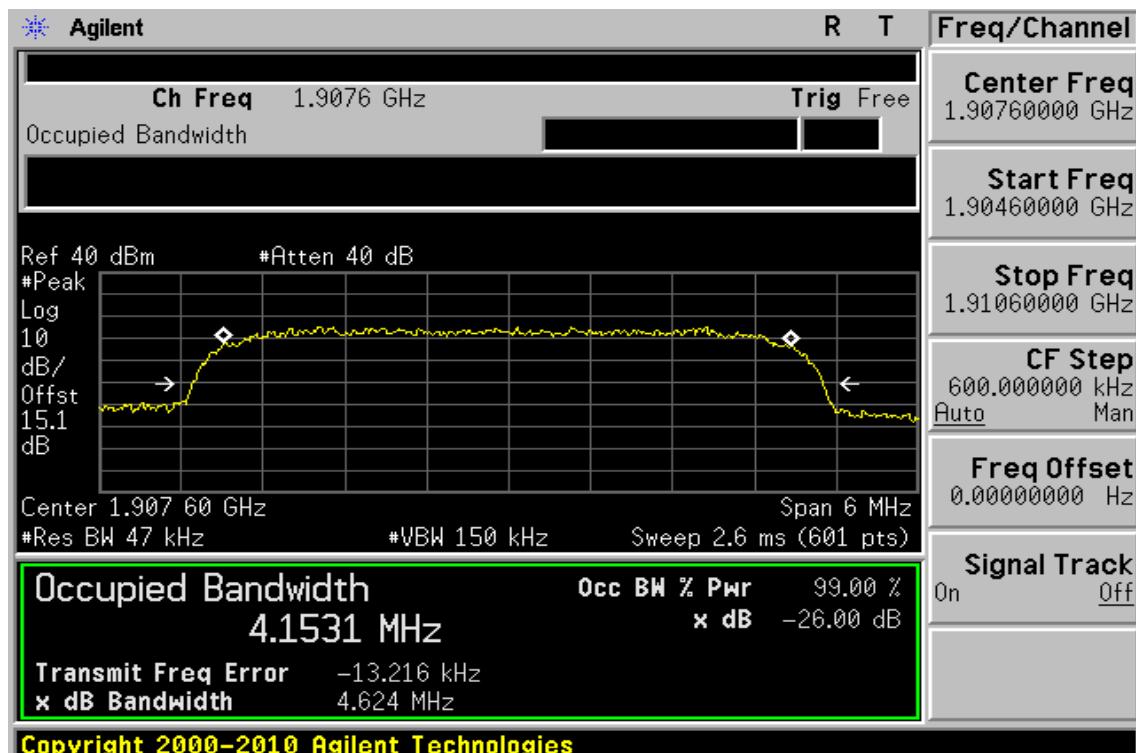
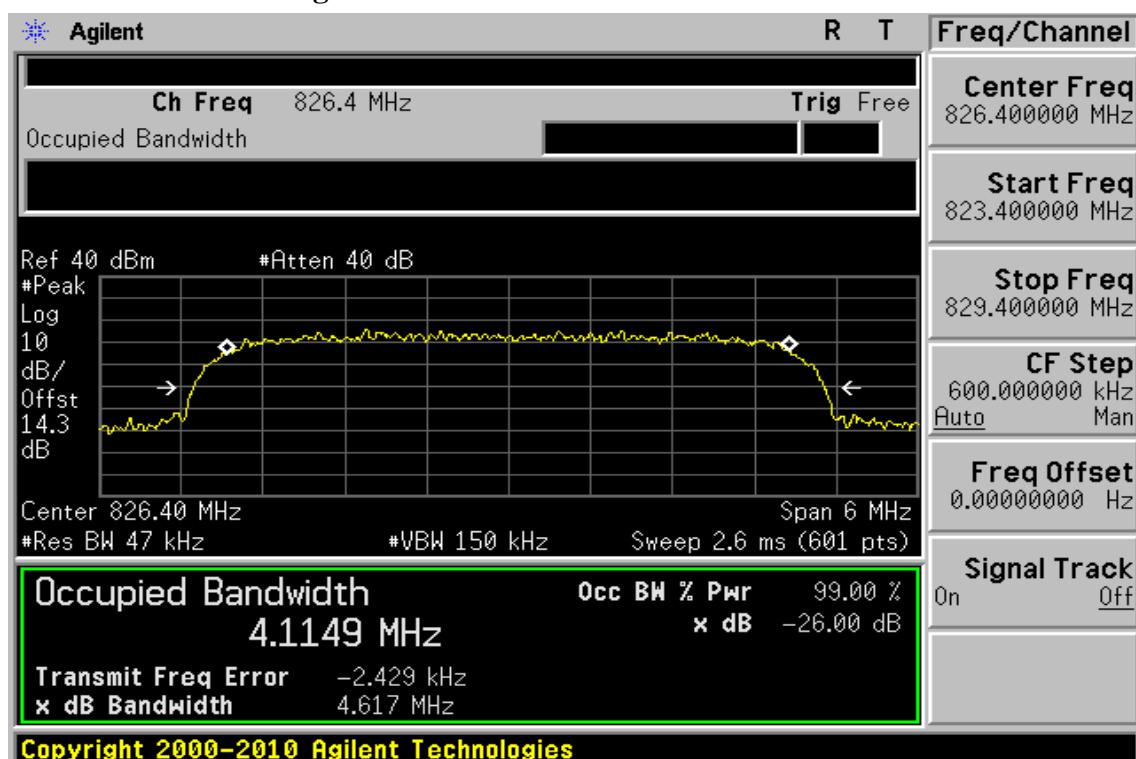


Figure 8-34: HSUPA Band V Channel Low



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Figure 8-35: HSUPA Band V Channel Mid

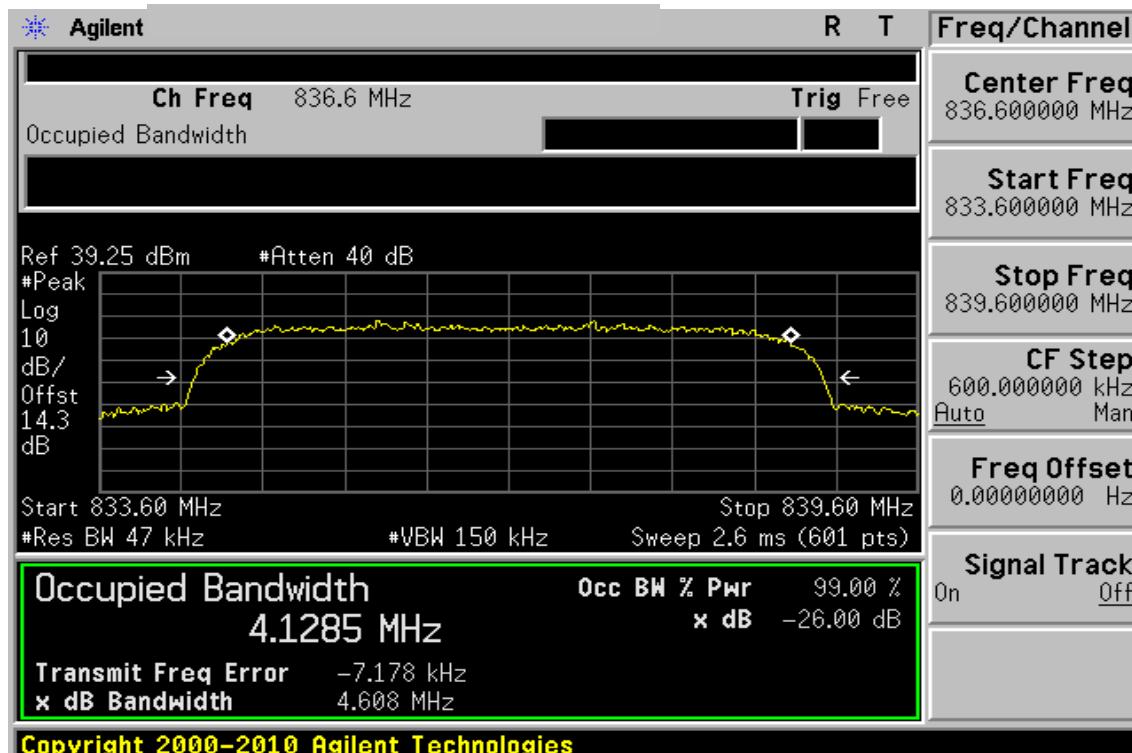
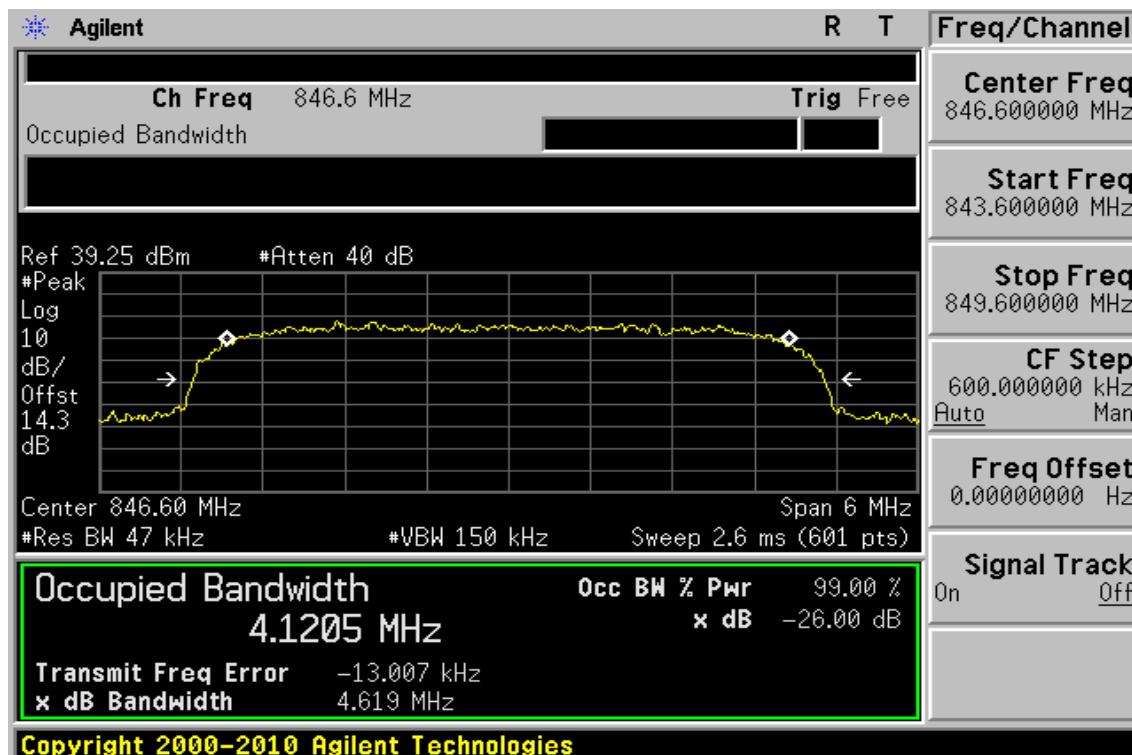


Figure 8-36: HSUPA Band V Channel High



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

According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

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

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

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

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

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

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According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

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

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

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

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

6.5.2 Out-of-Sub-band Emissions

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

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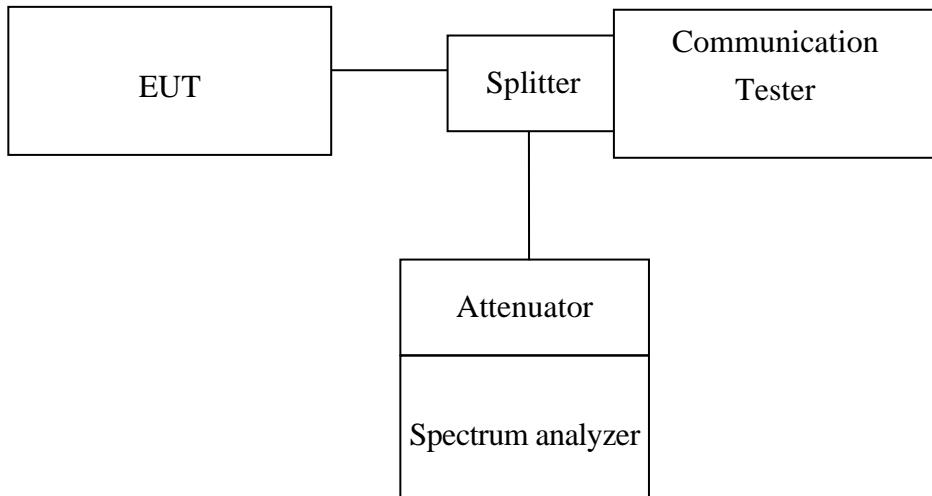
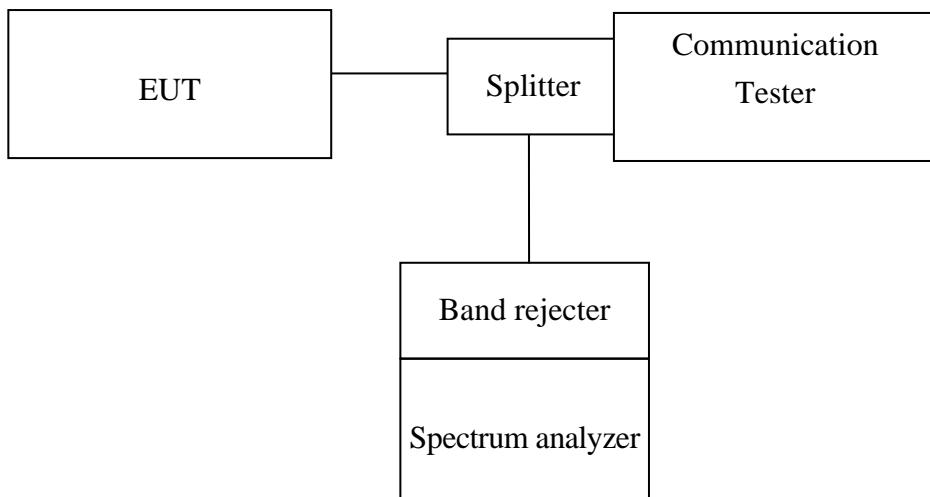
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9.2. Test SET-UP:**Out of band emission****Band Edge**

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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.

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

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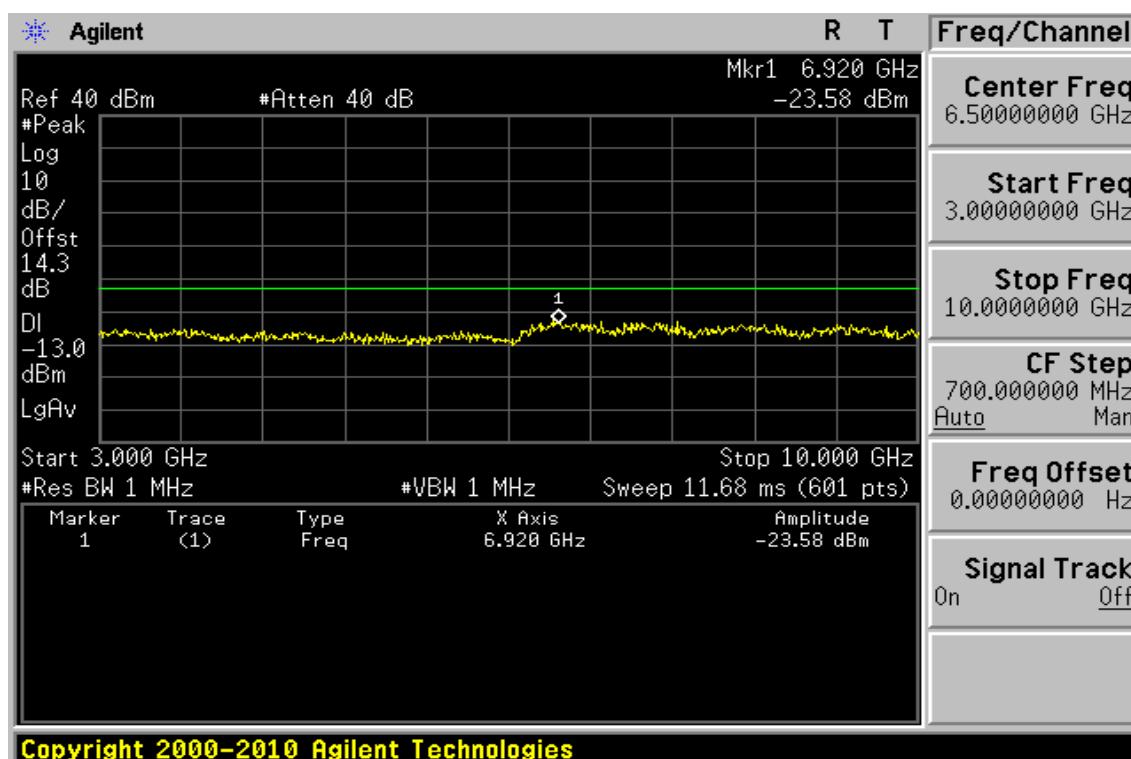
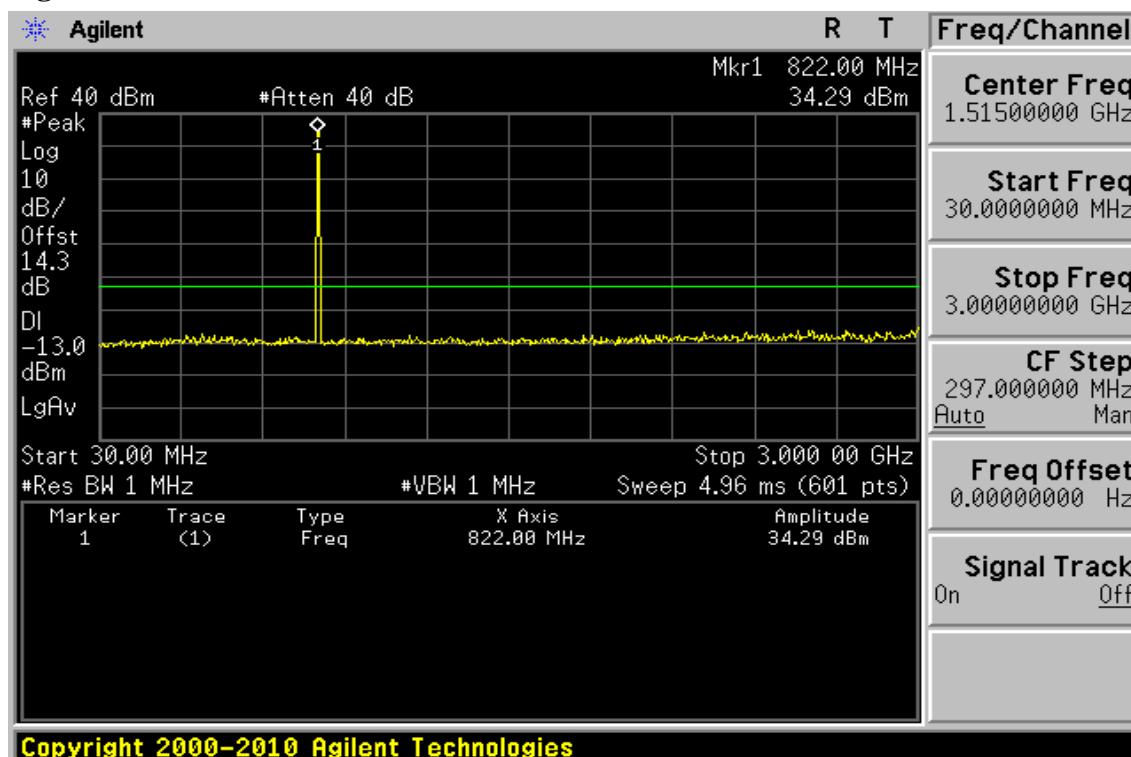
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9.5. Measurement Result:

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

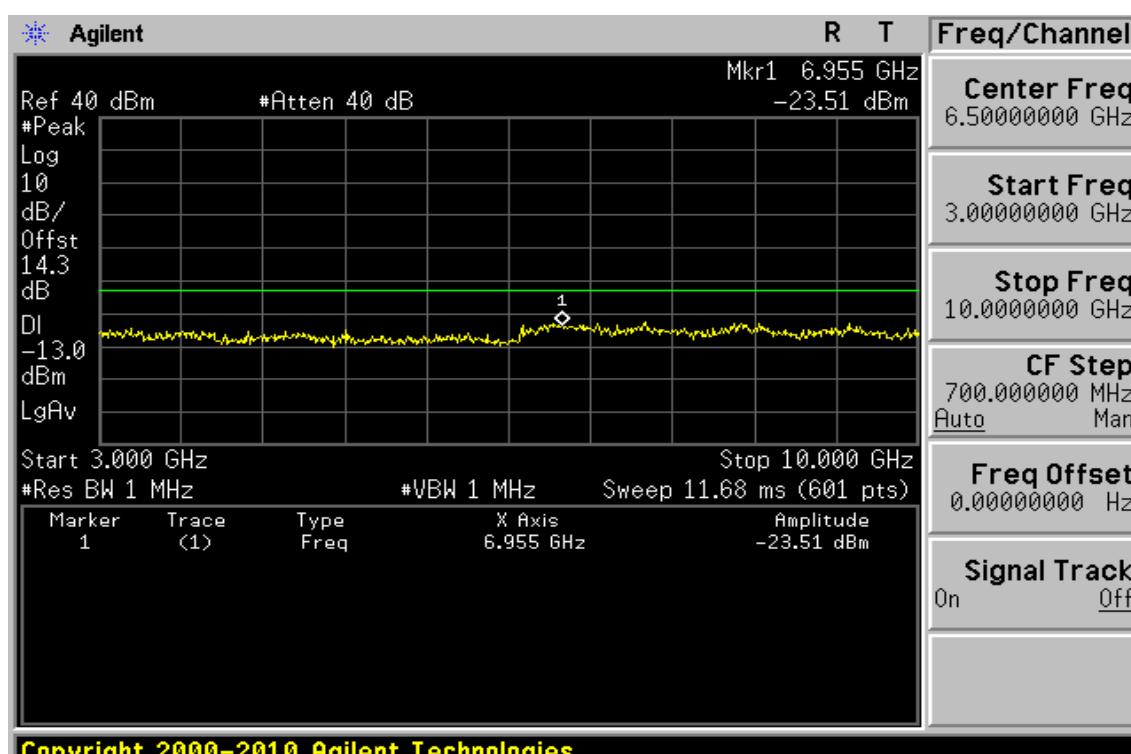
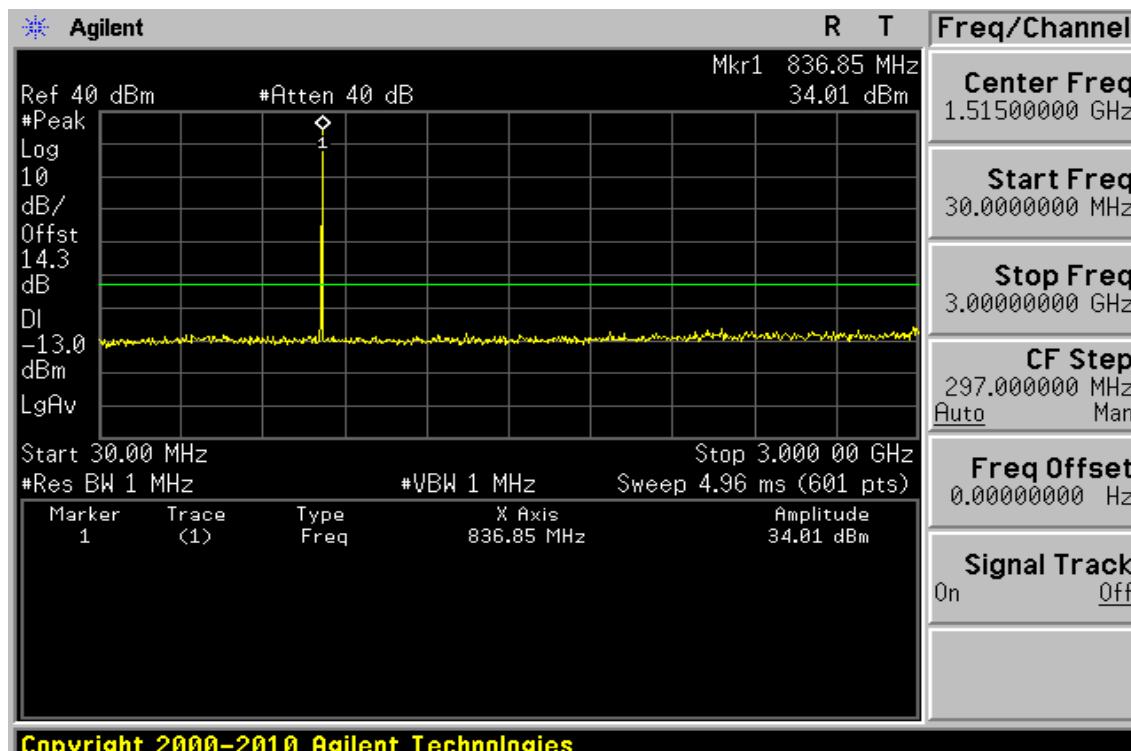


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Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid

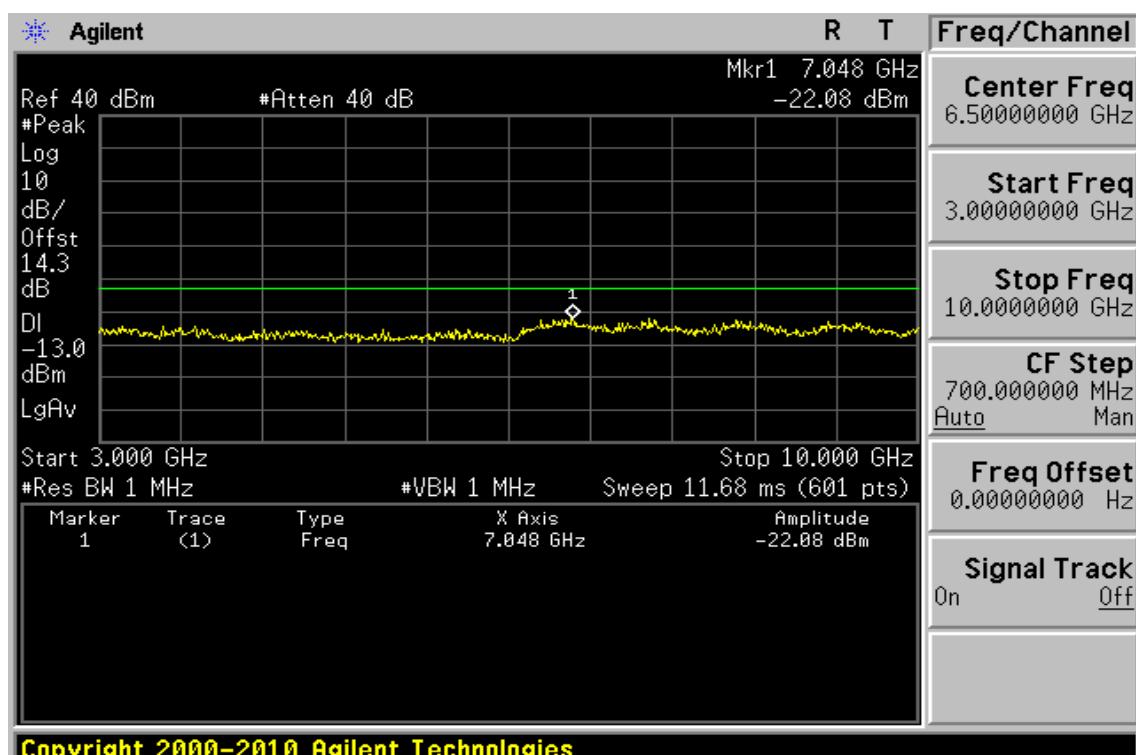
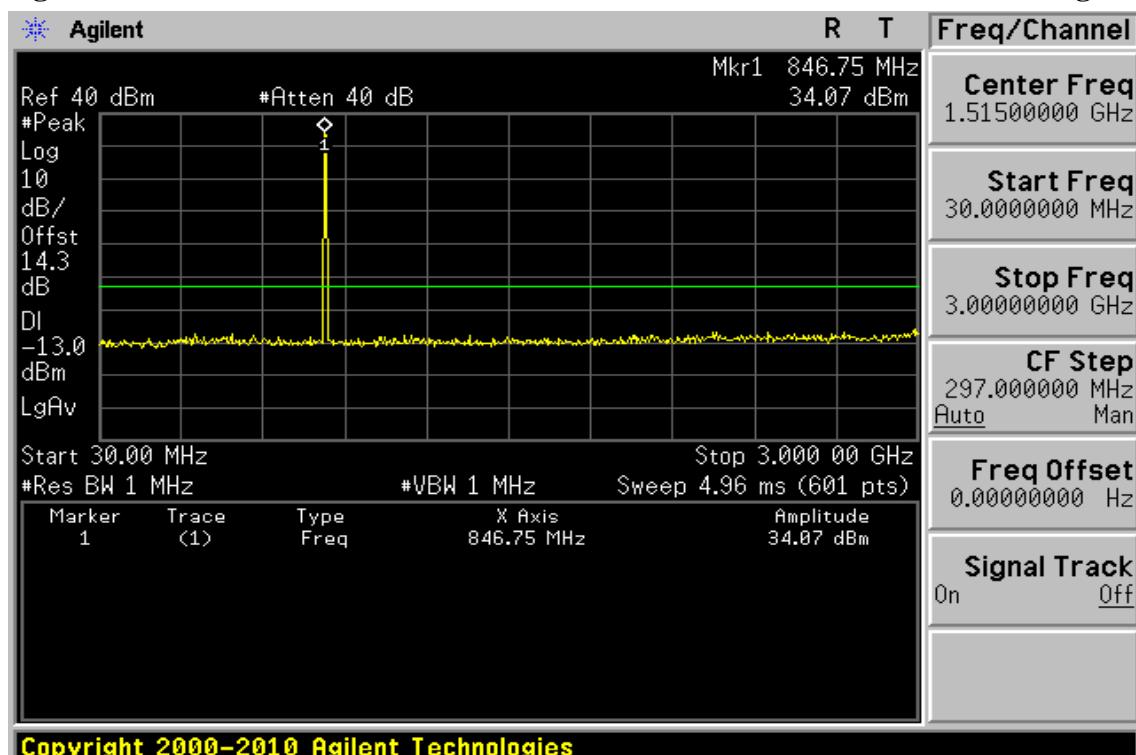


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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest



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

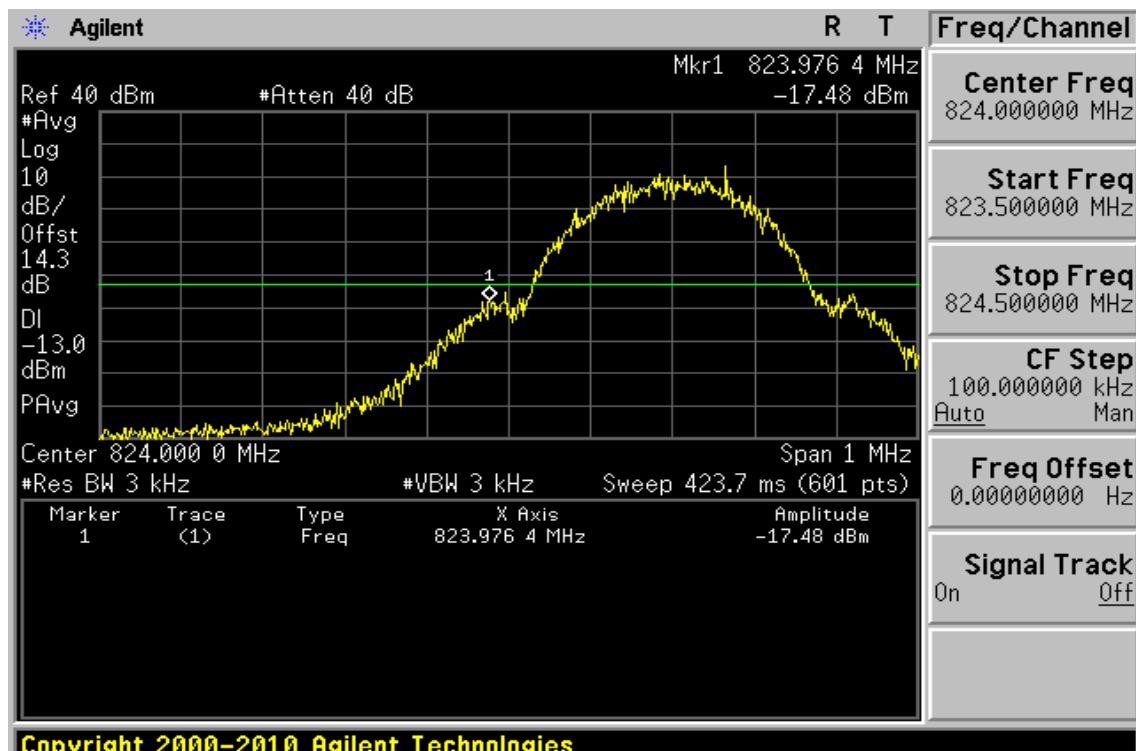
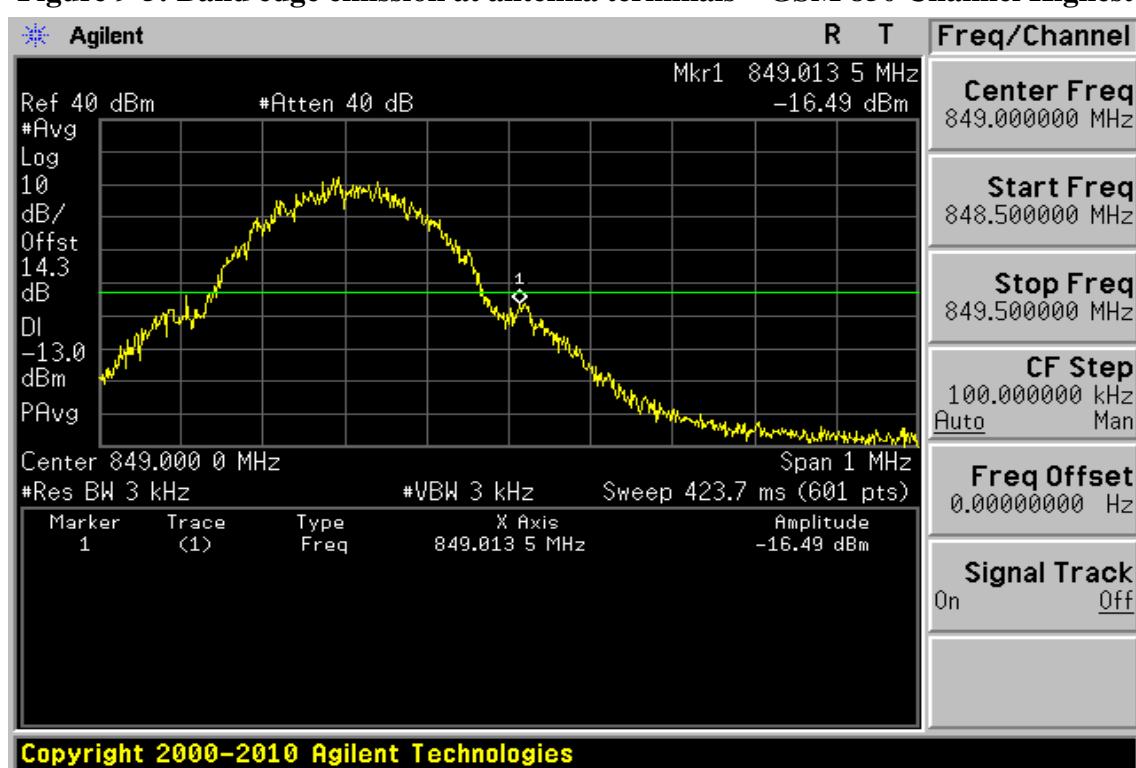


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest

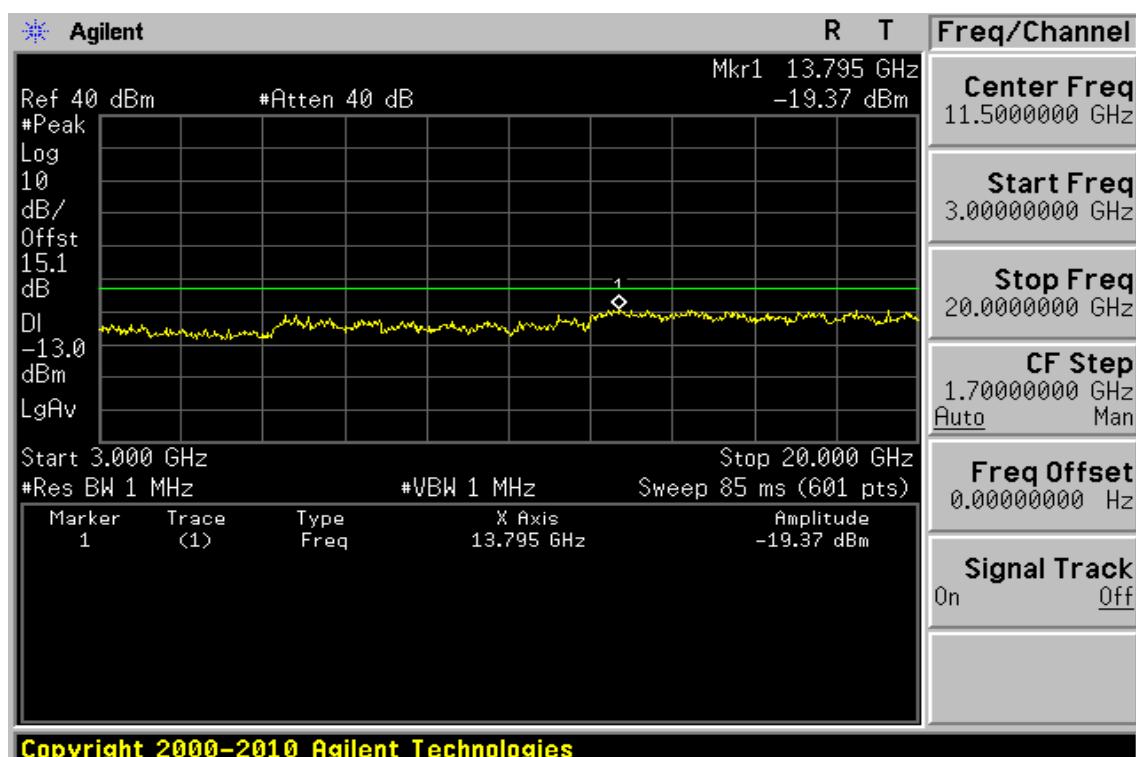
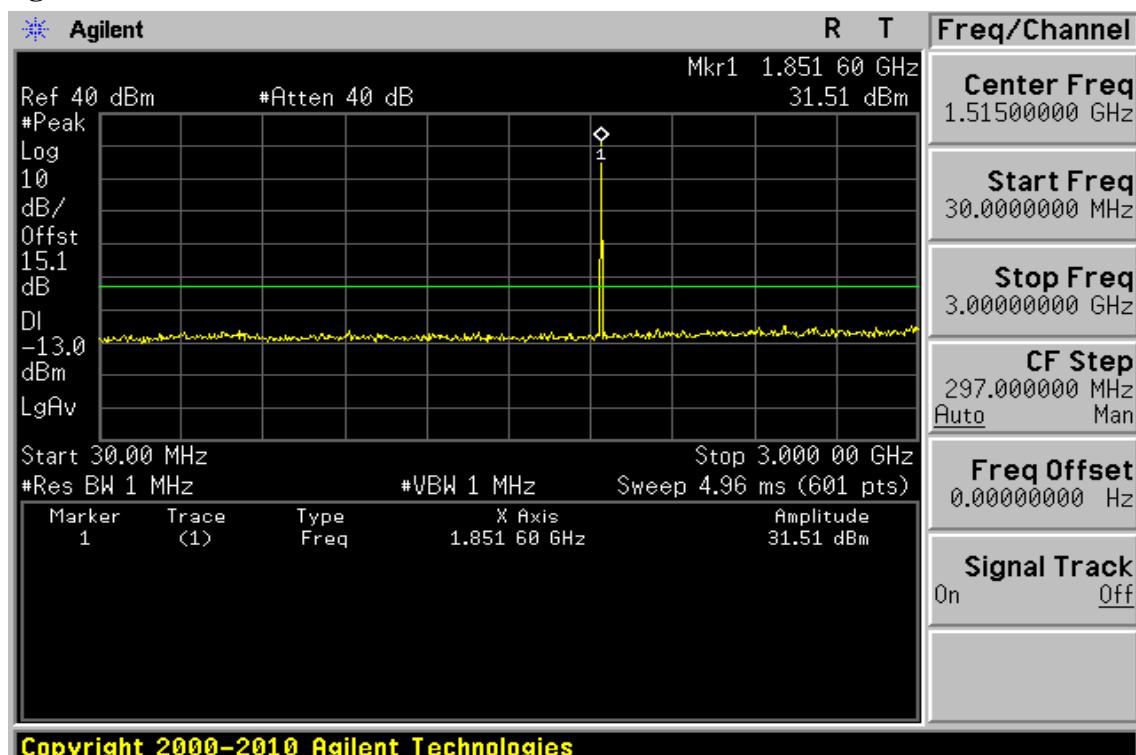


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Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest

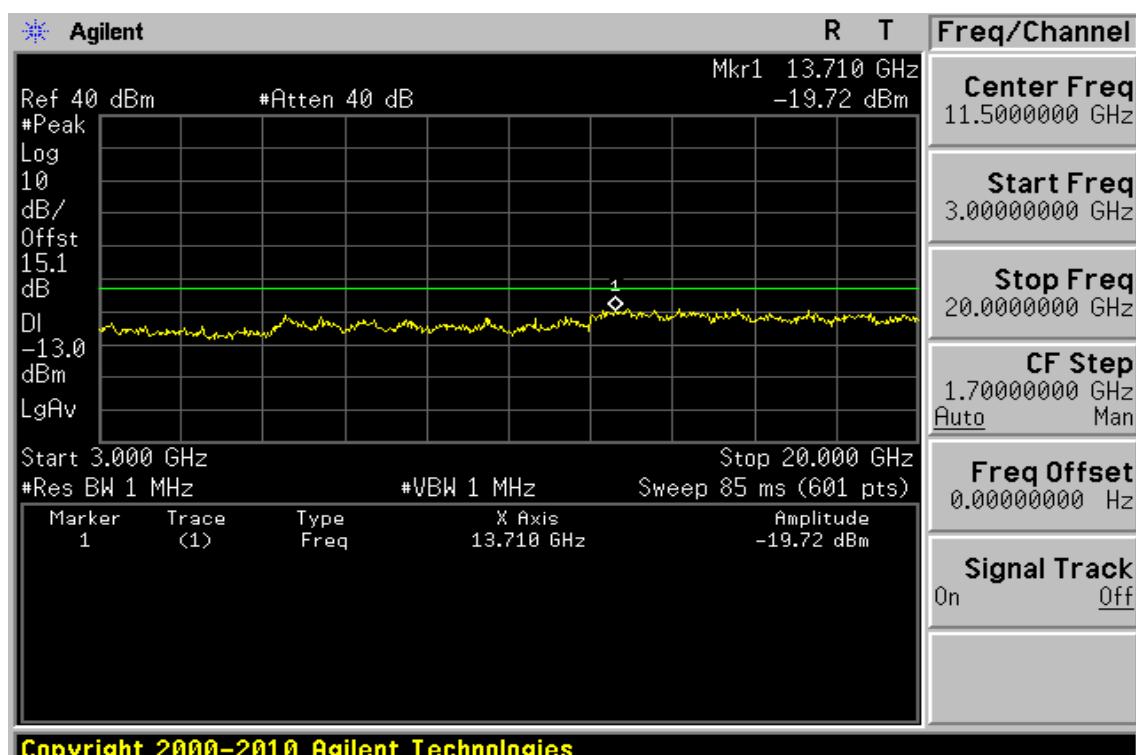
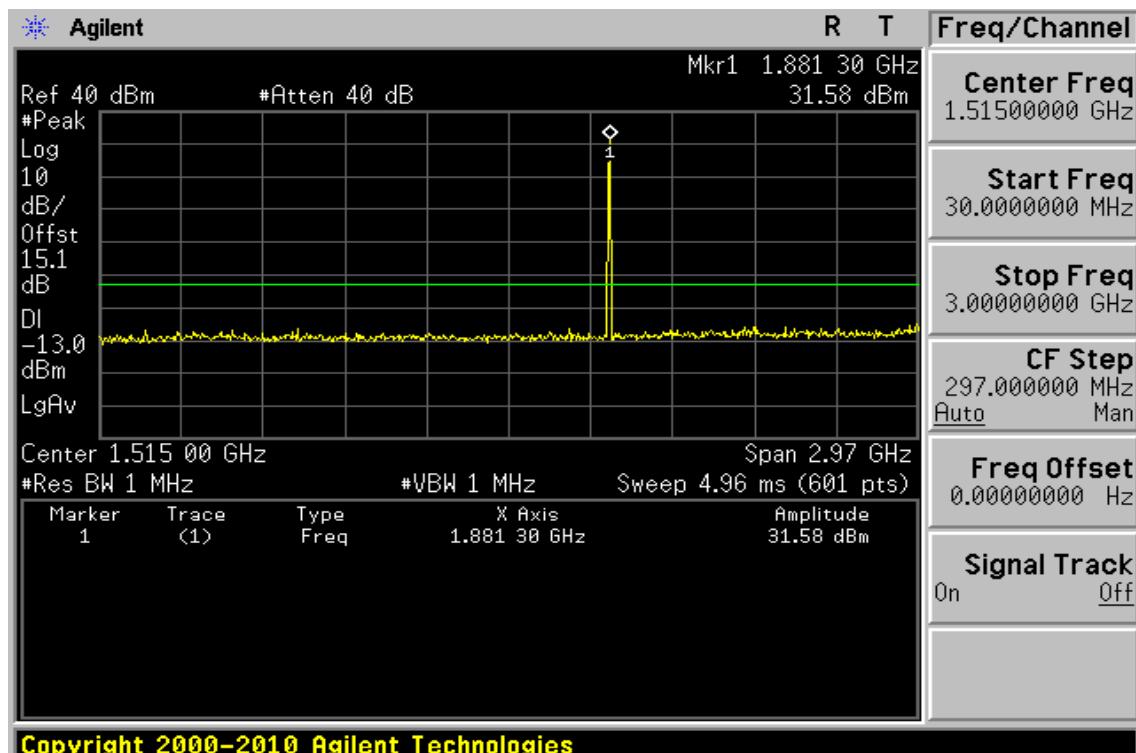


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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid

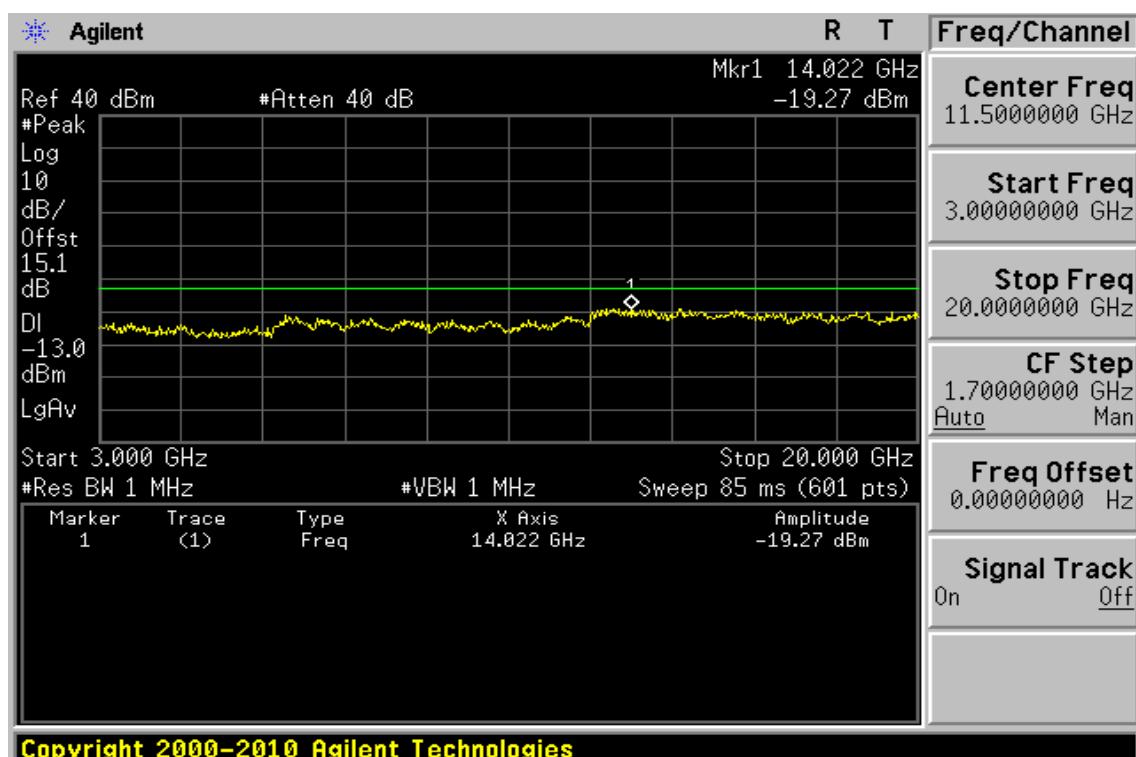
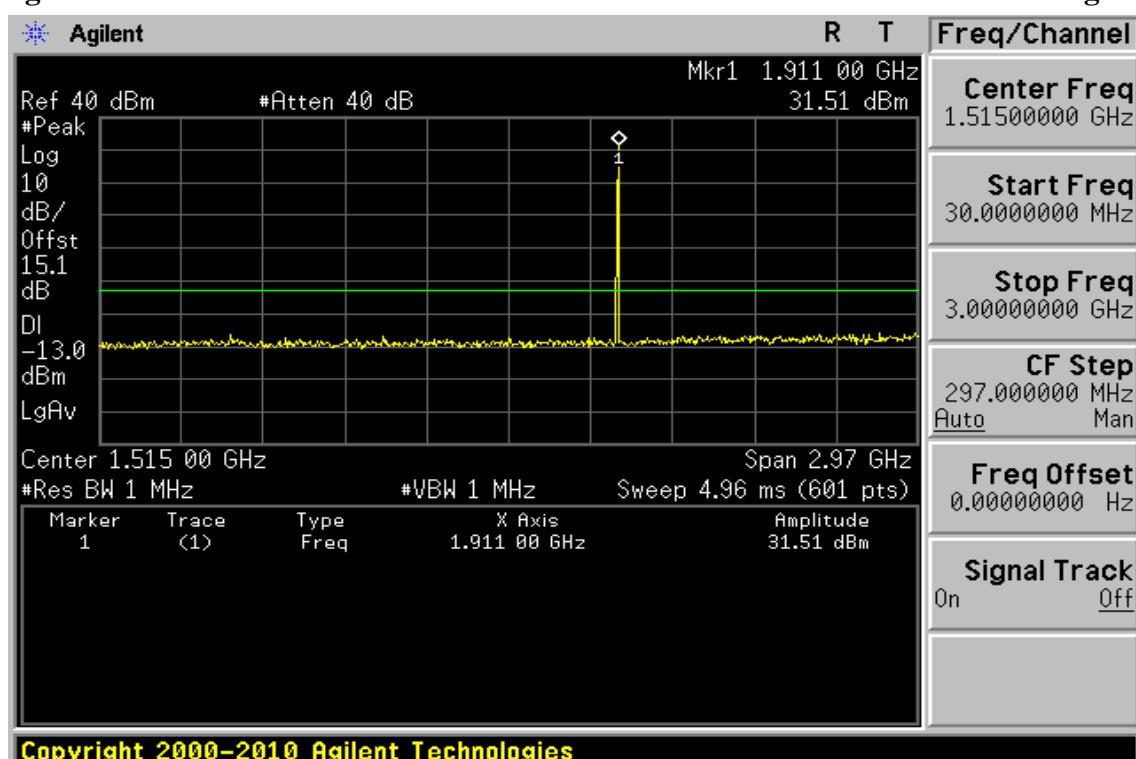


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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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Figure 9-9: Bad edge emission at antenna terminals – GSM 1900 Channel Lowest

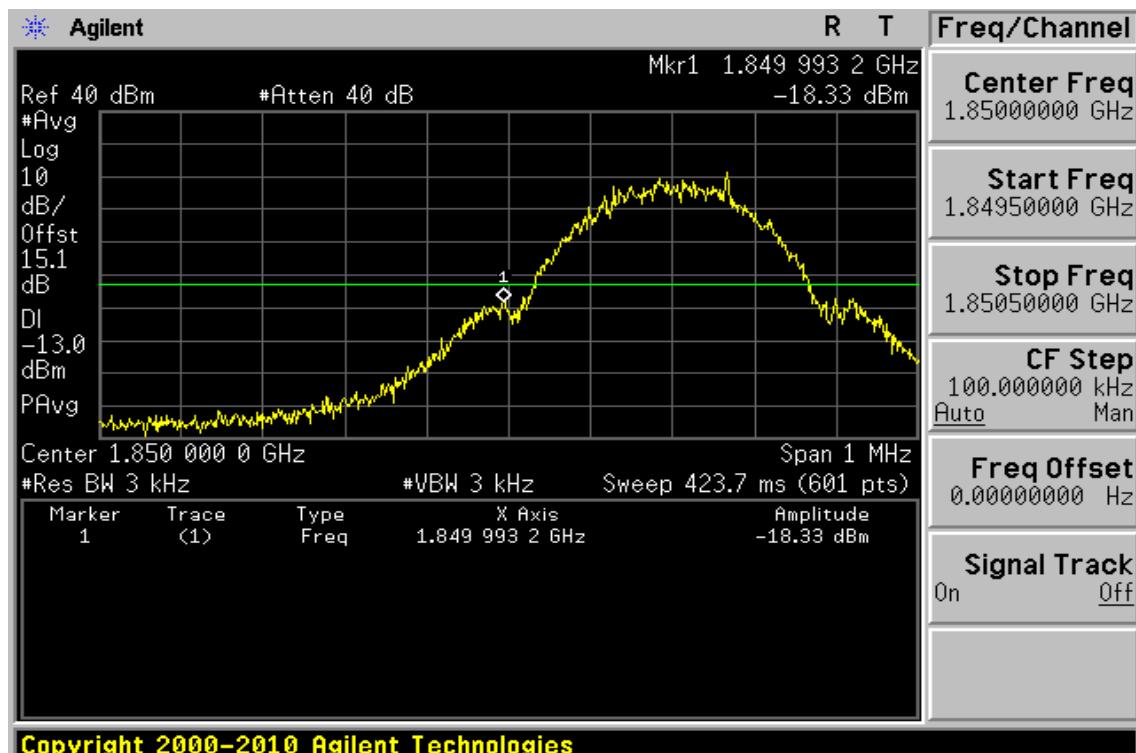
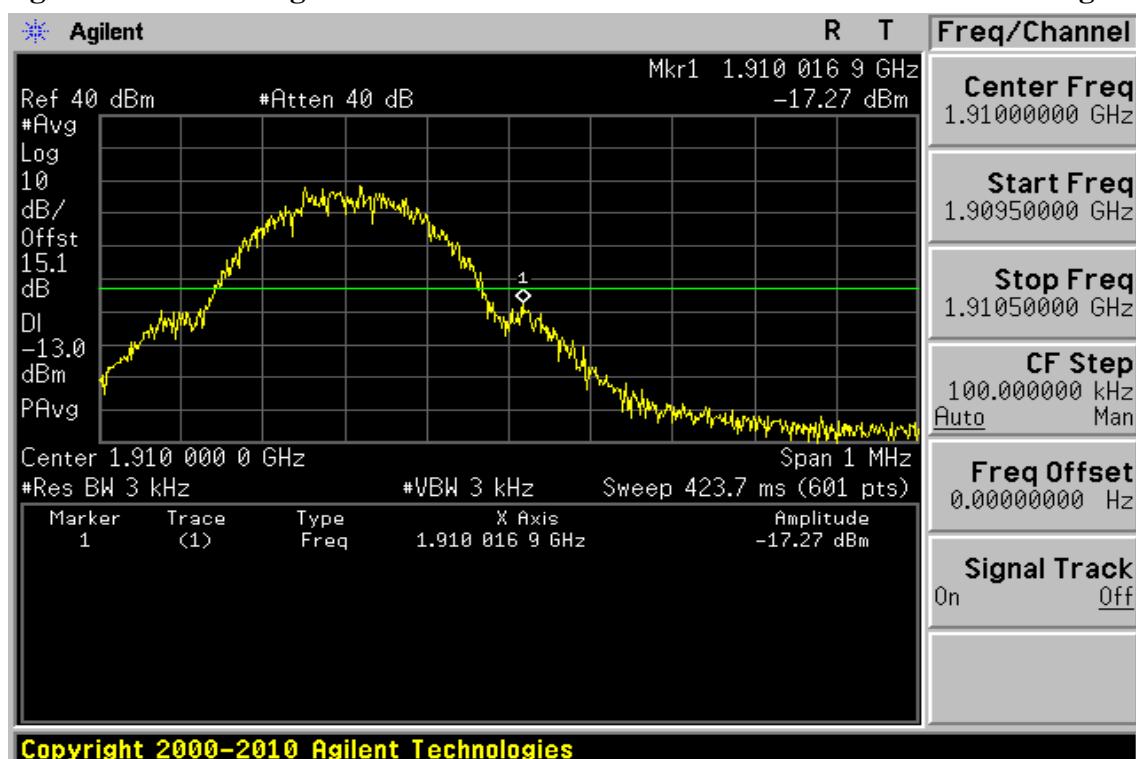


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest

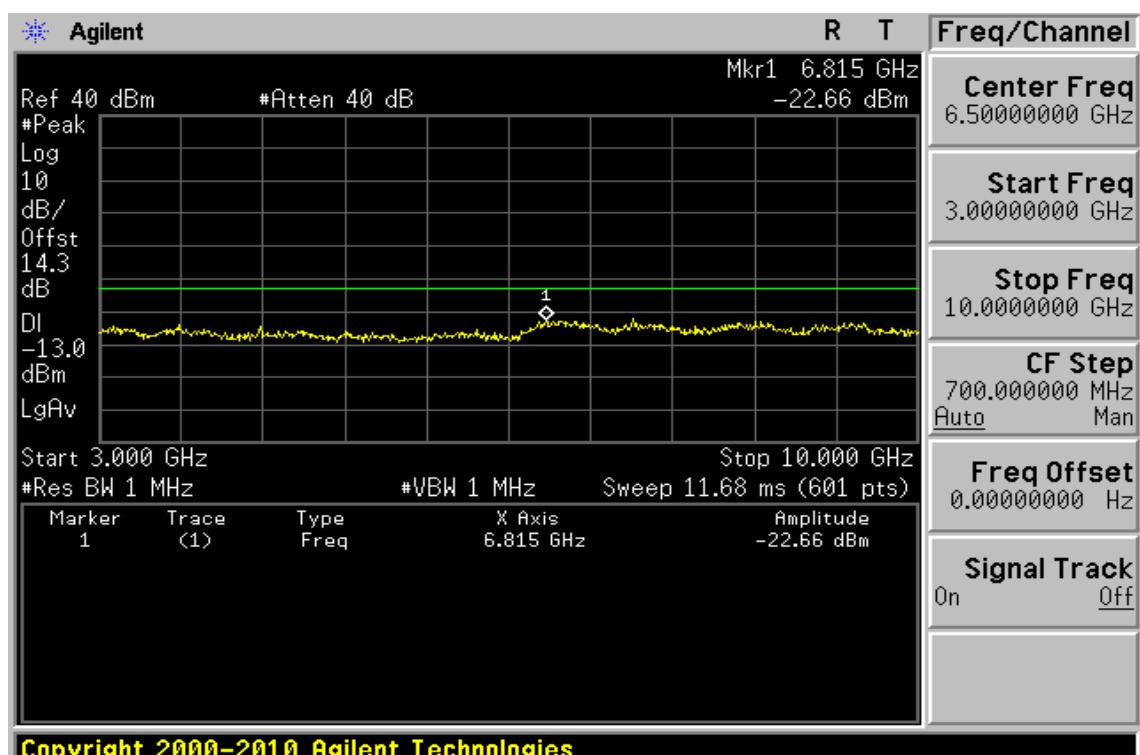
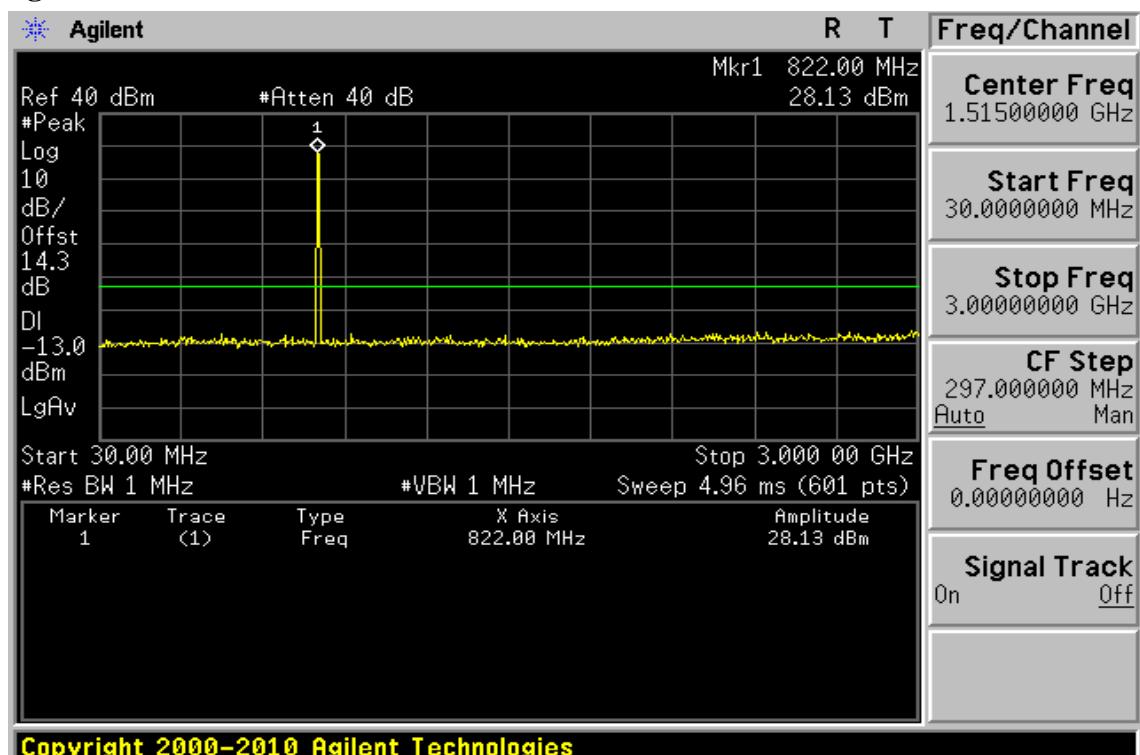


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Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest

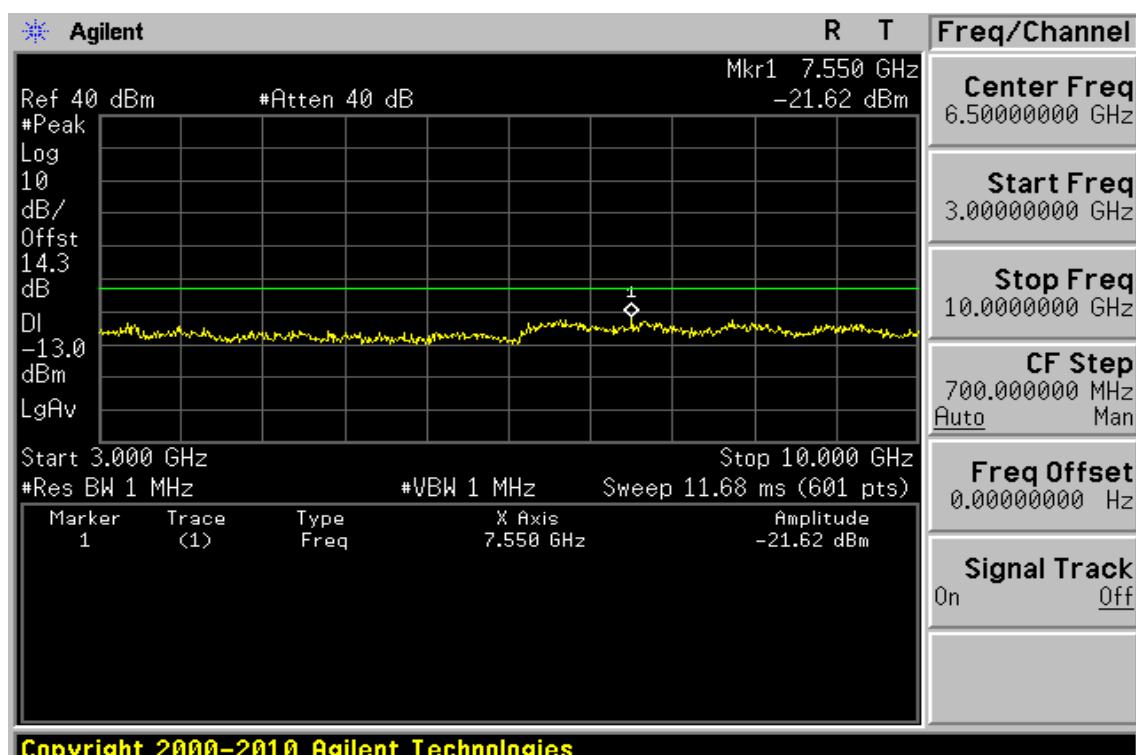
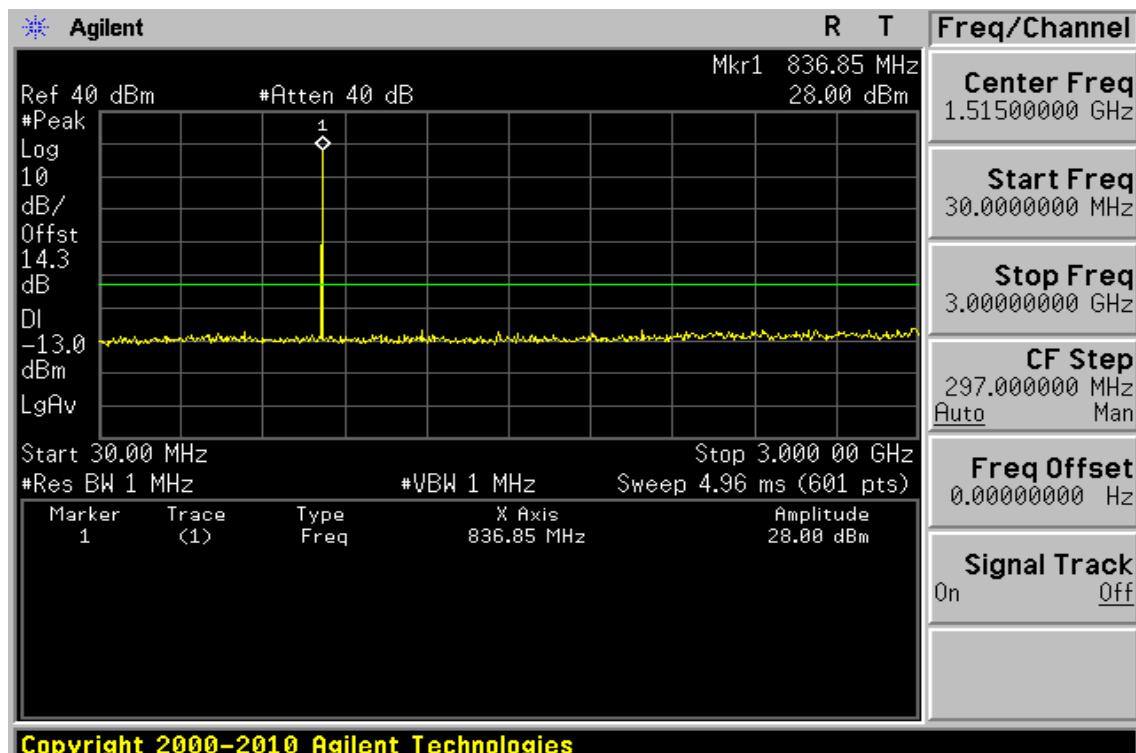


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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid

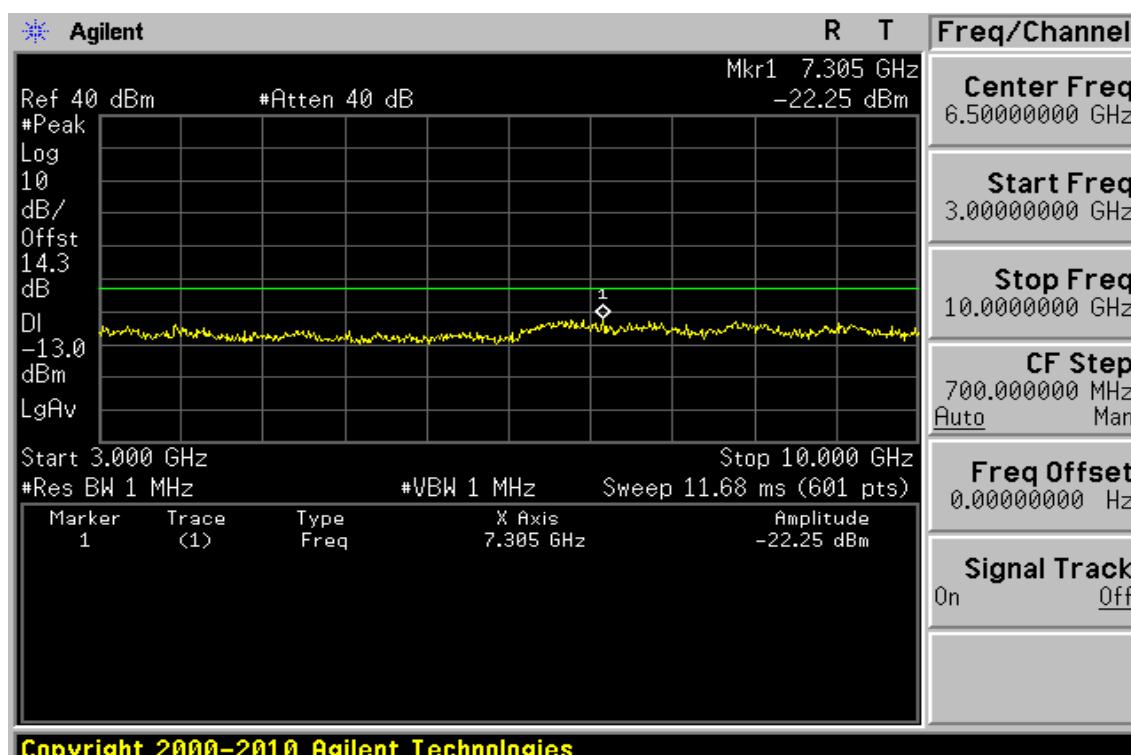
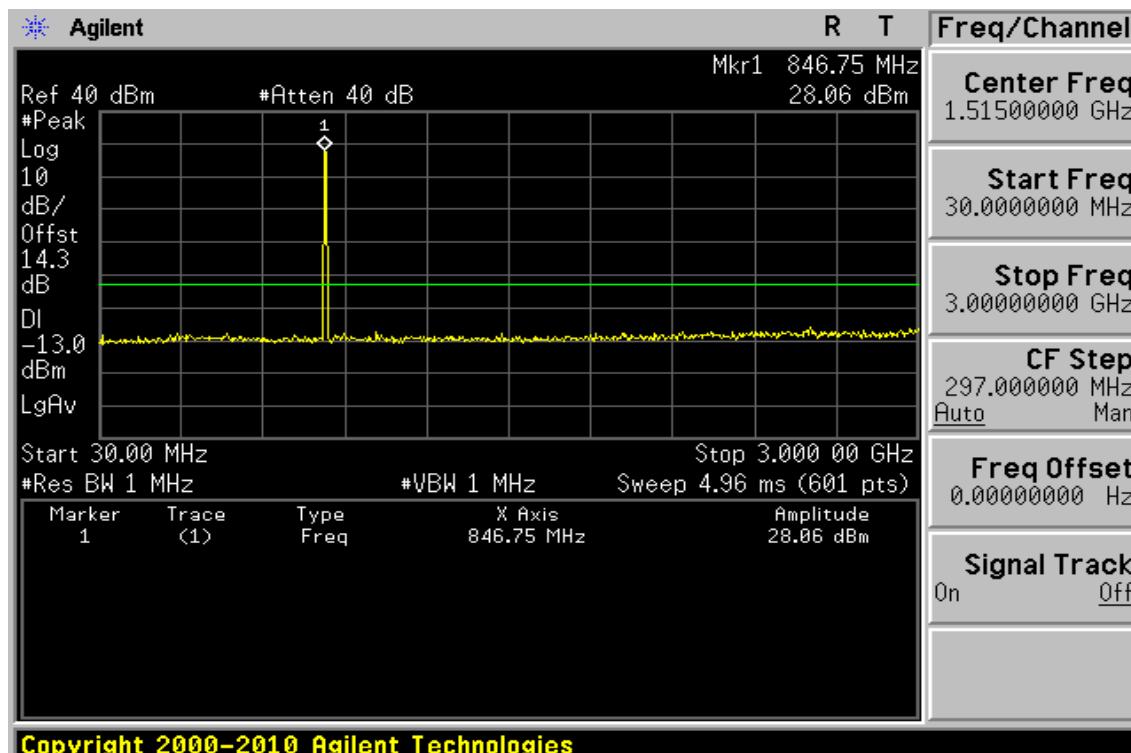


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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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

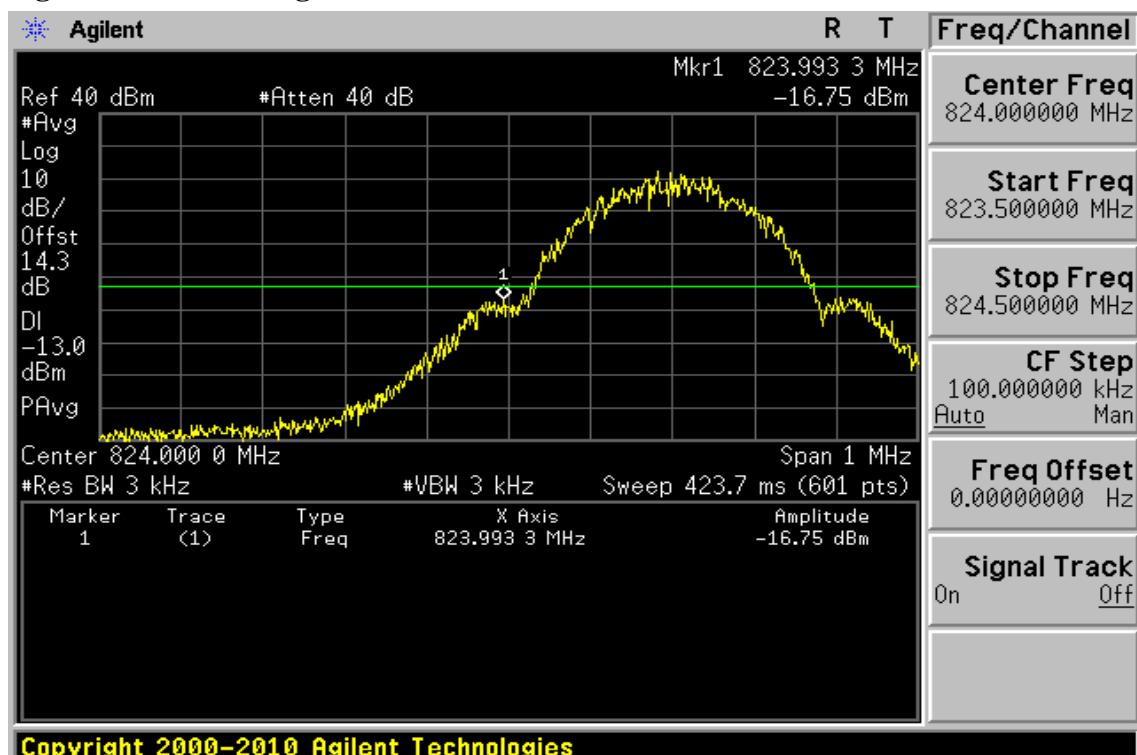
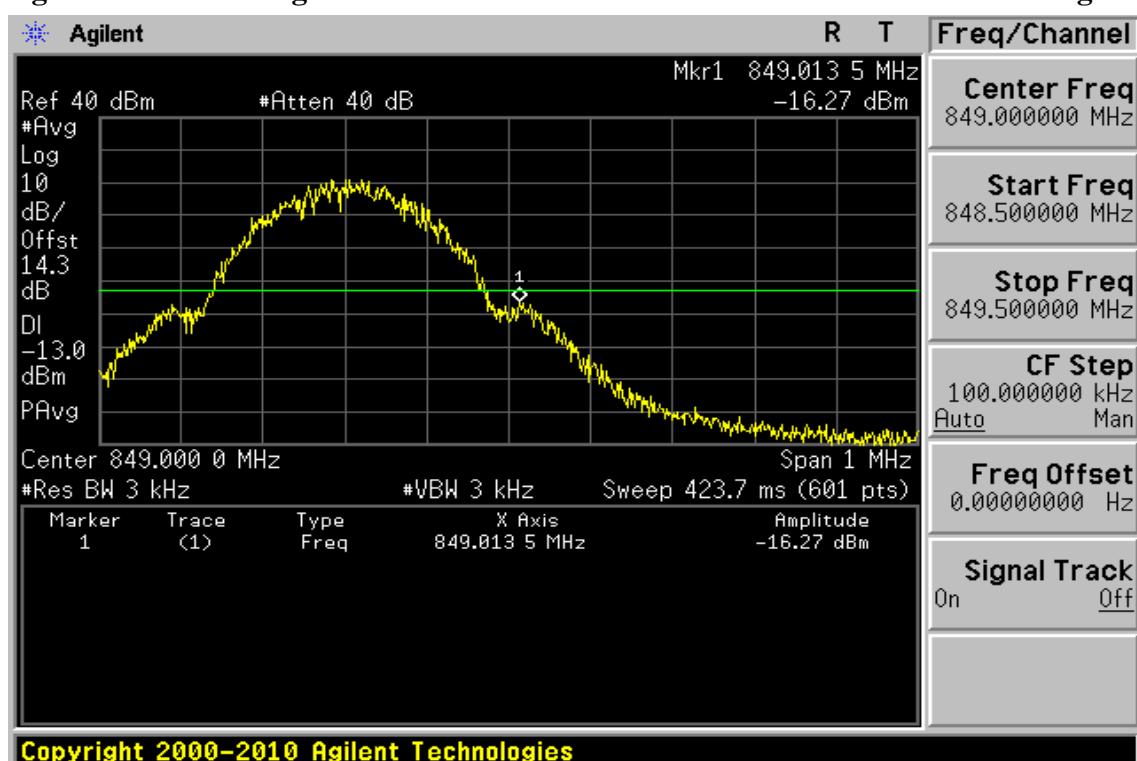


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest

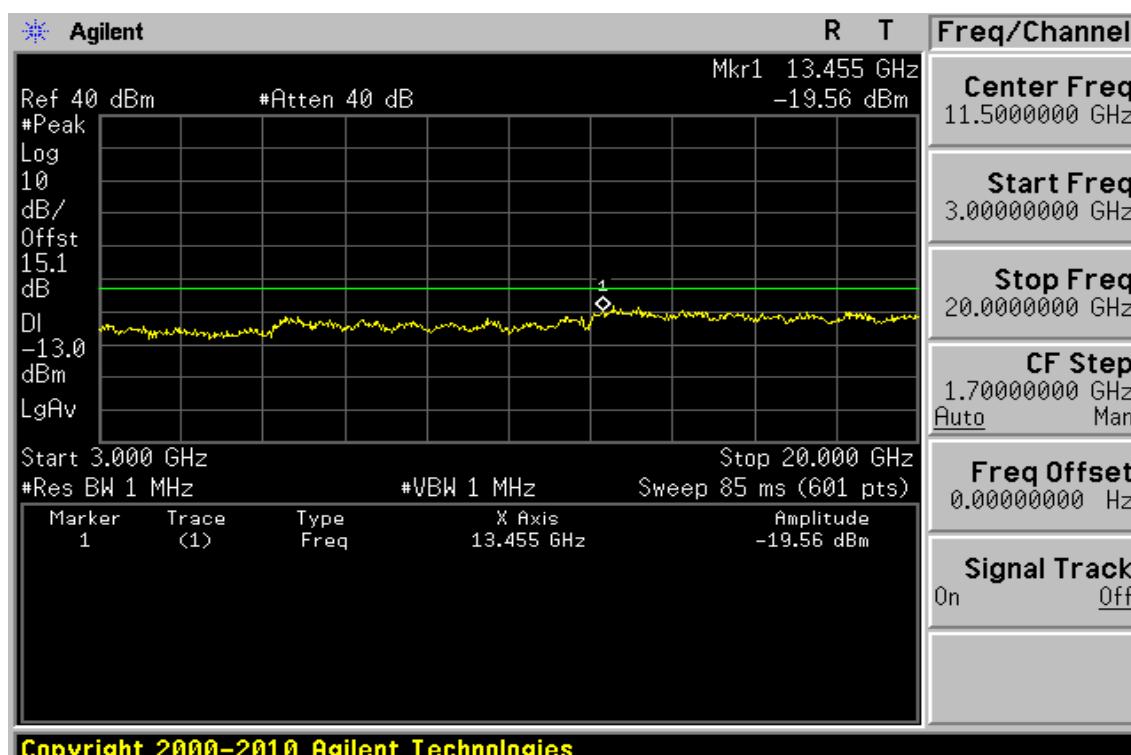
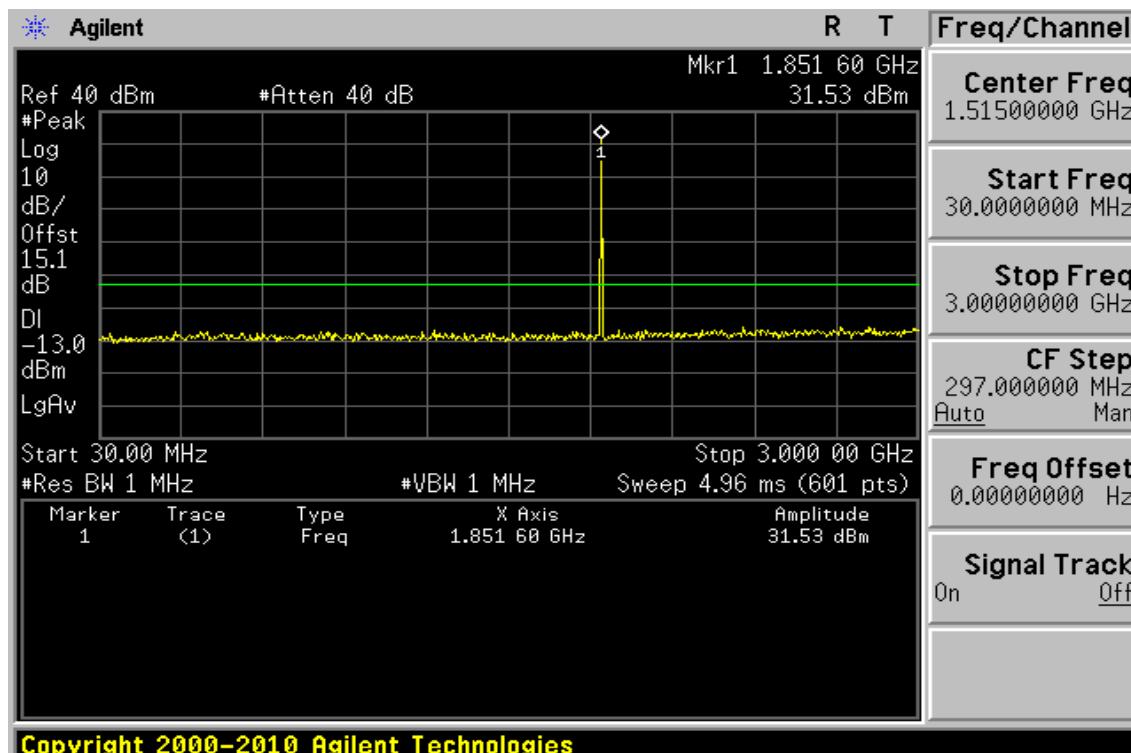


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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest

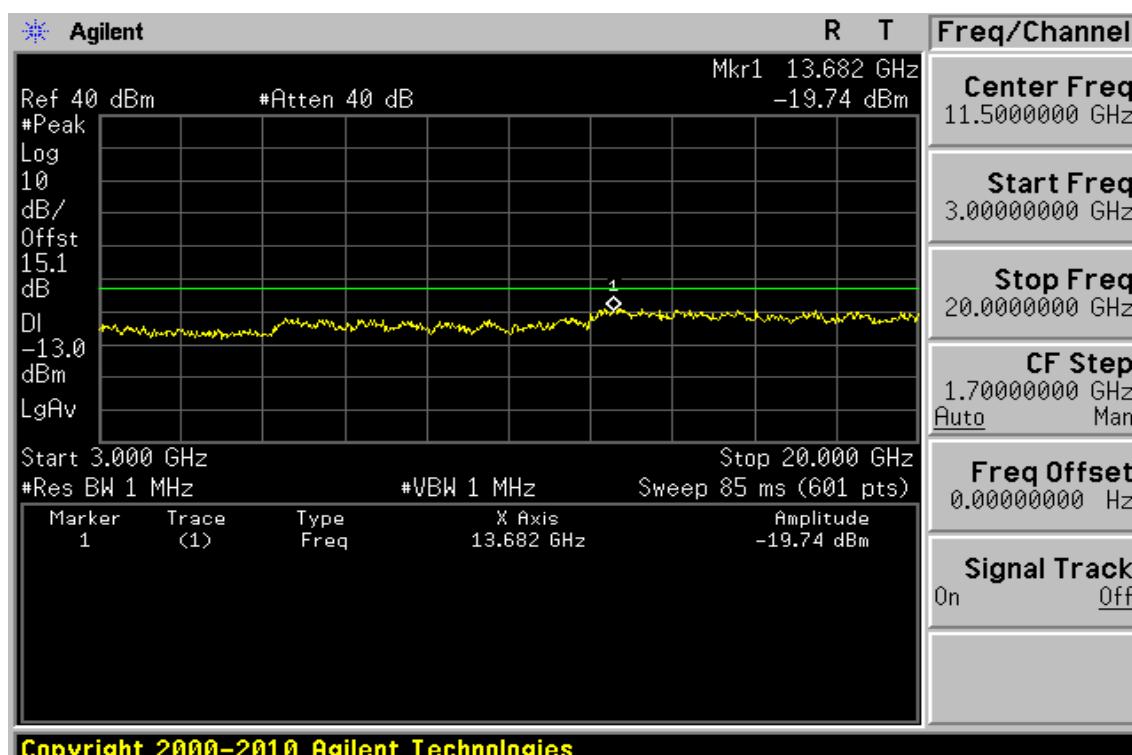
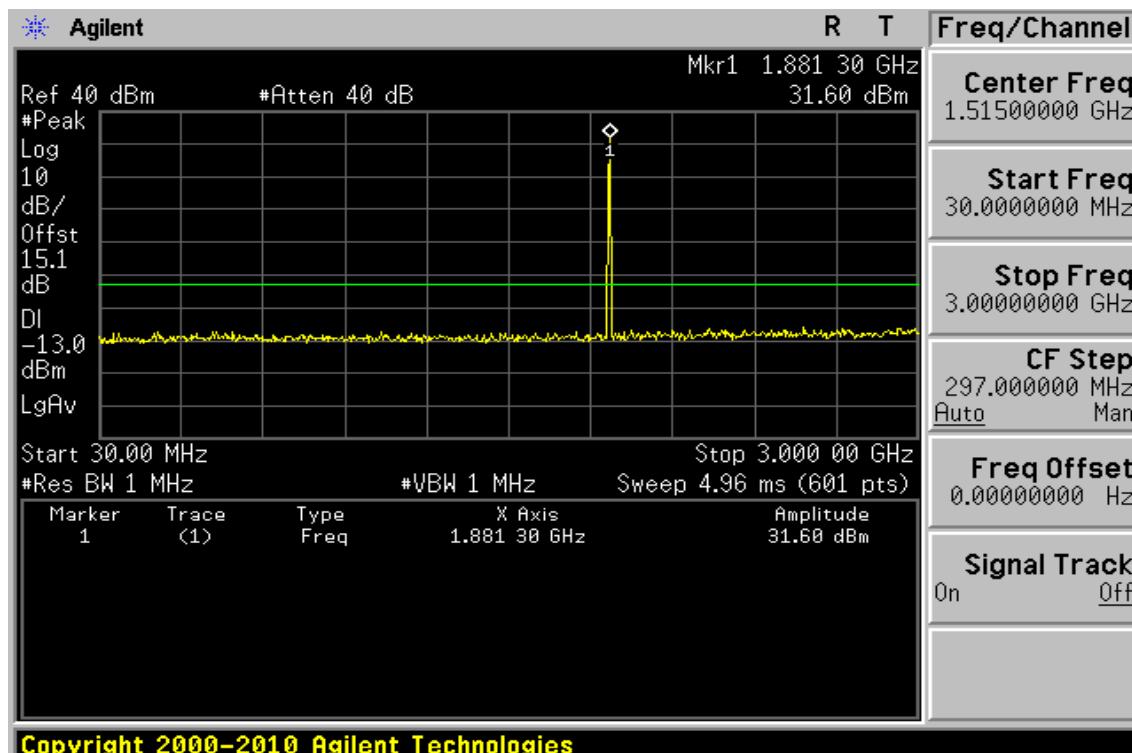


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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid

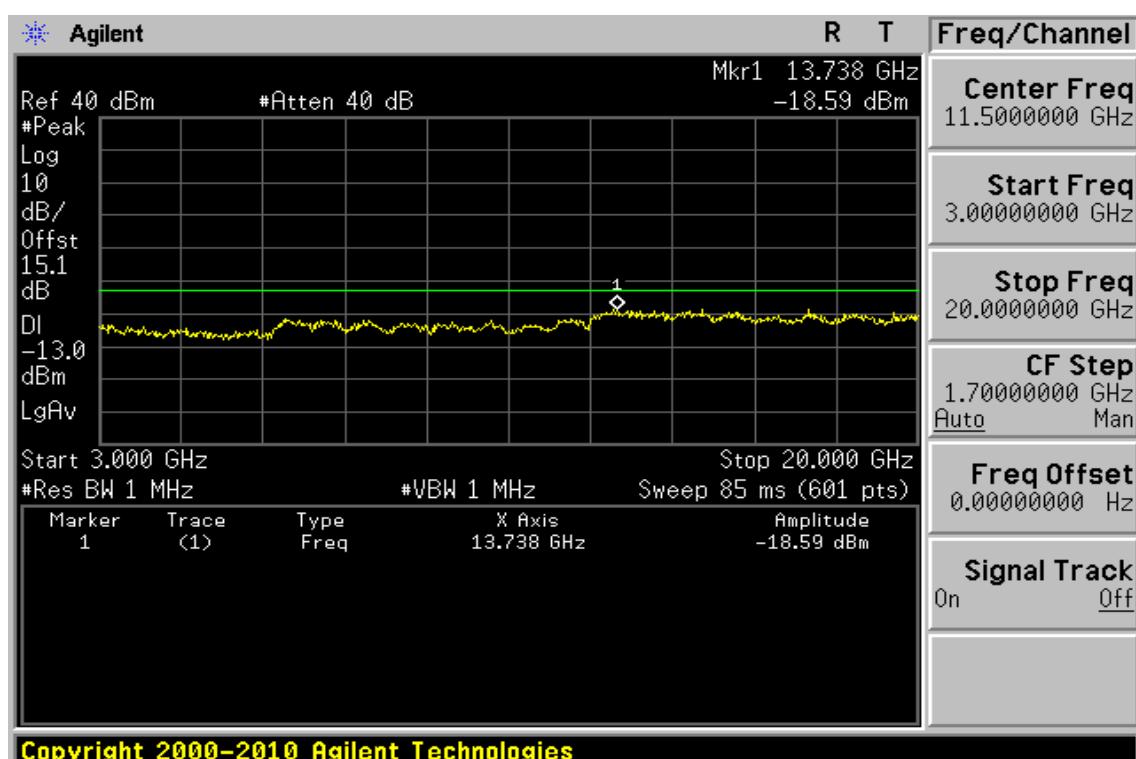
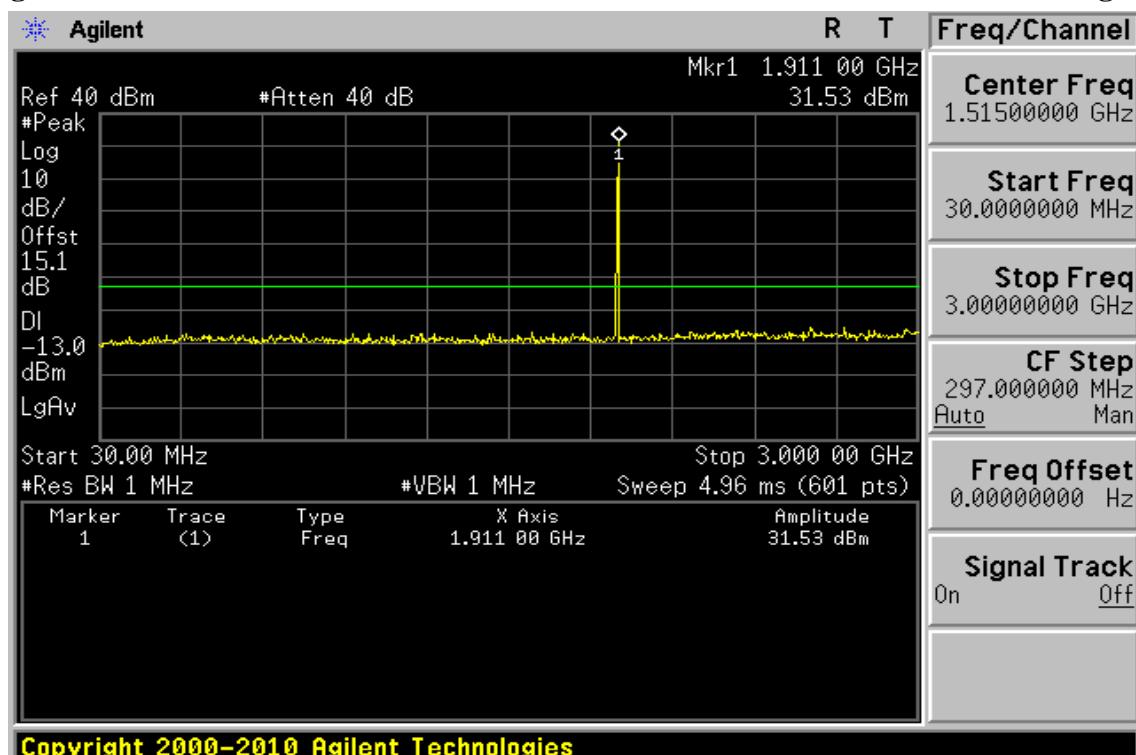


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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest

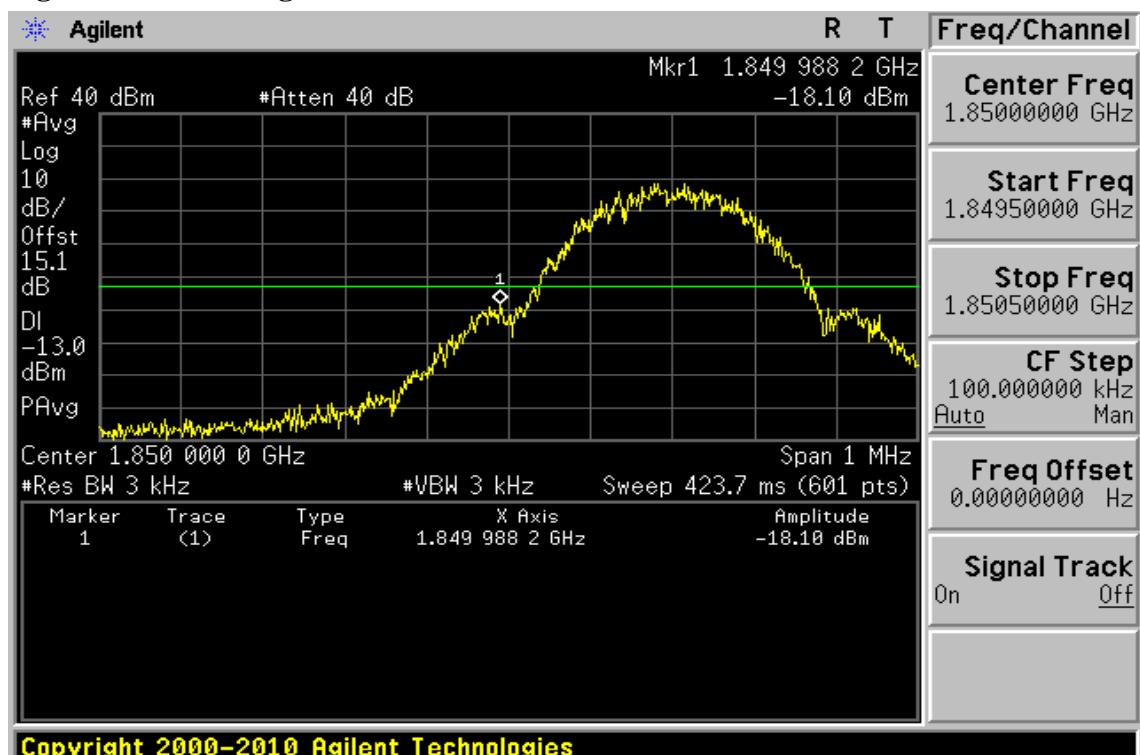


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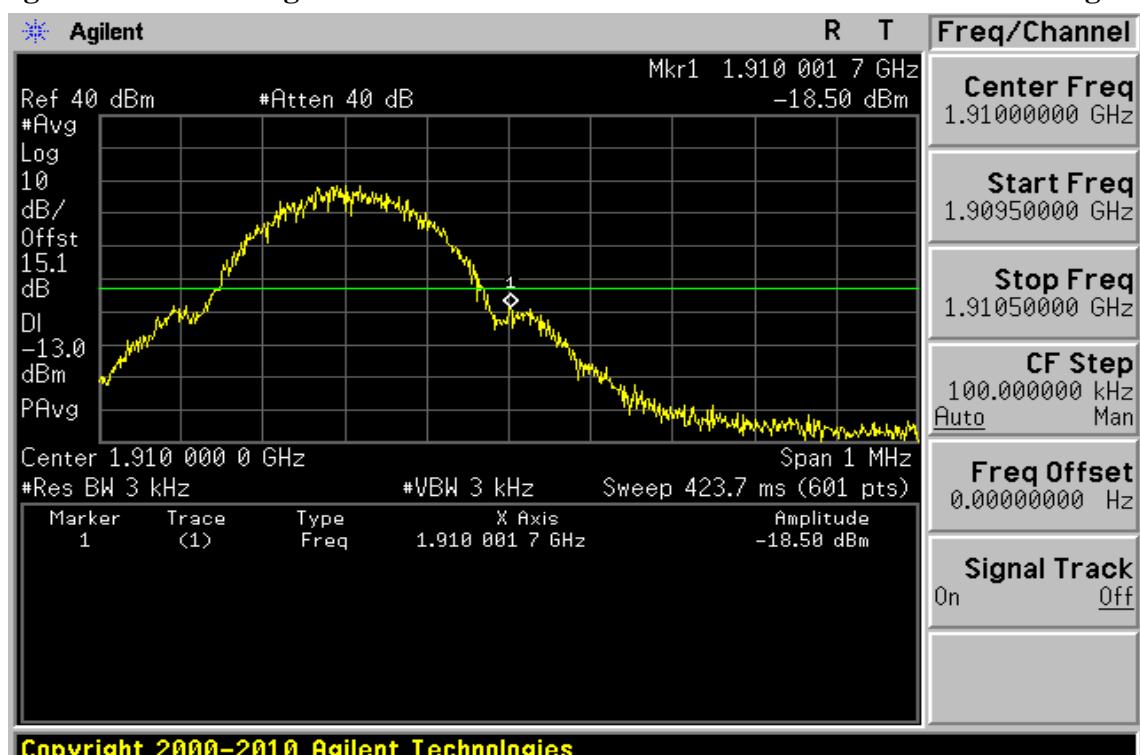
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Figure 9-19: Bad edge emission at antenna terminals – GPRS 1900 Channel Lowest



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



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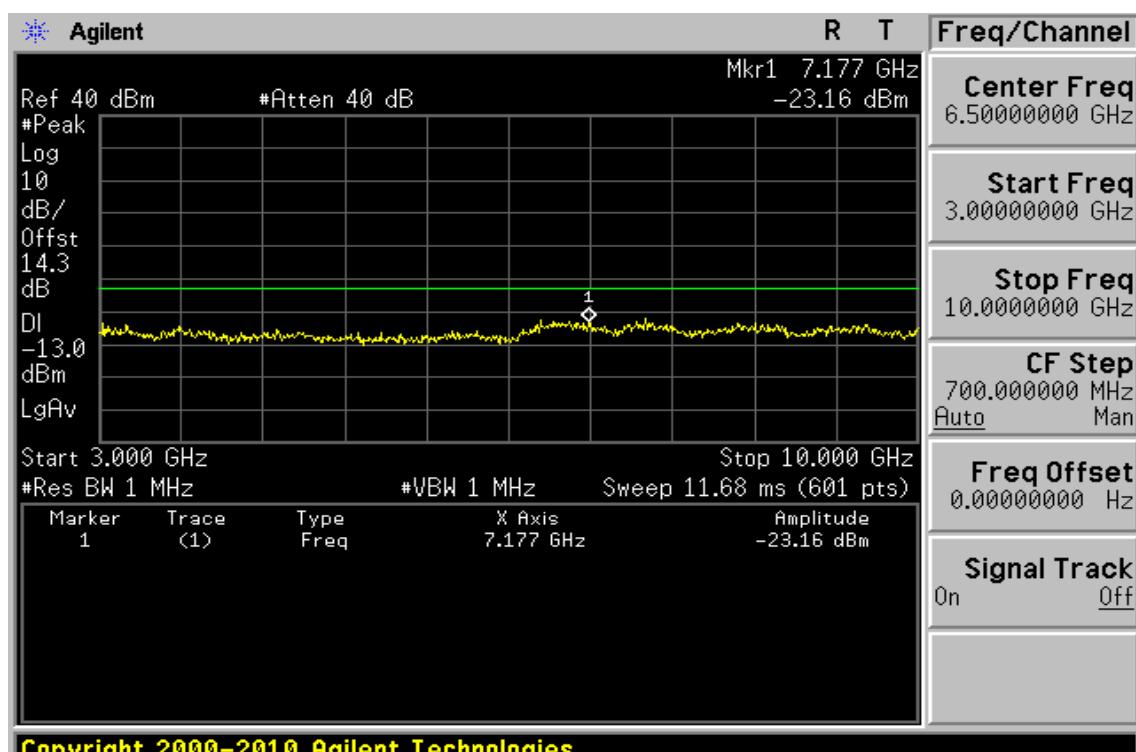
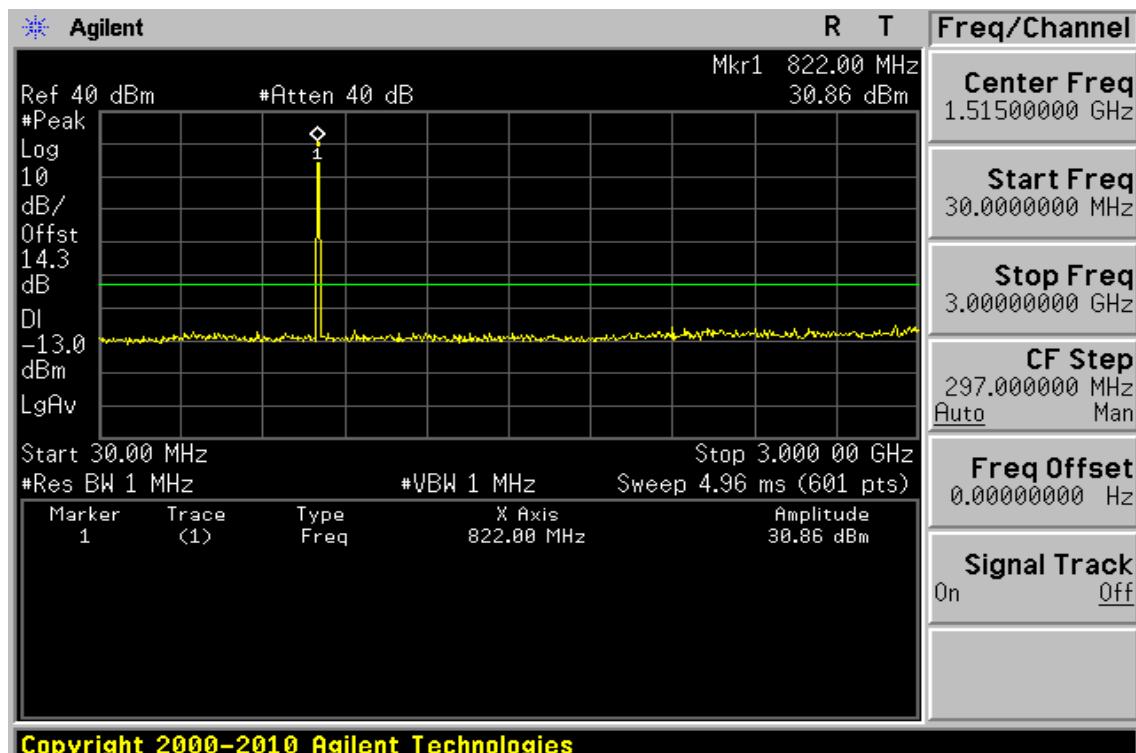
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Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest

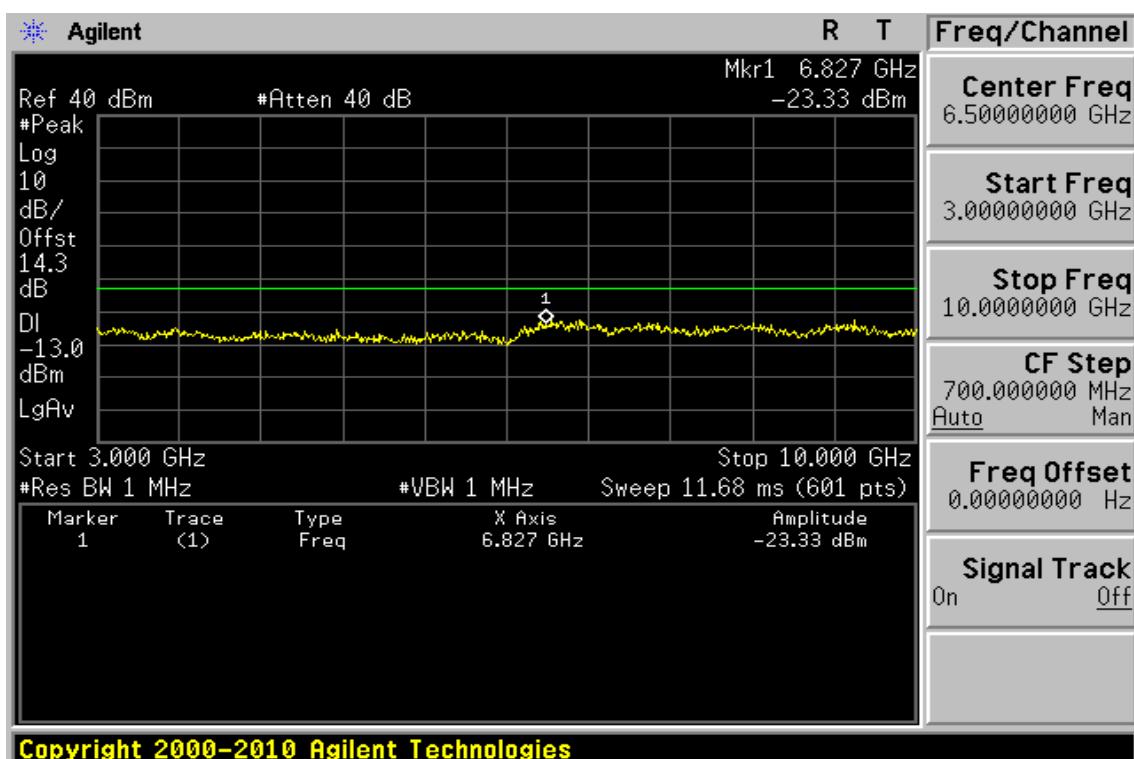
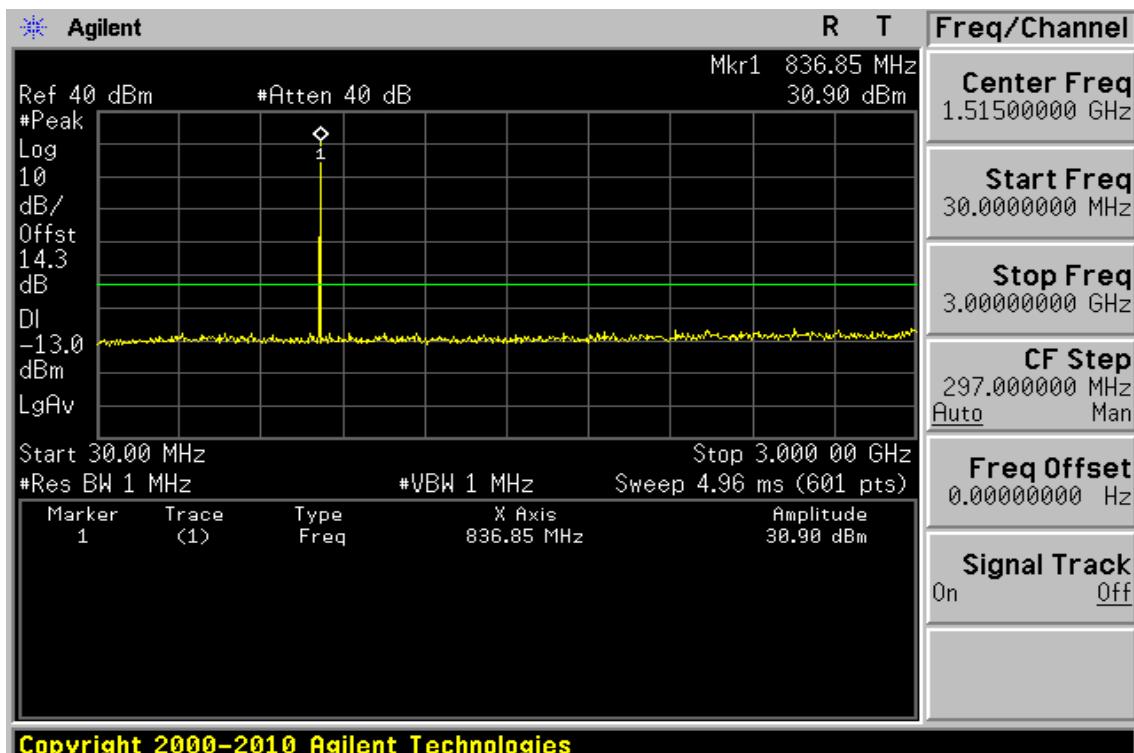


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Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid

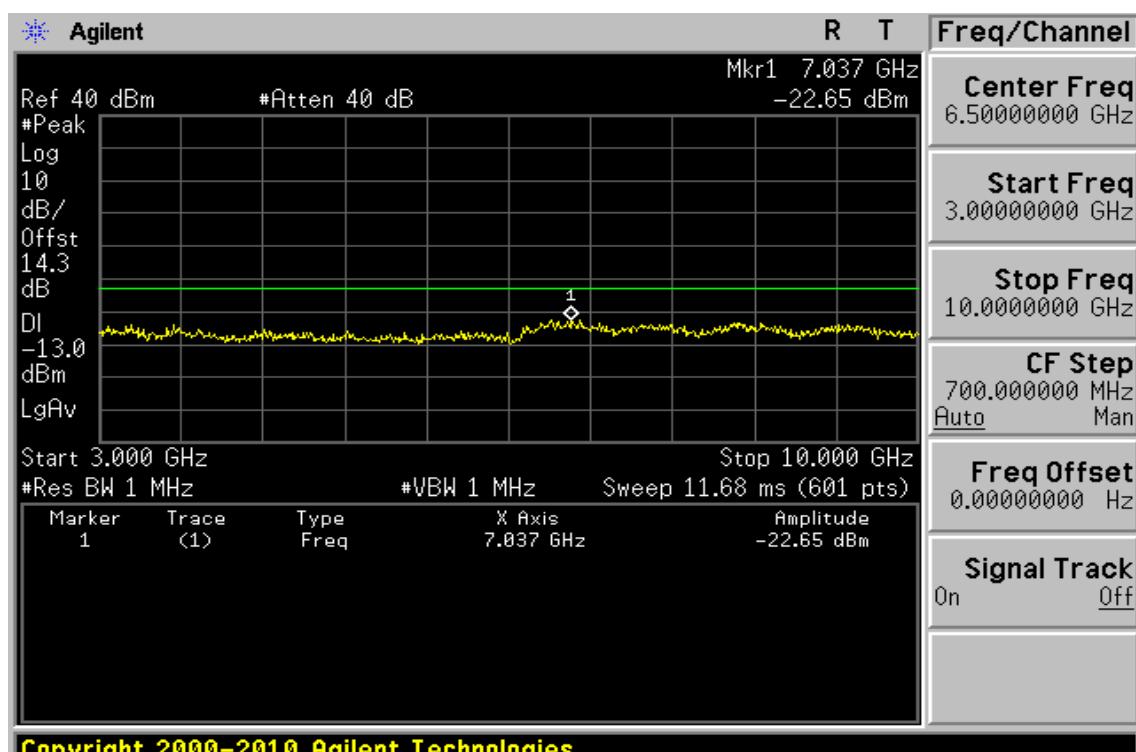
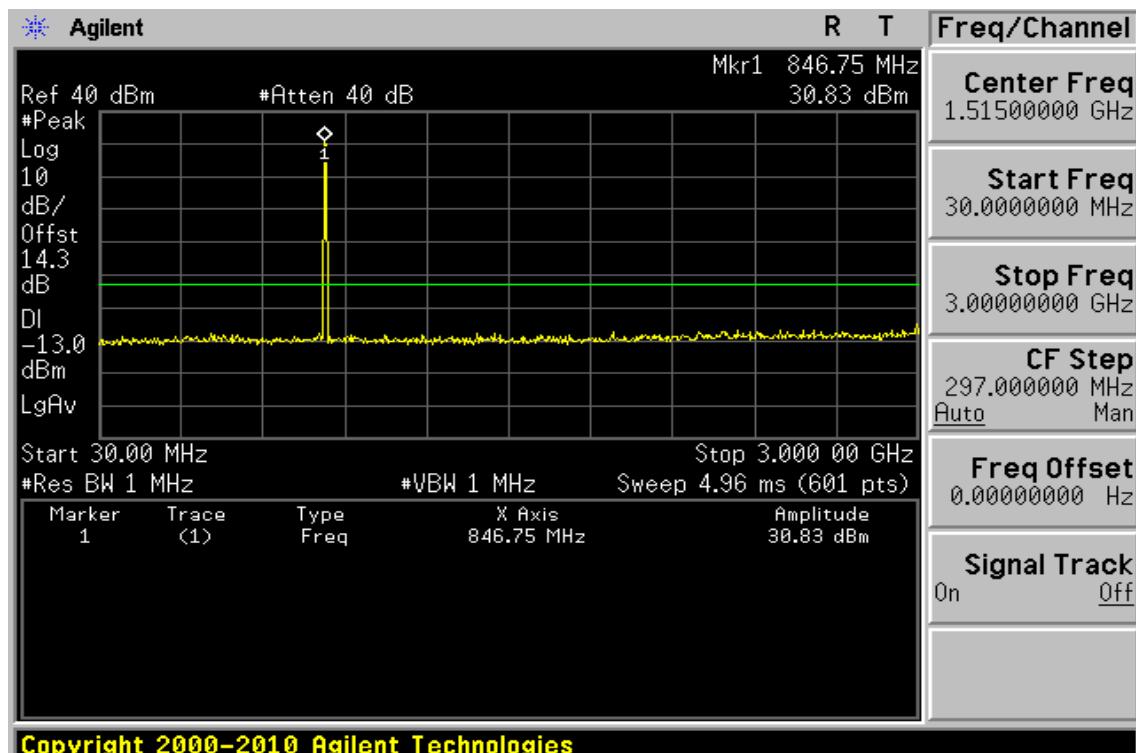


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Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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

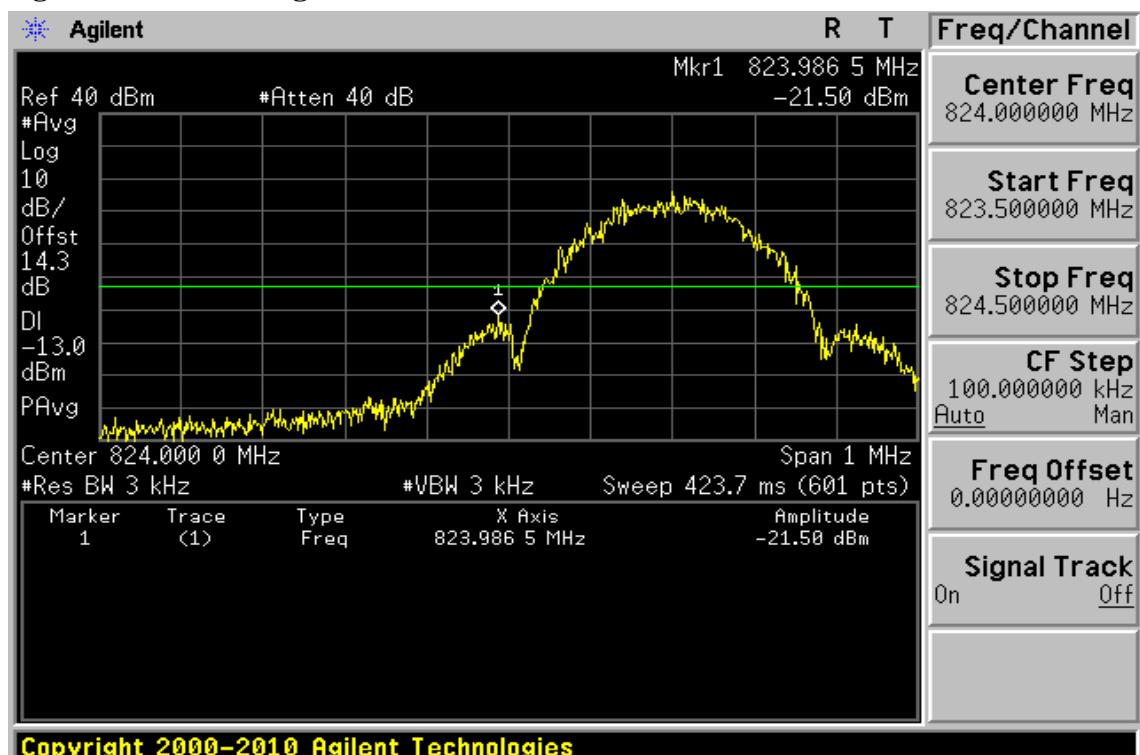
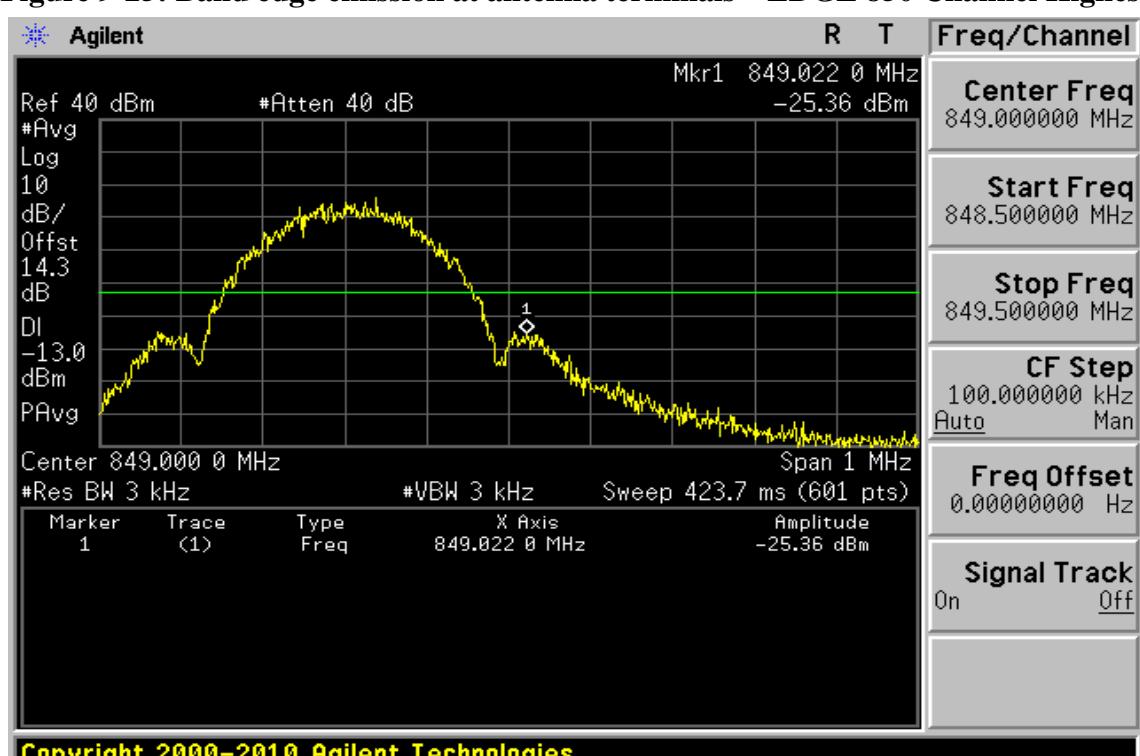


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest

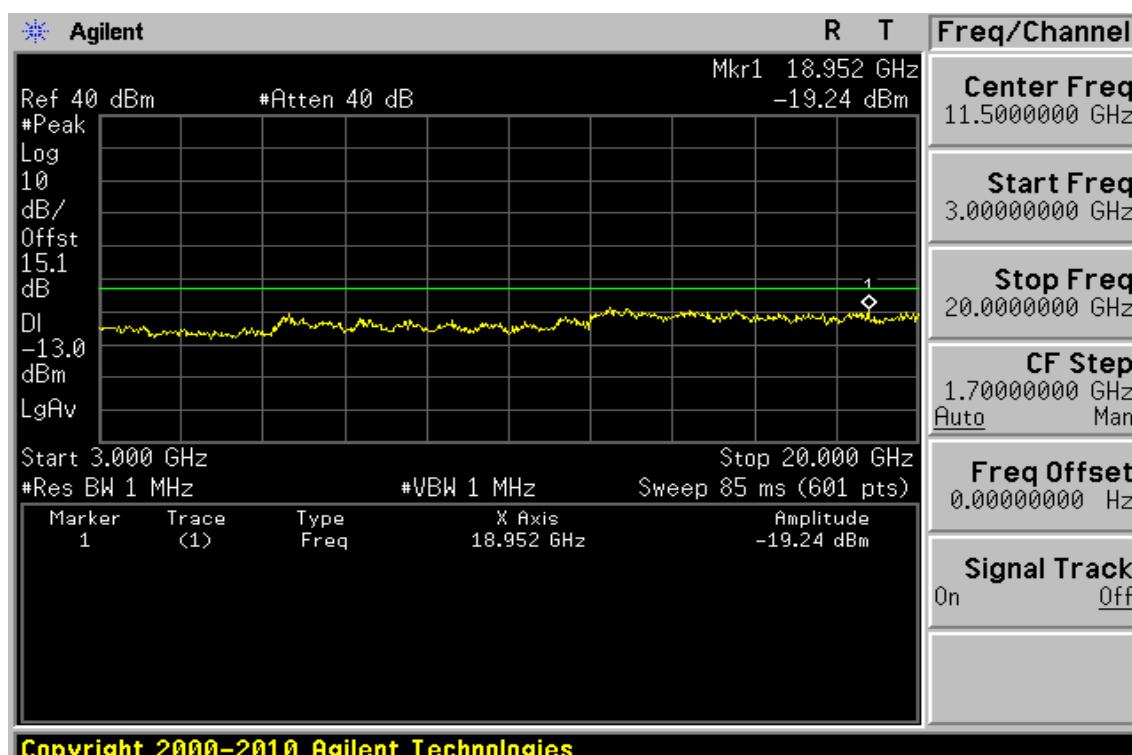
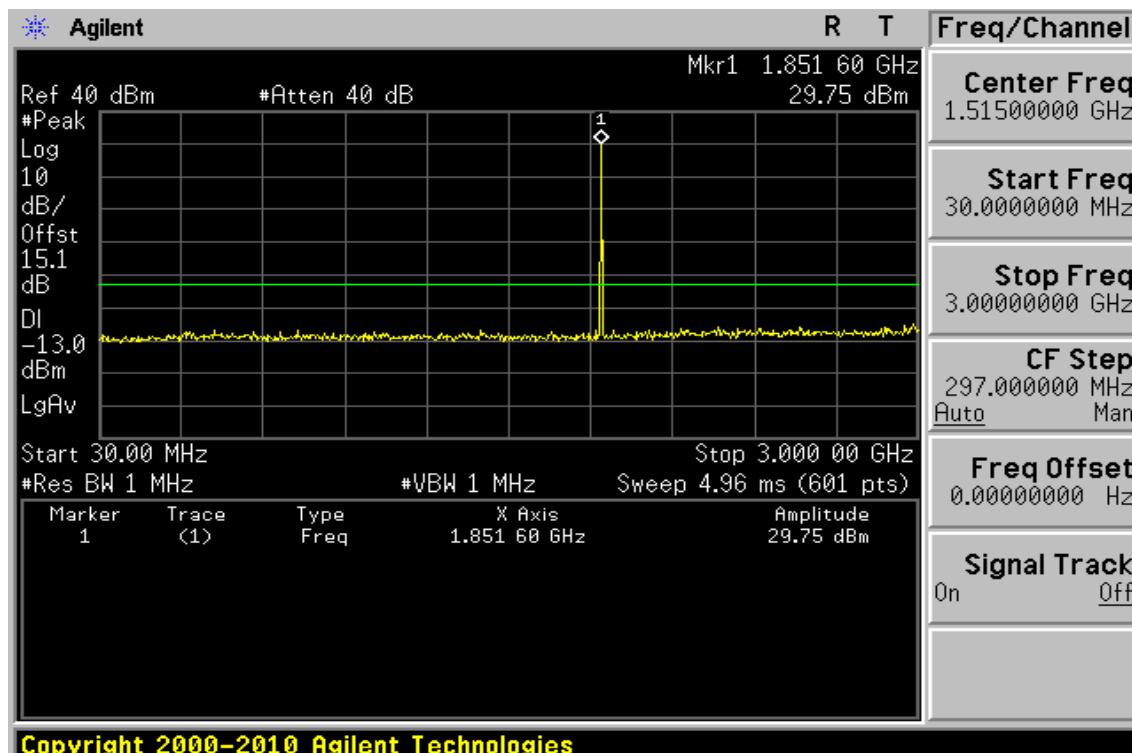


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Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest

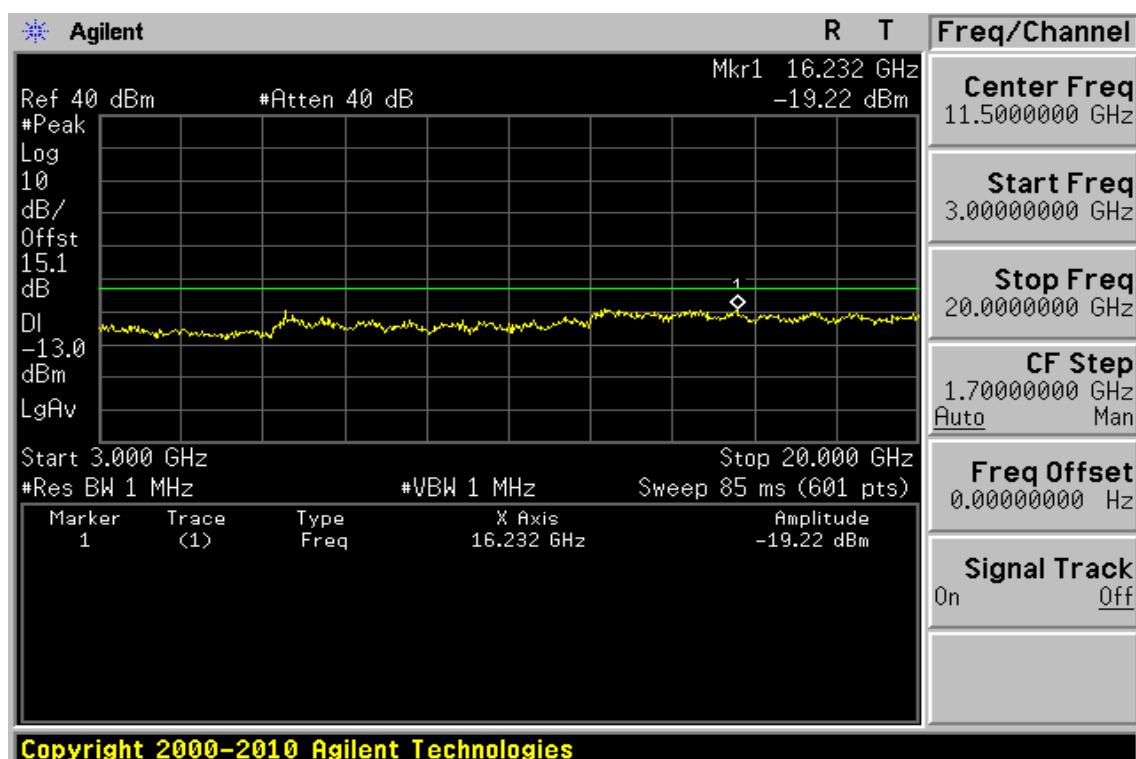
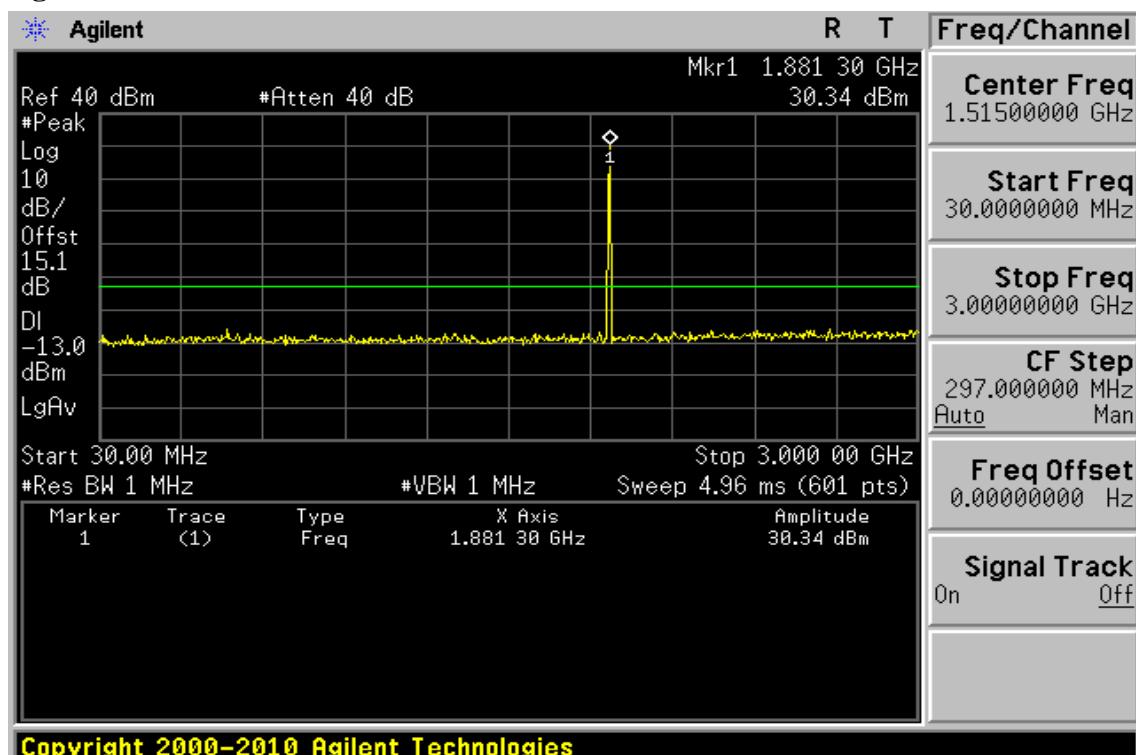


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Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid

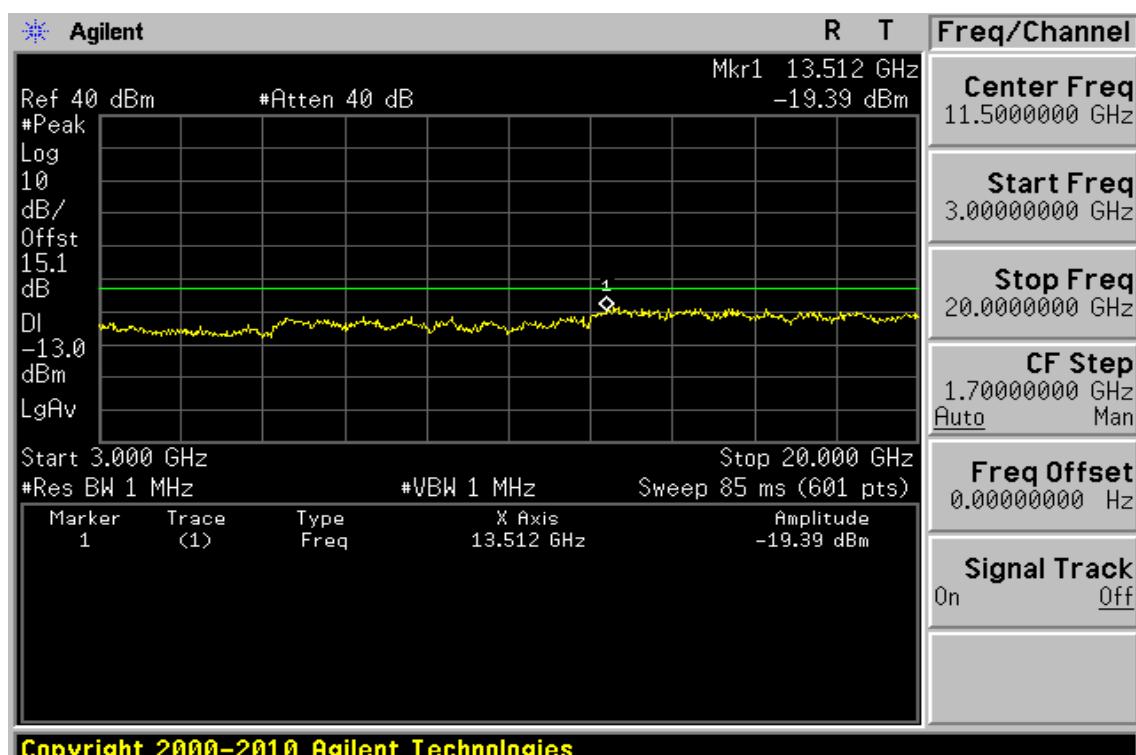
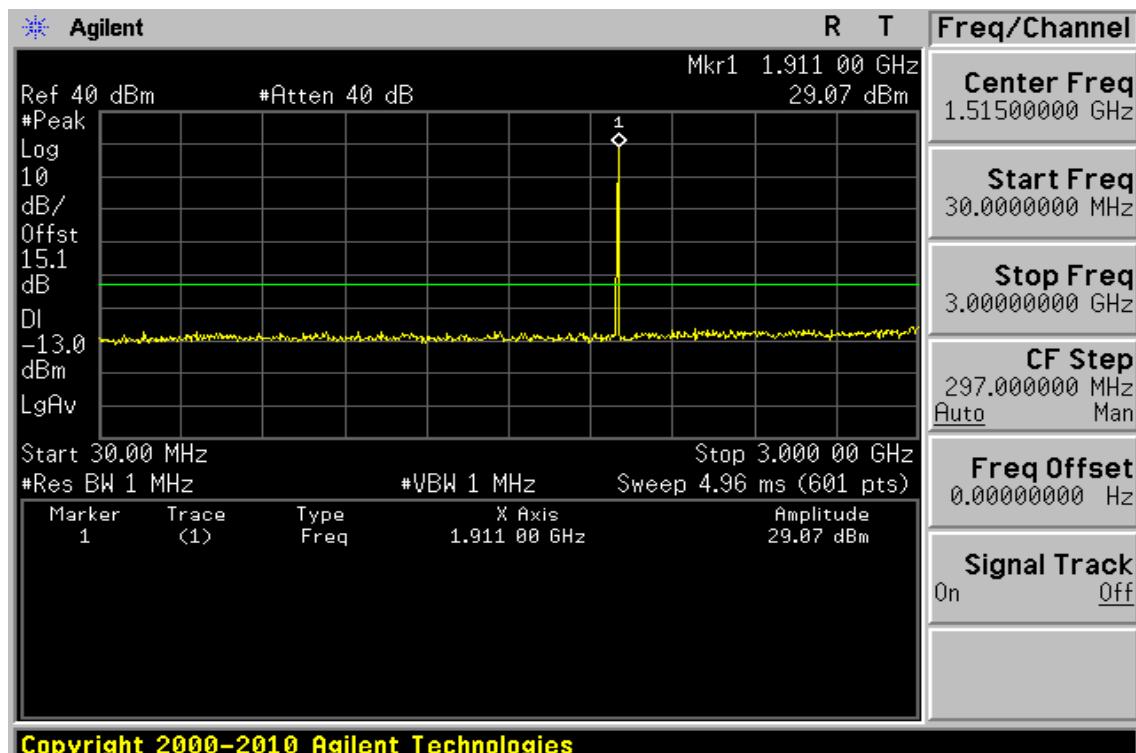


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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest

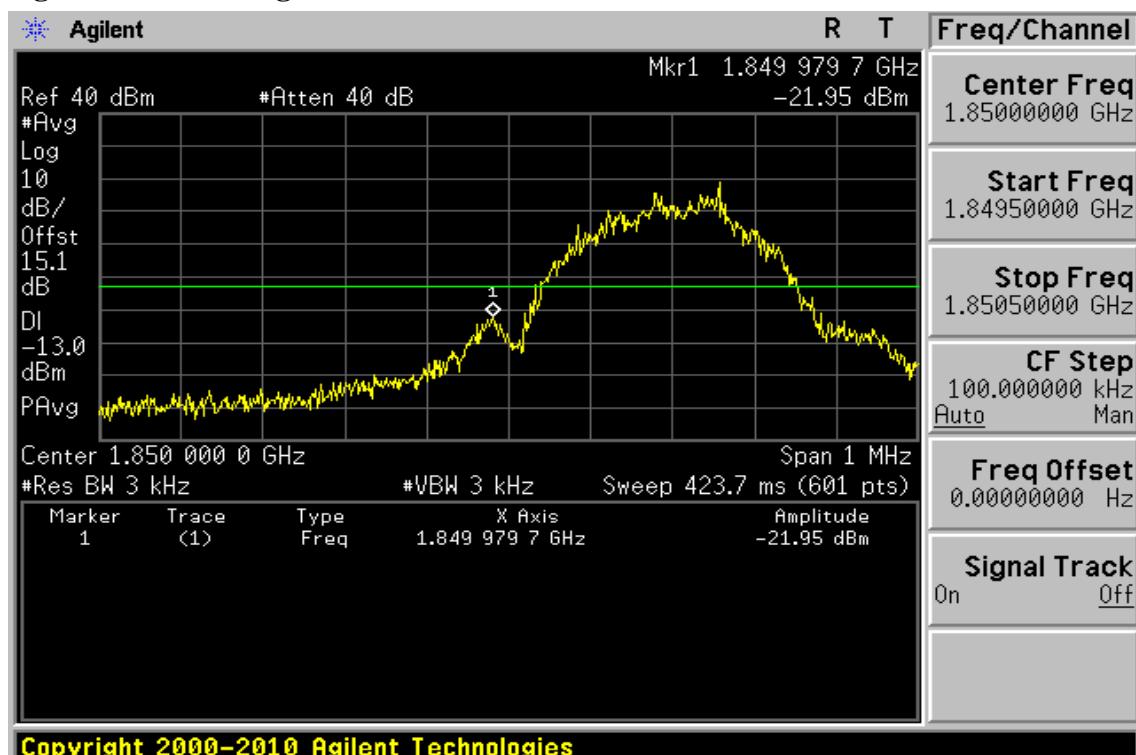


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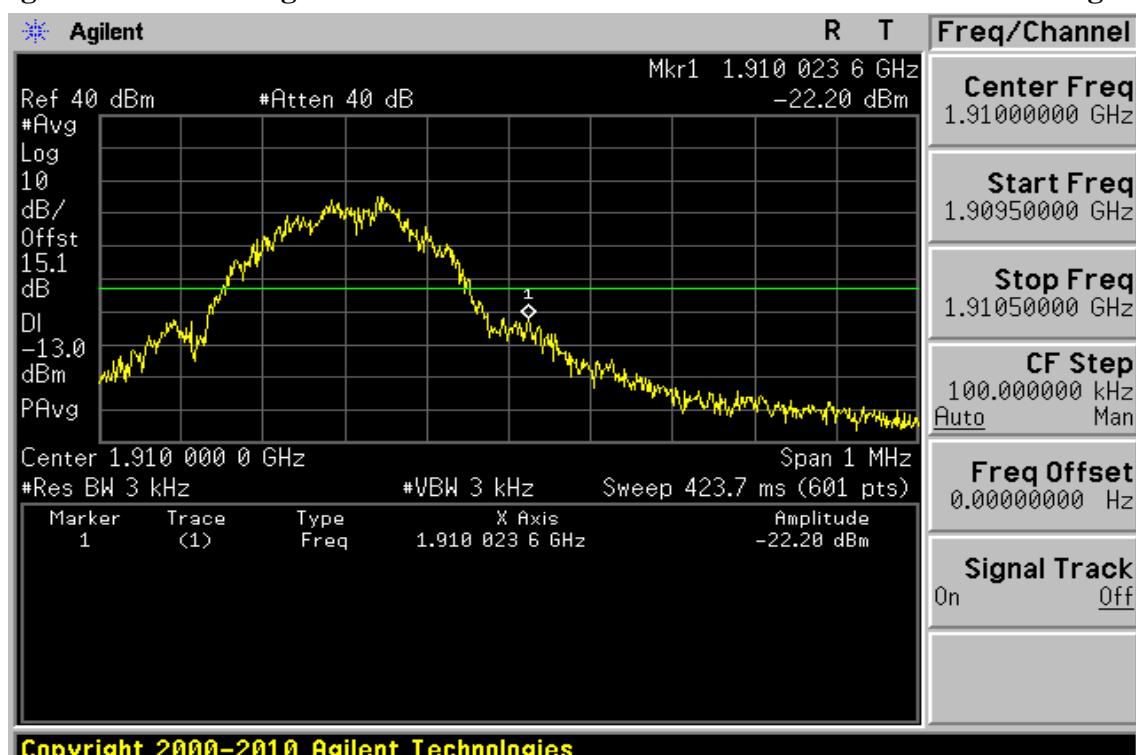
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Figure 9-29: Bad edge emission at antenna terminals – EDGE 1900 Channel Lowest



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



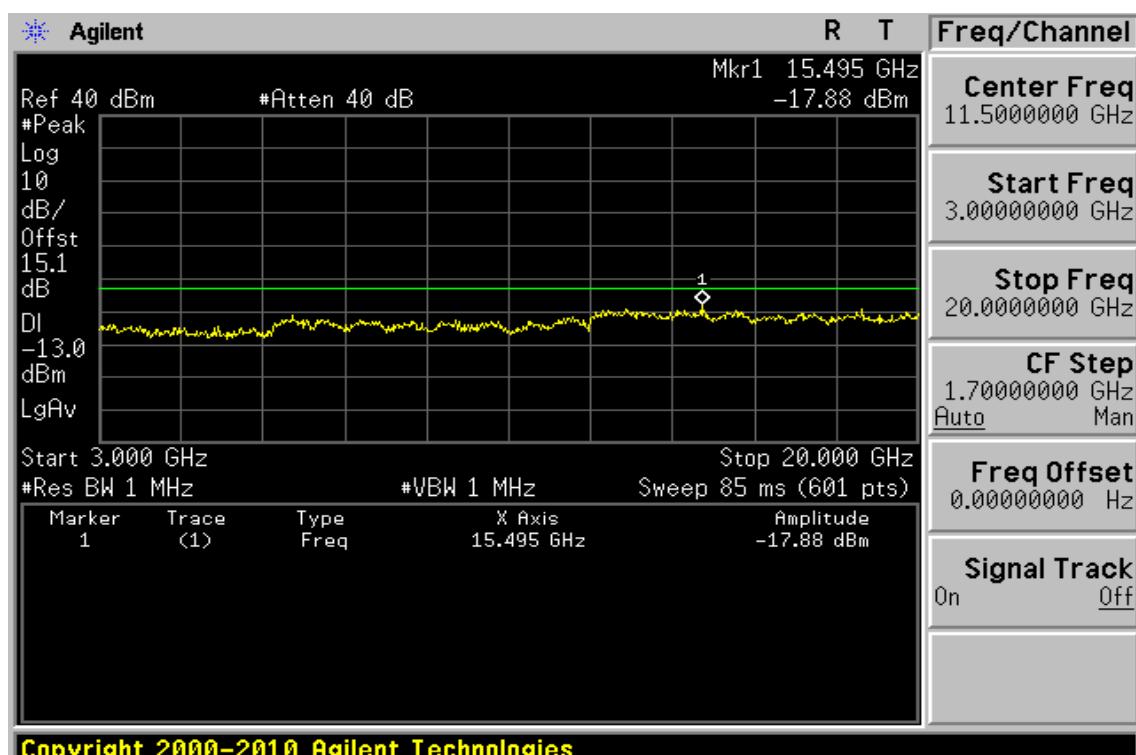
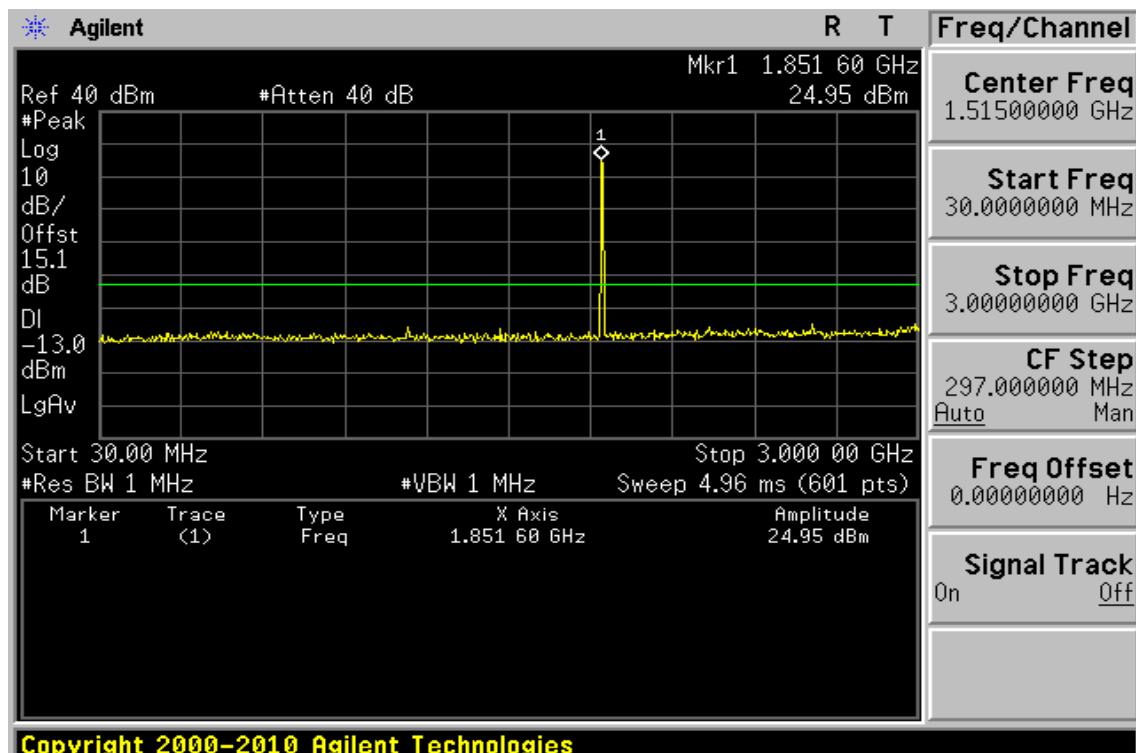
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Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest

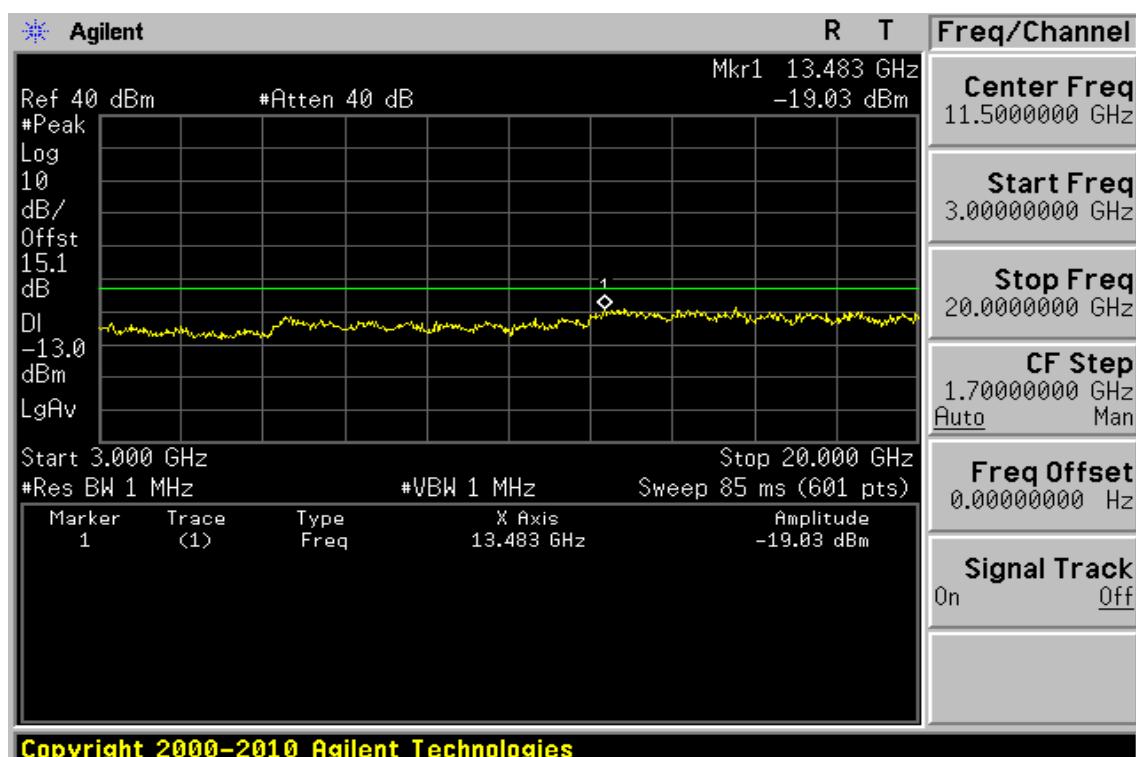
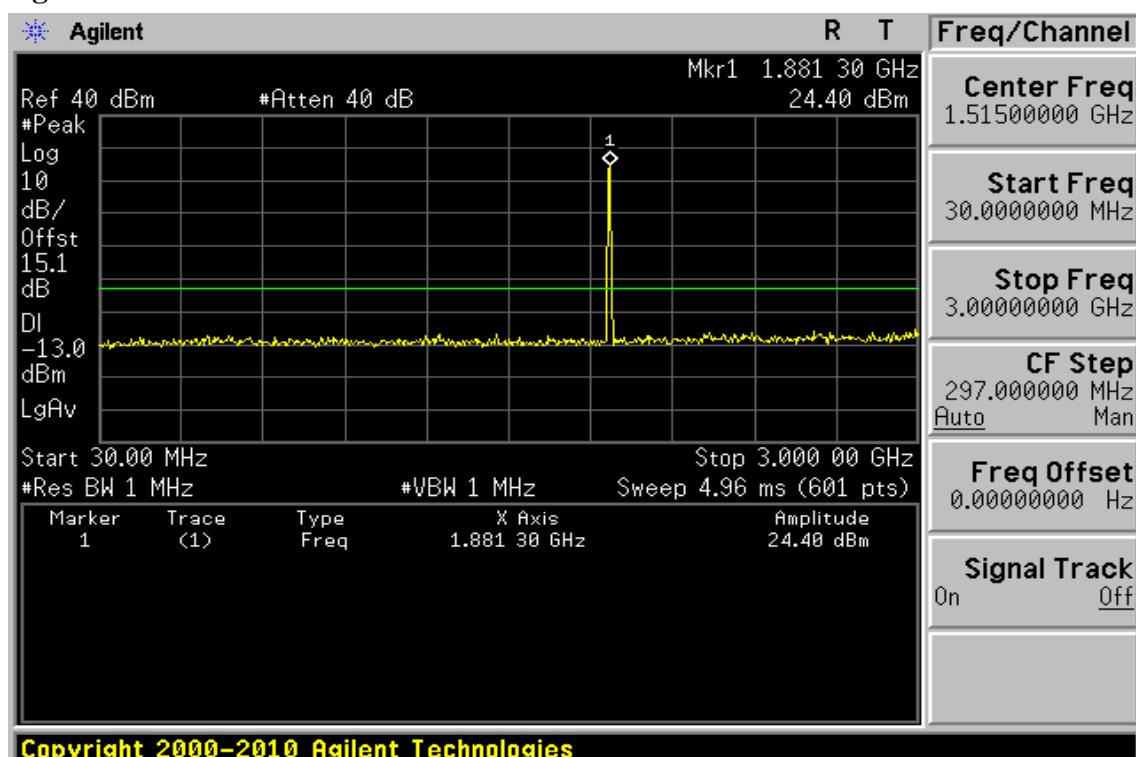


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Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid

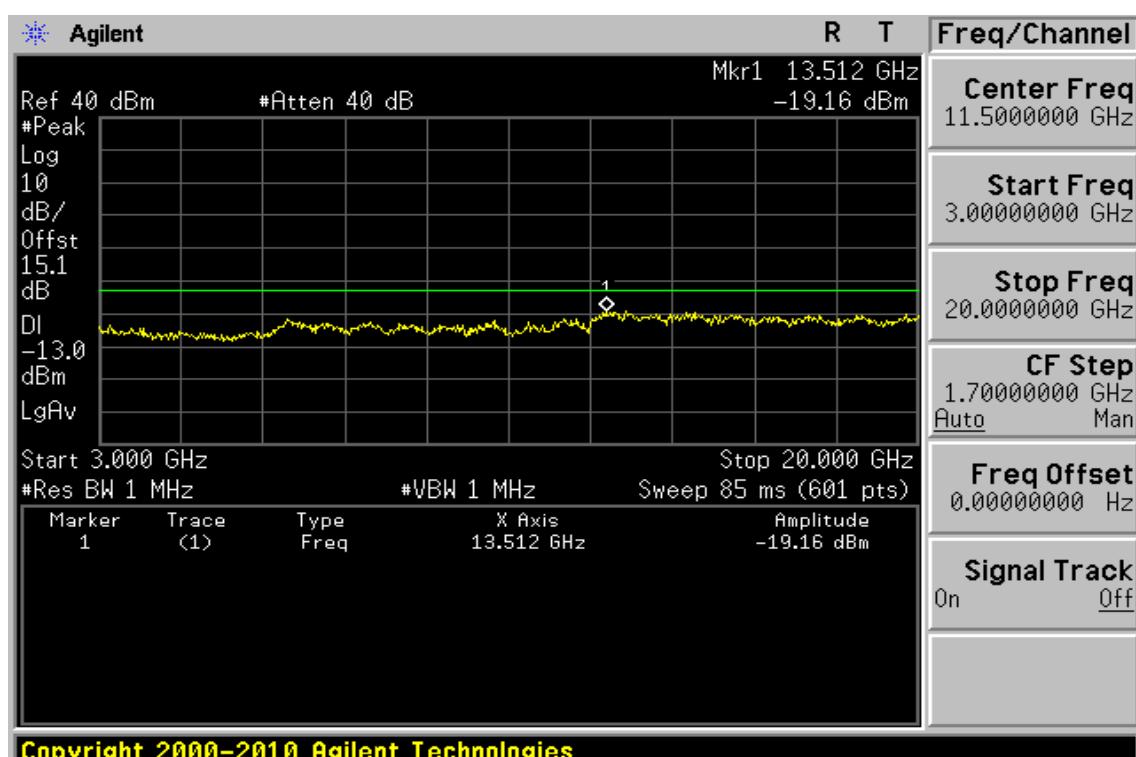
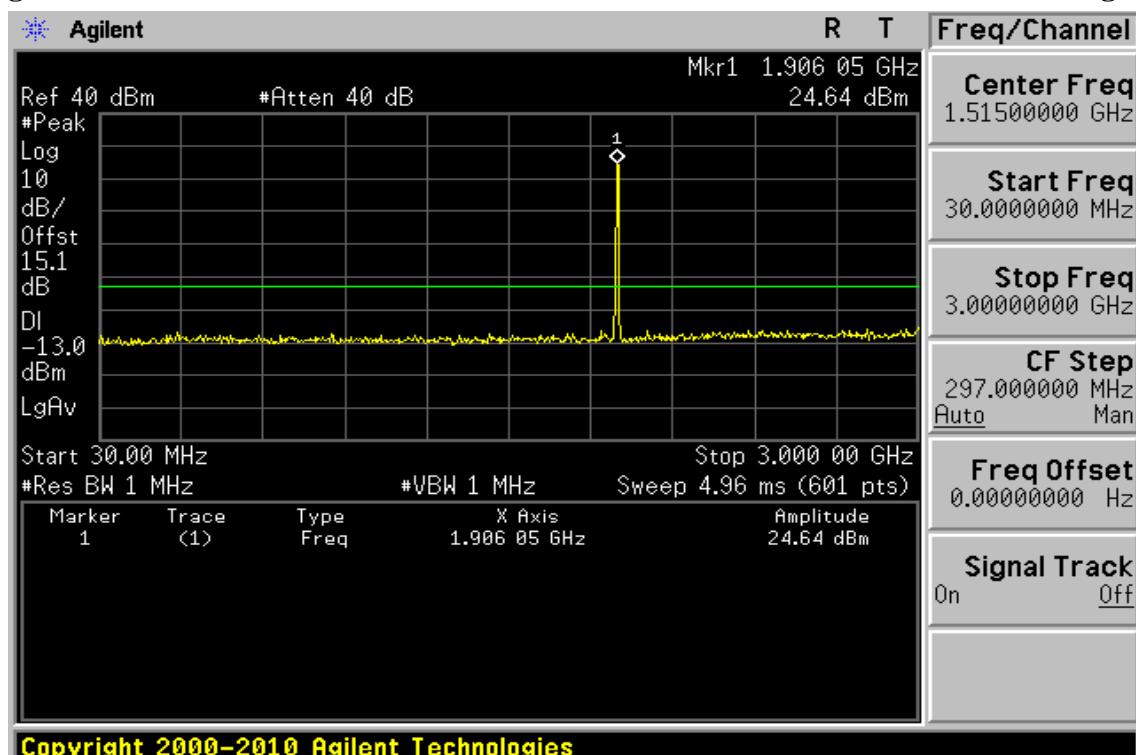


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Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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

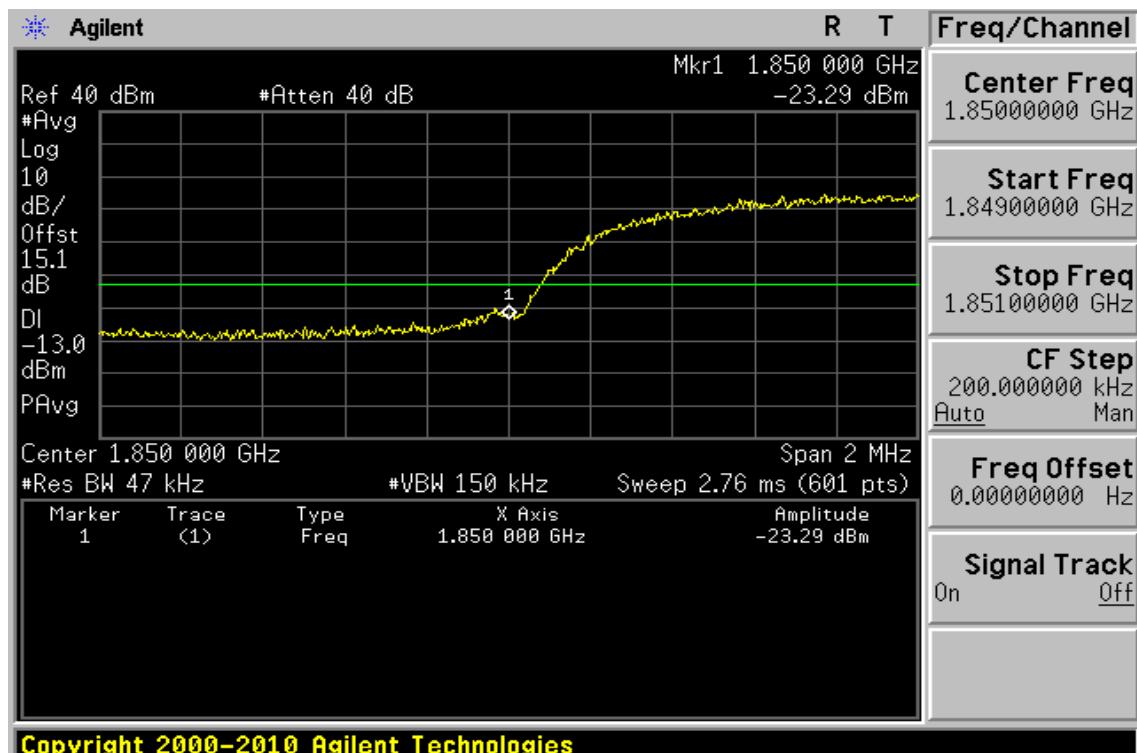
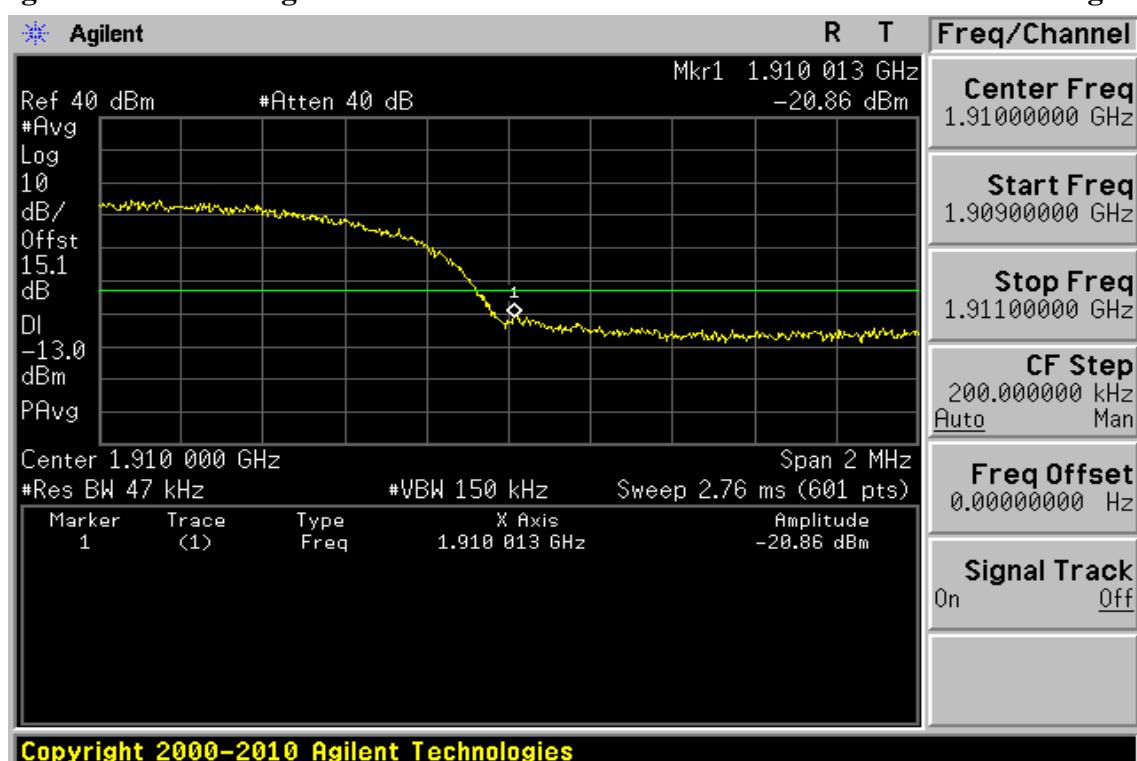


Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest

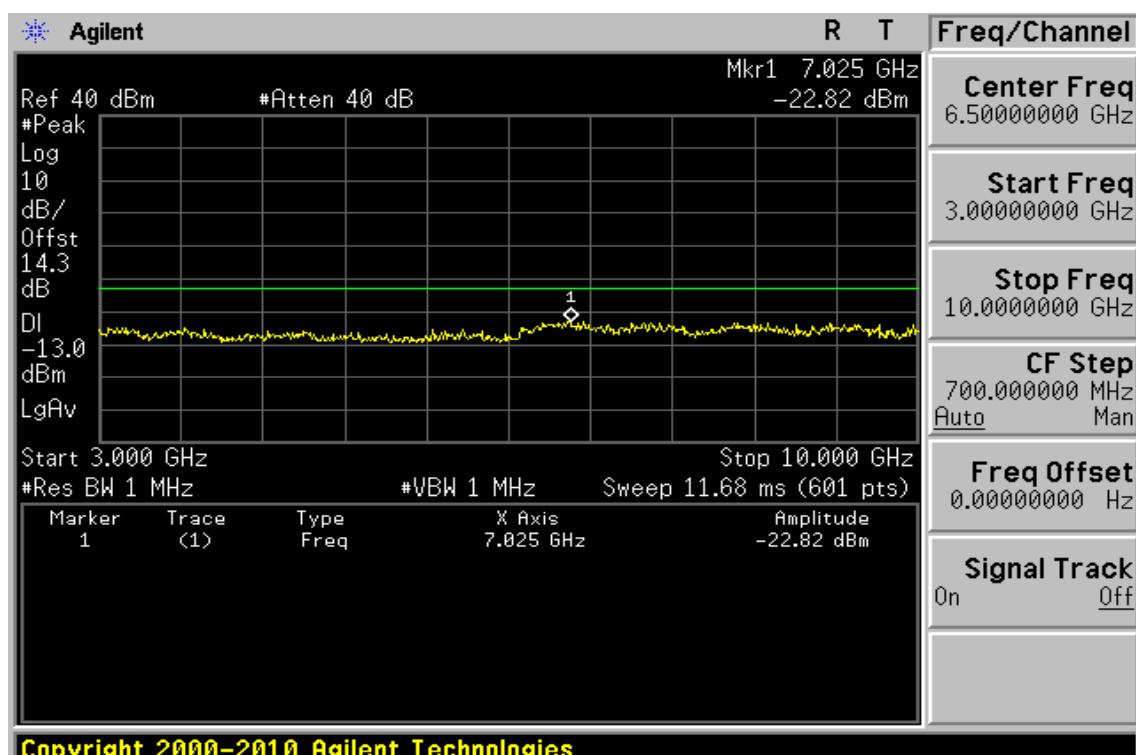
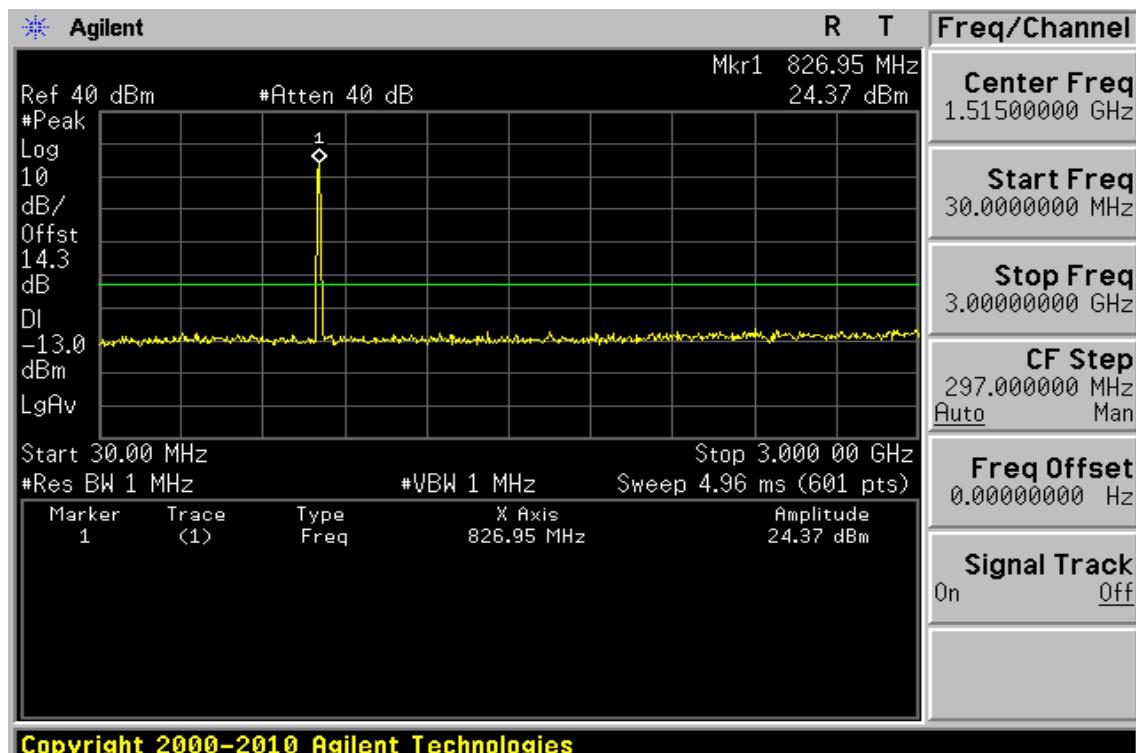


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Figure 9-36: Out of Band emission at antenna terminals – WCDMA V Channel Lowest

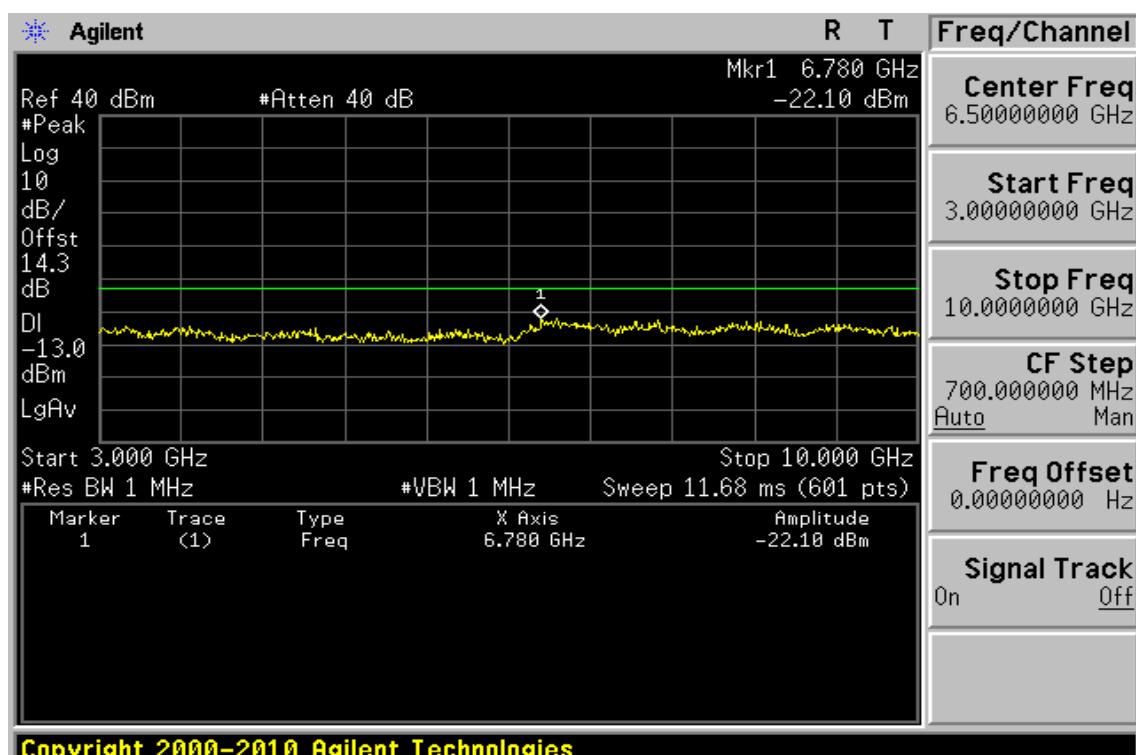
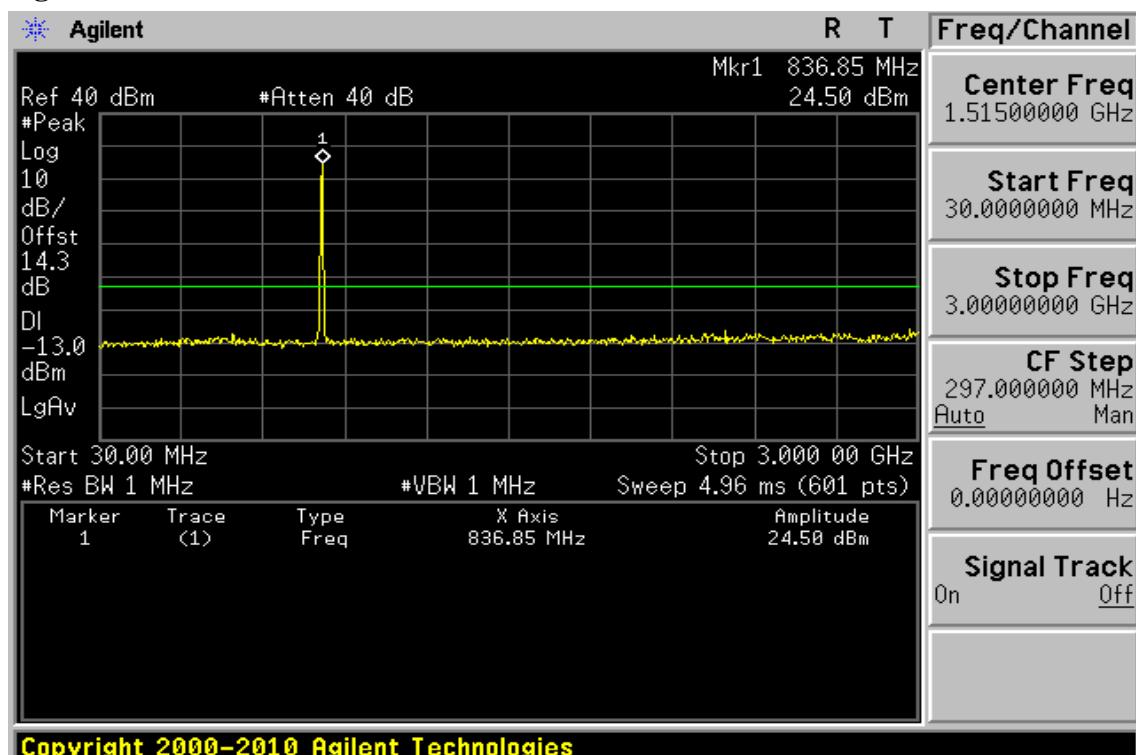


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Figure 9-37: Out of Band emission at antenna terminals – WCDMA V Channel Mid



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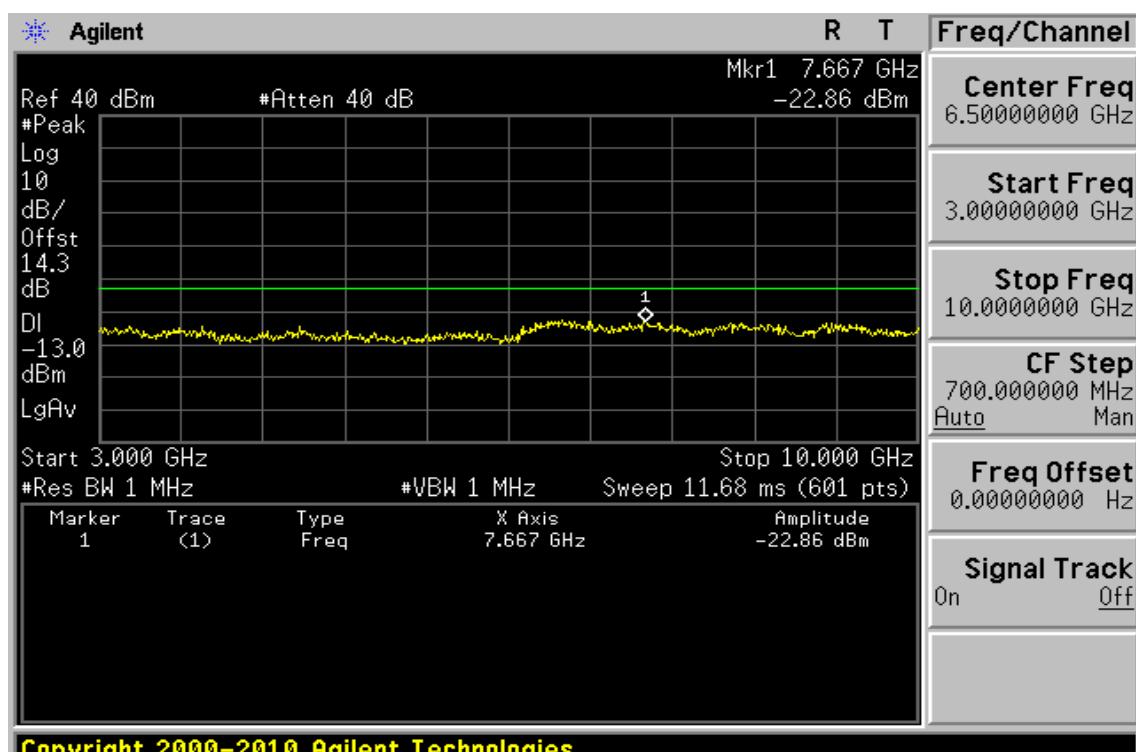
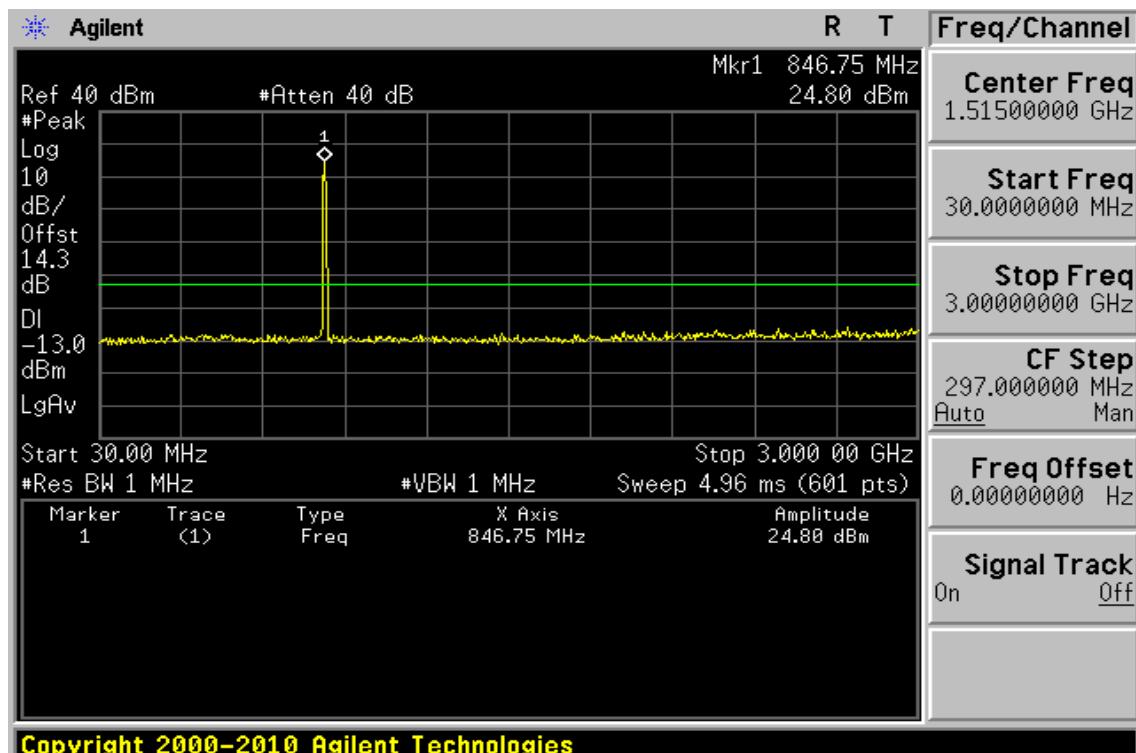
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Figure 9-38: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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Figure 9-39: Bad edge emission at antenna terminals – WCDMA V Channel Lowest

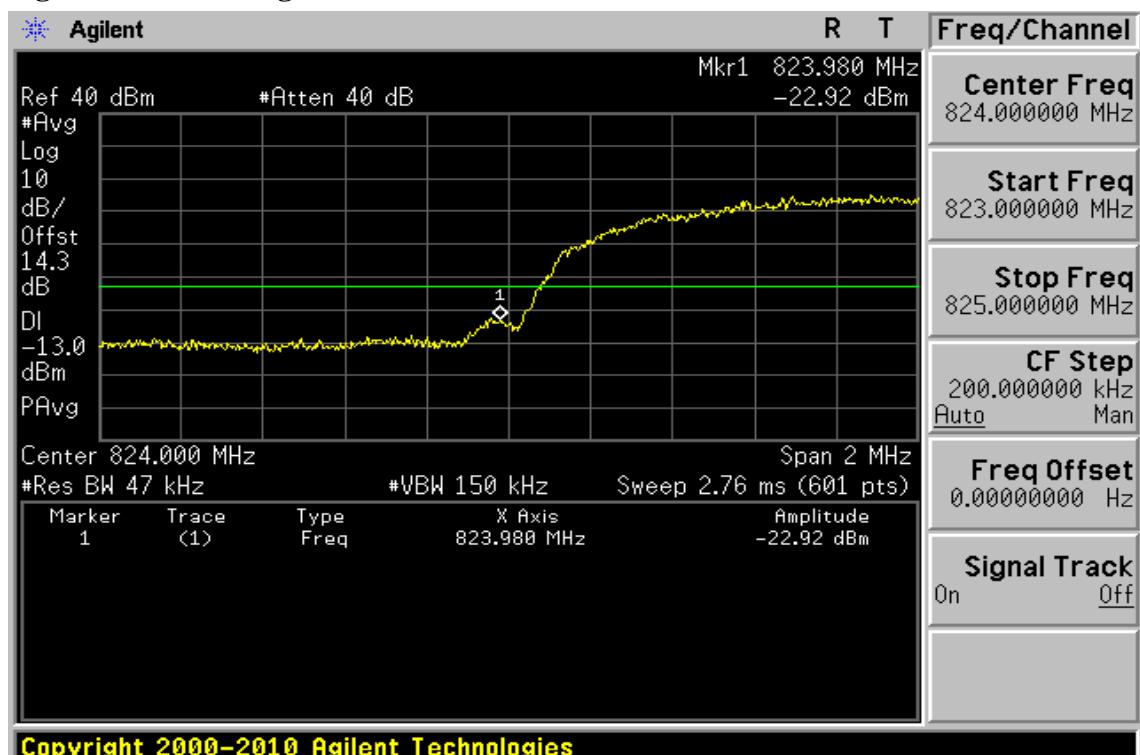
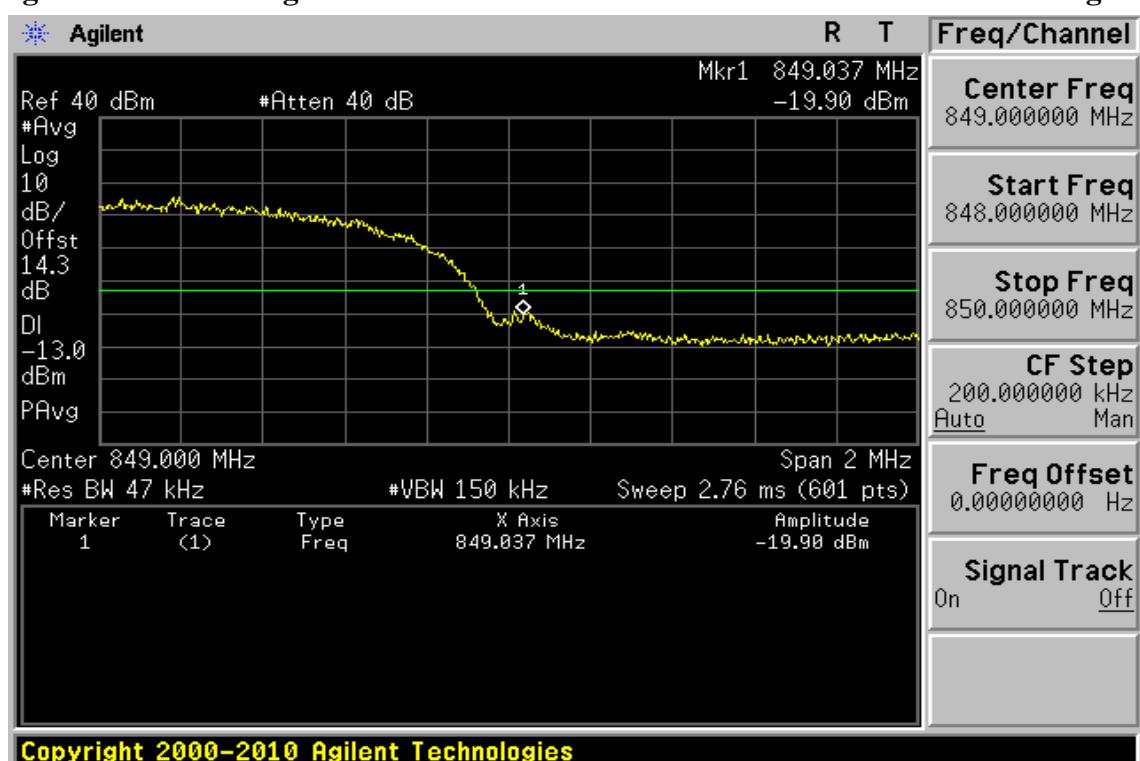


Figure 9-40: Band edge emission at antenna terminals – WCDMA V Channel Highest

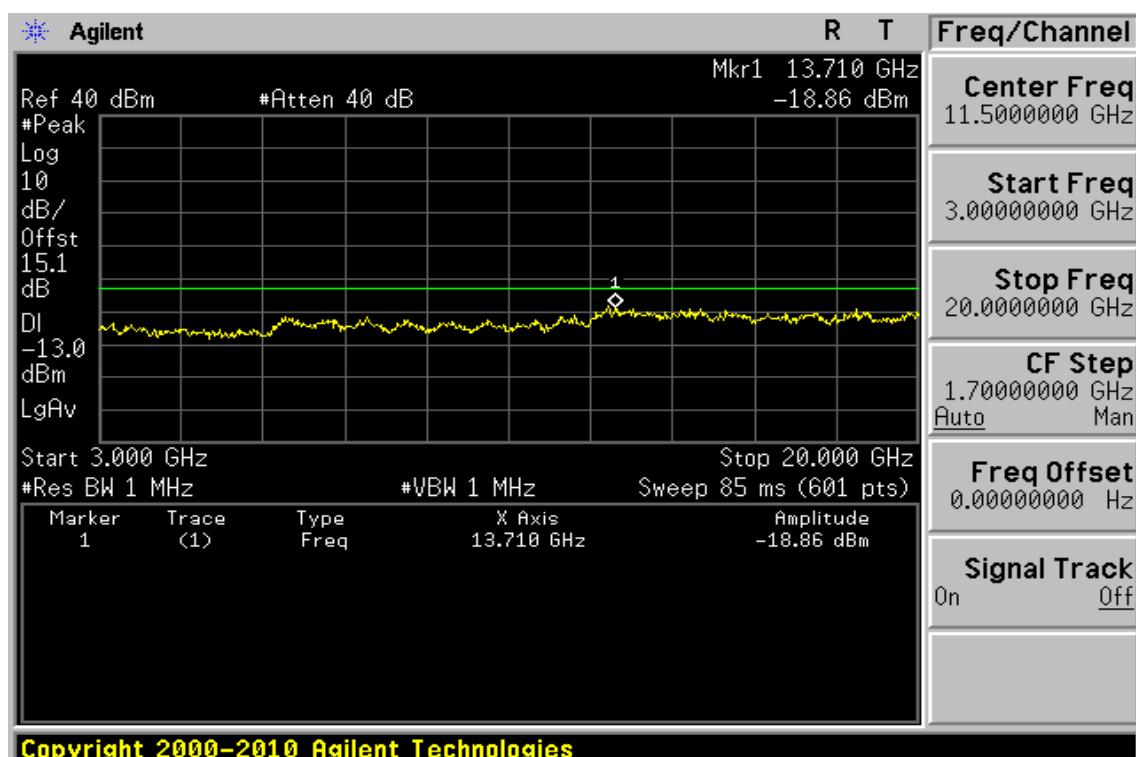
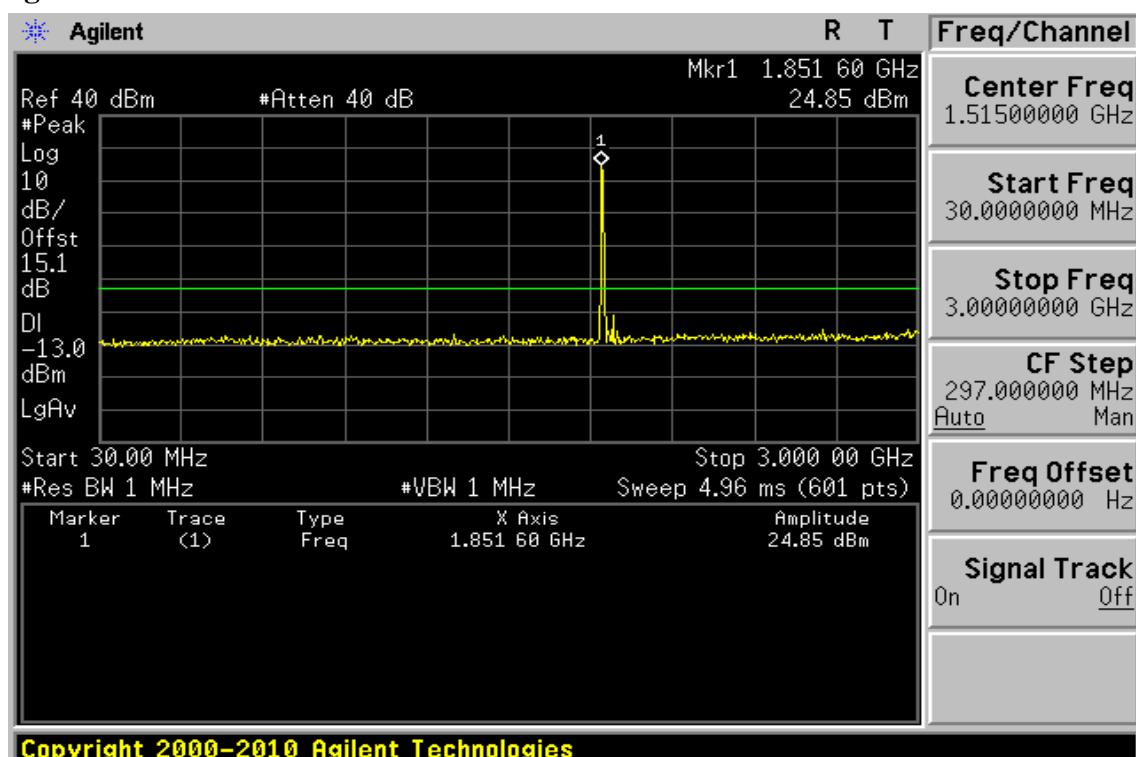


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Figure 9-41: Out of Band emission at antenna terminals – HSDPA II Channel Lowest

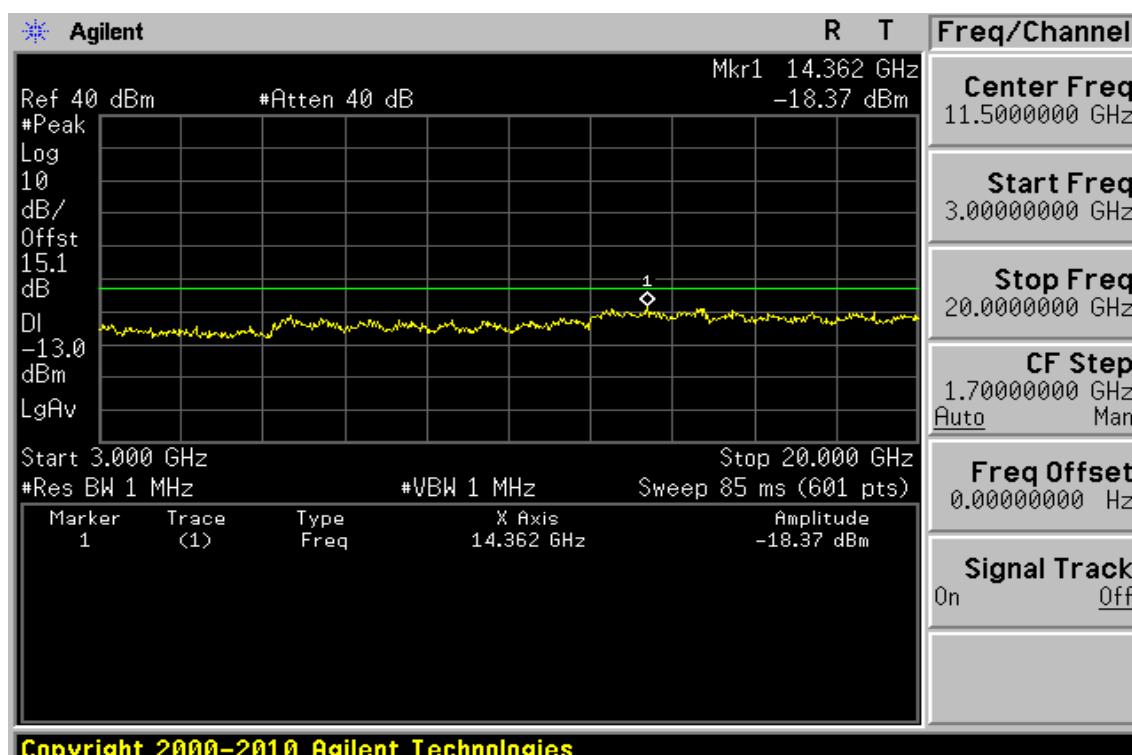
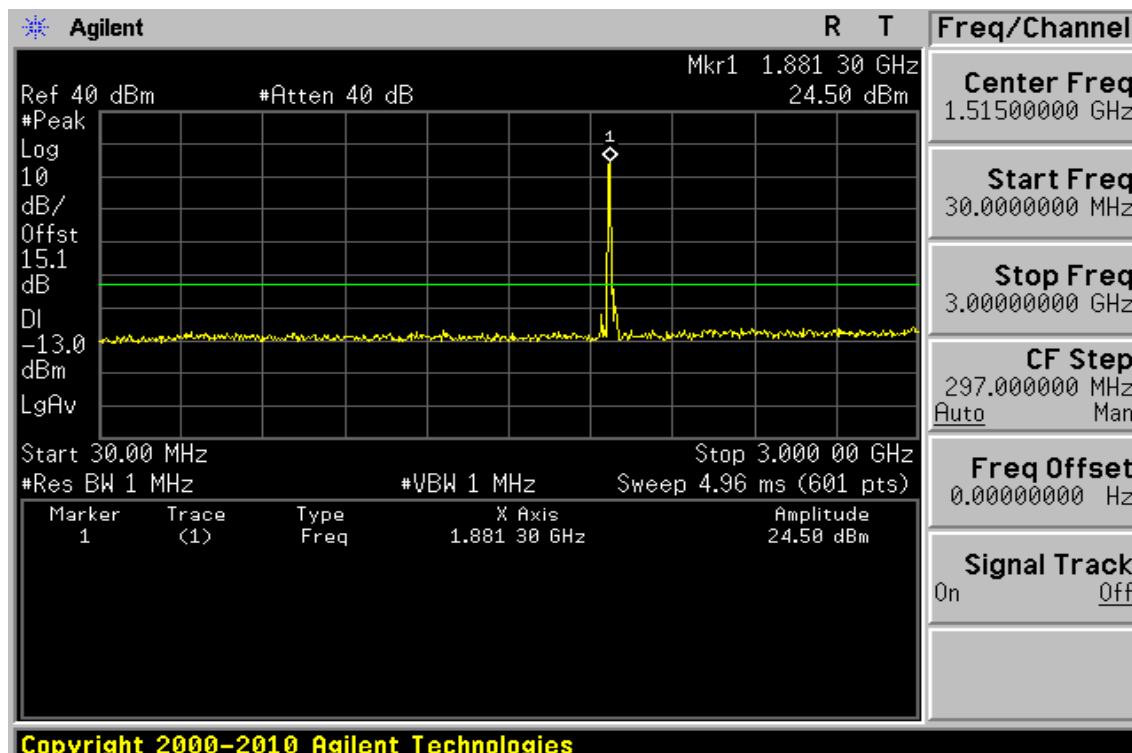


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Figure 9-42: Out of Band emission at antenna terminals – HSDPA II Channel Mid

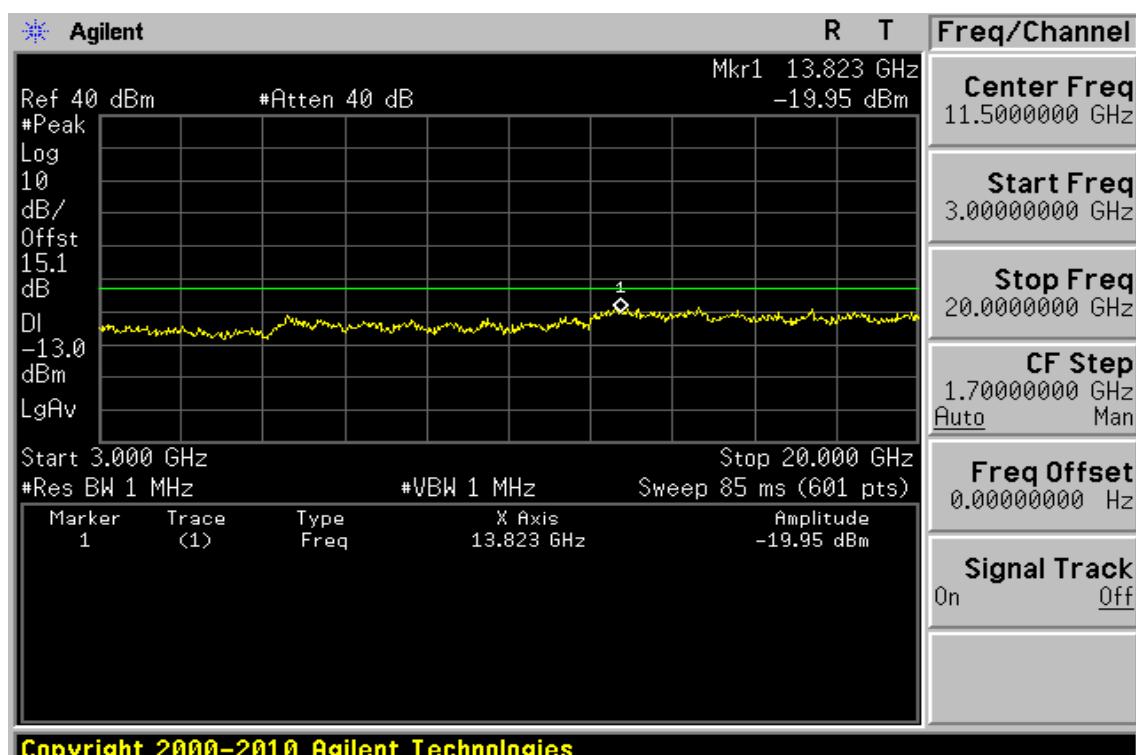
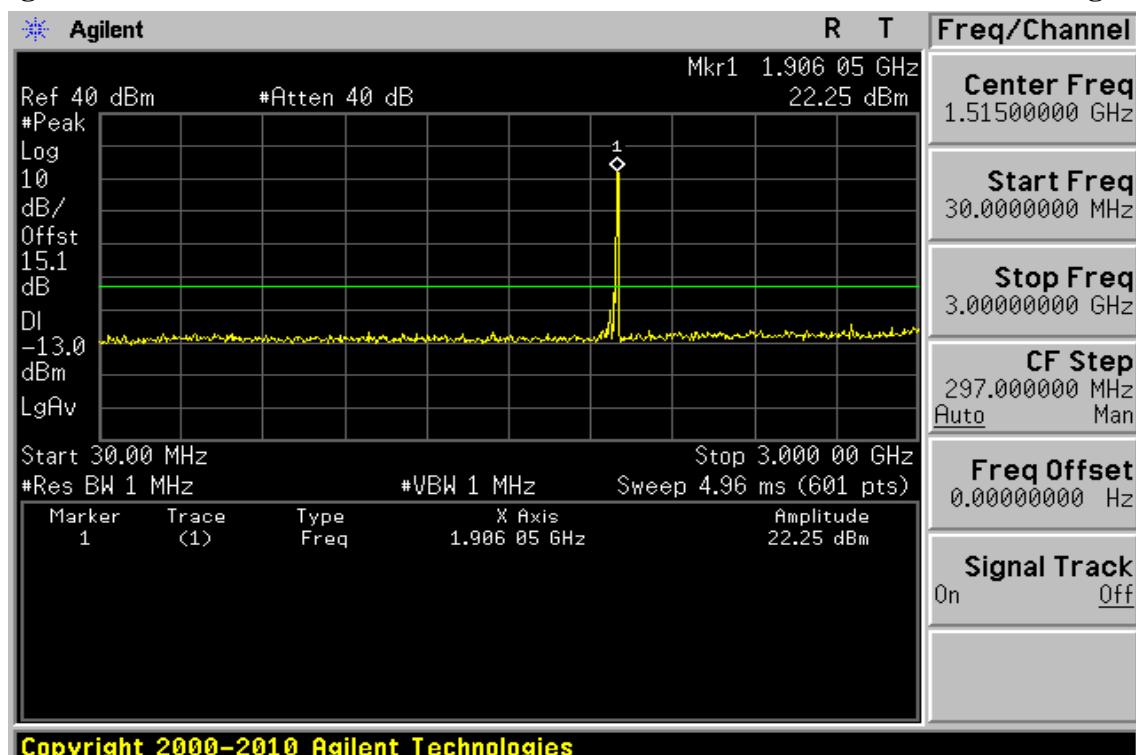


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Figure 9-43: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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Figure 9-44: Band edge emission at antenna terminals – HSDPA II Channel Lowest

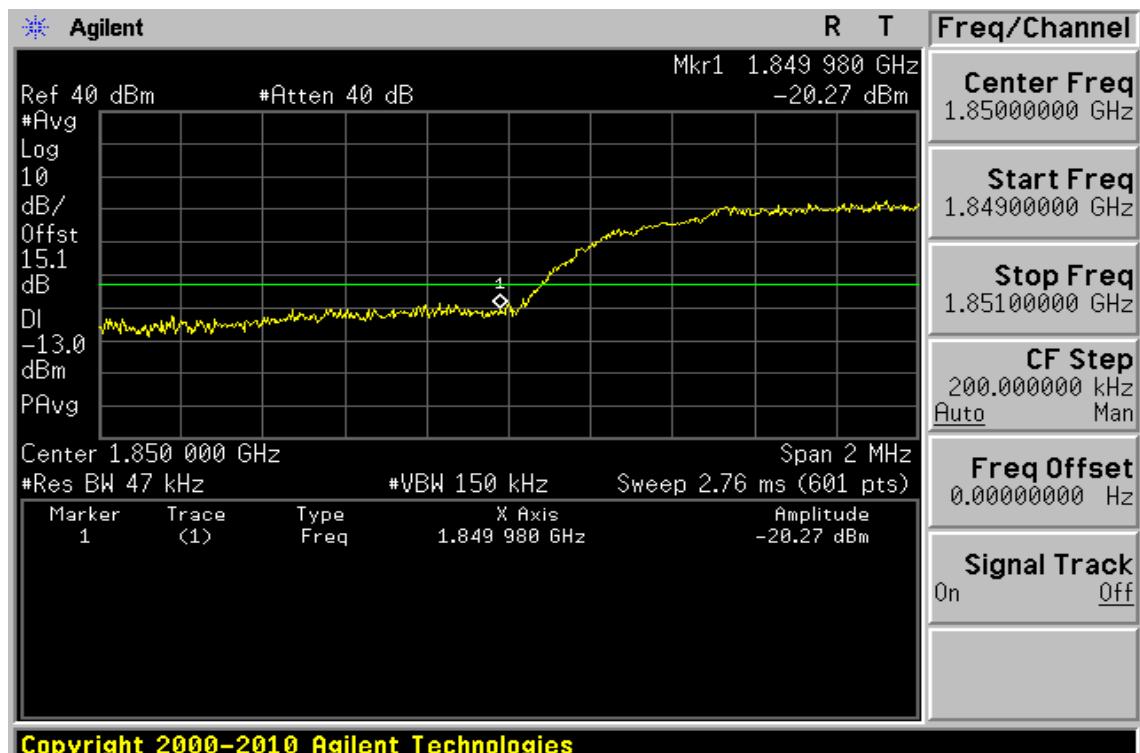
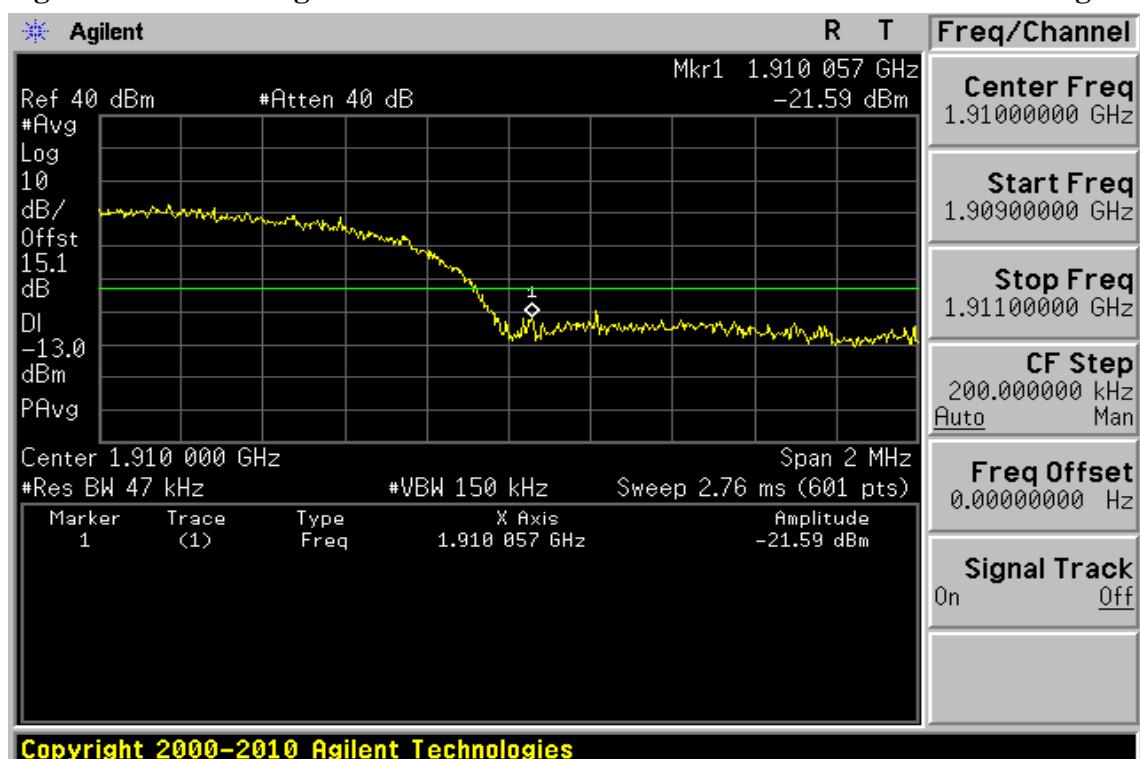


Figure 9-45: Band edge emission at antenna terminals – HSDPA II Channel Highest

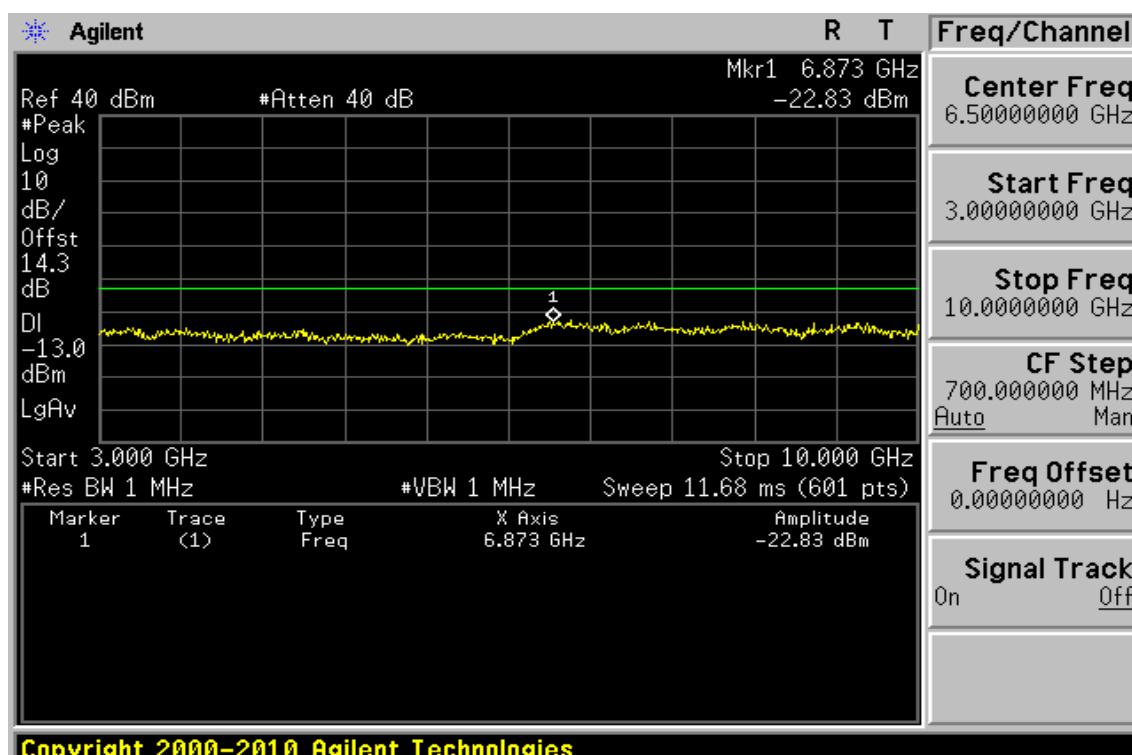
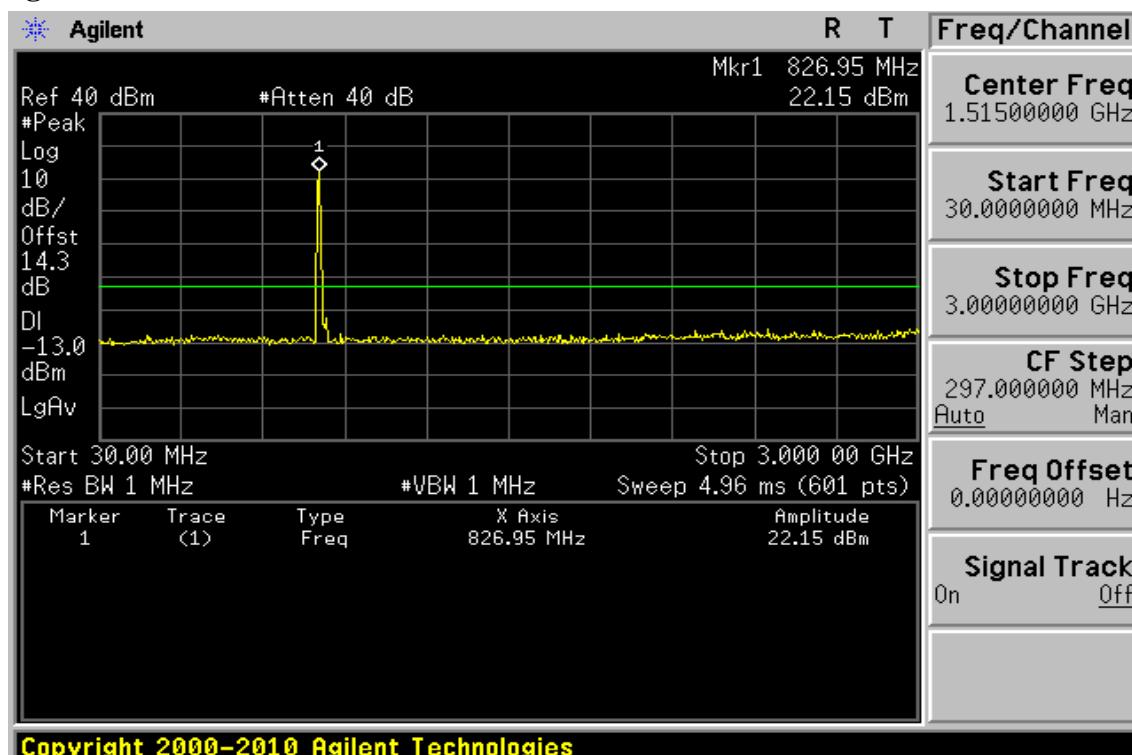


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Figure 9-46: Out of Band emission at antenna terminals – HSDPA V Channel Lowest

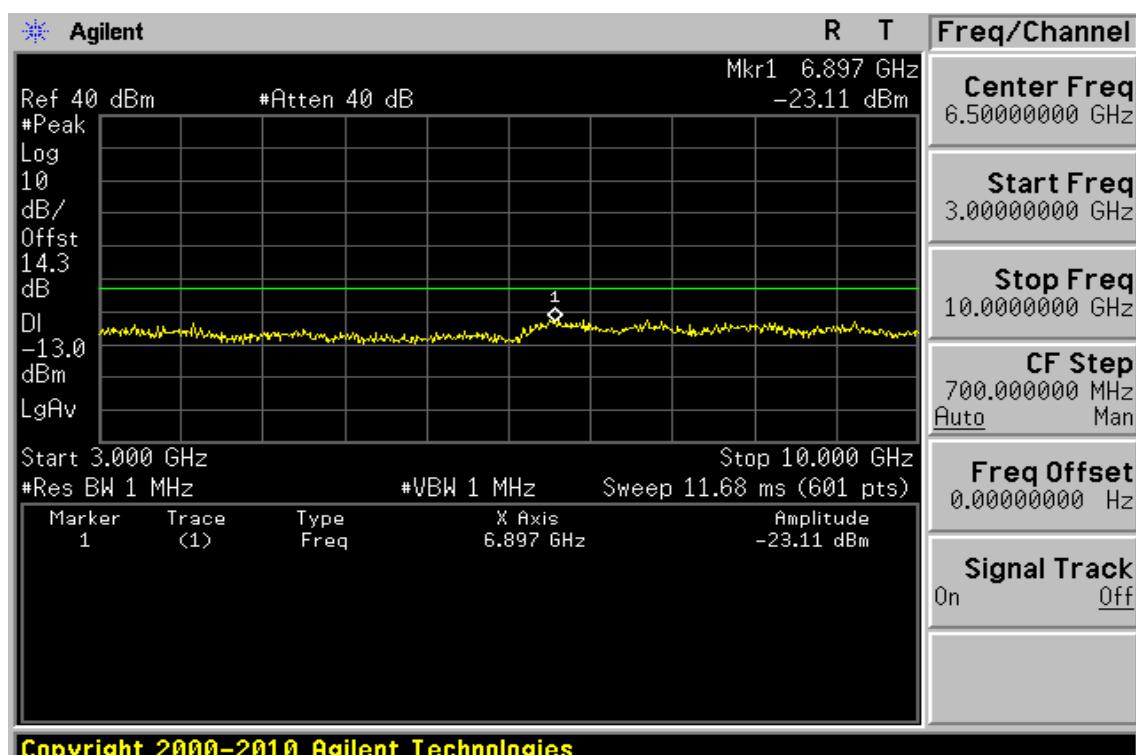
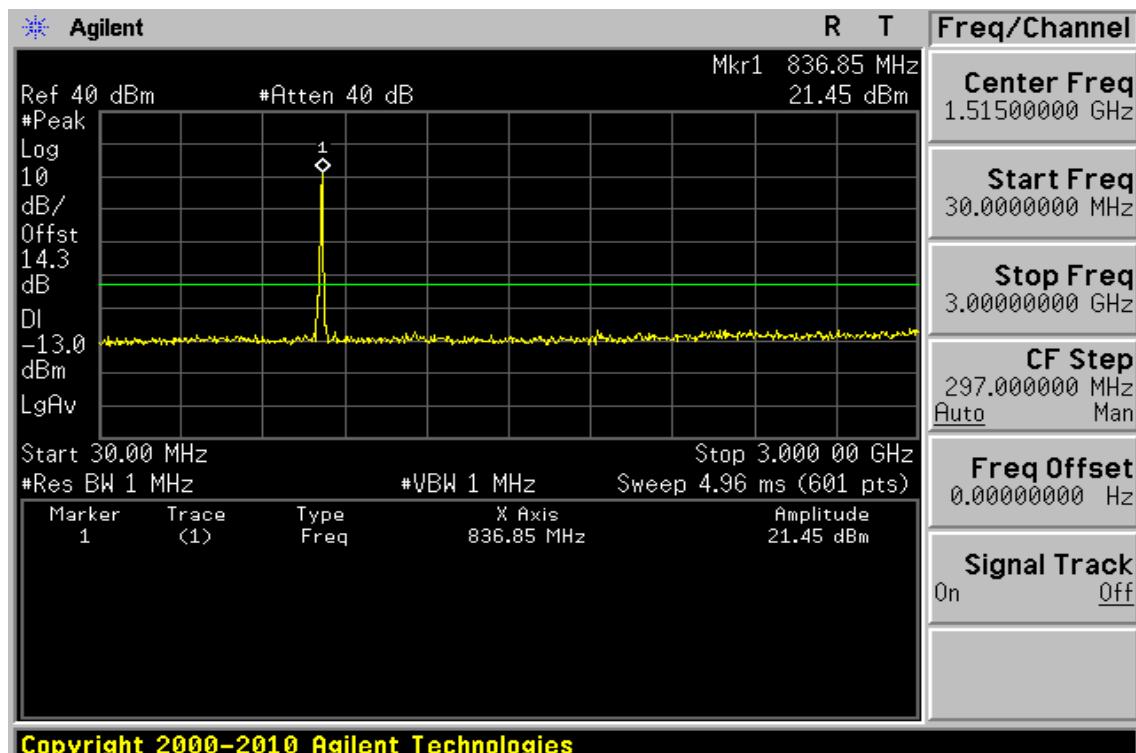


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Figure 9-47: Out of Band emission at antenna terminals – HSDPA V Channel Mid

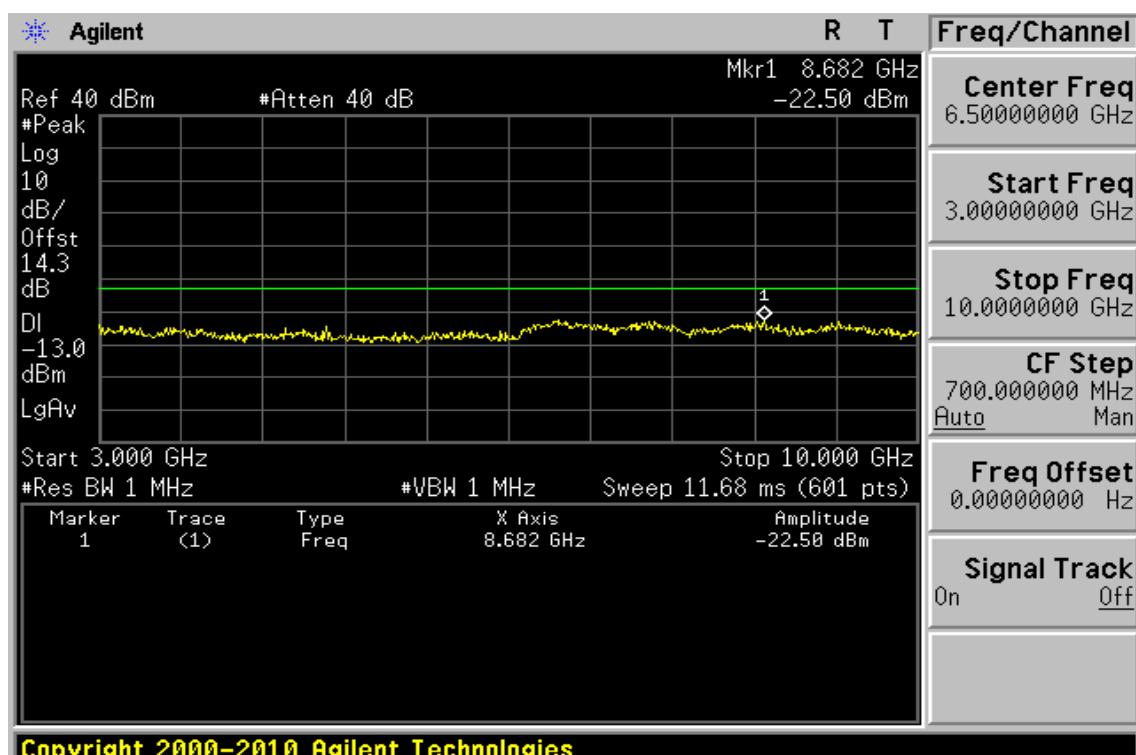
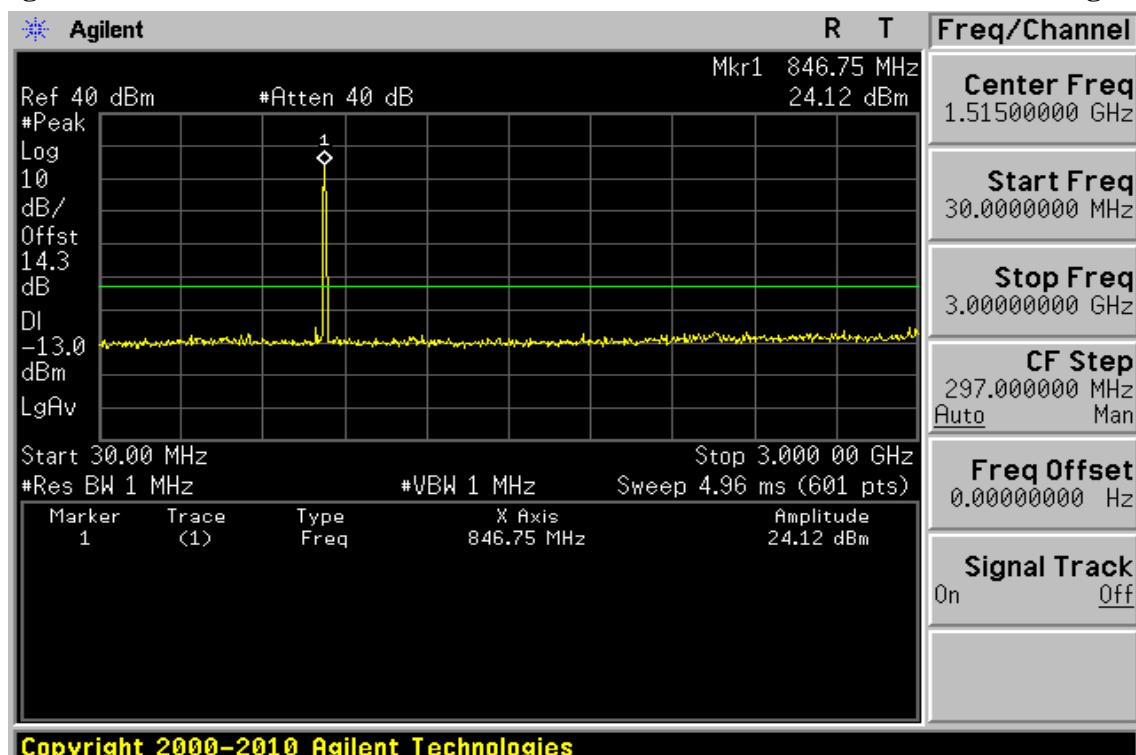


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Figure 9-48: Out of Band emission at antenna terminals – HSDPA V Channel Highest

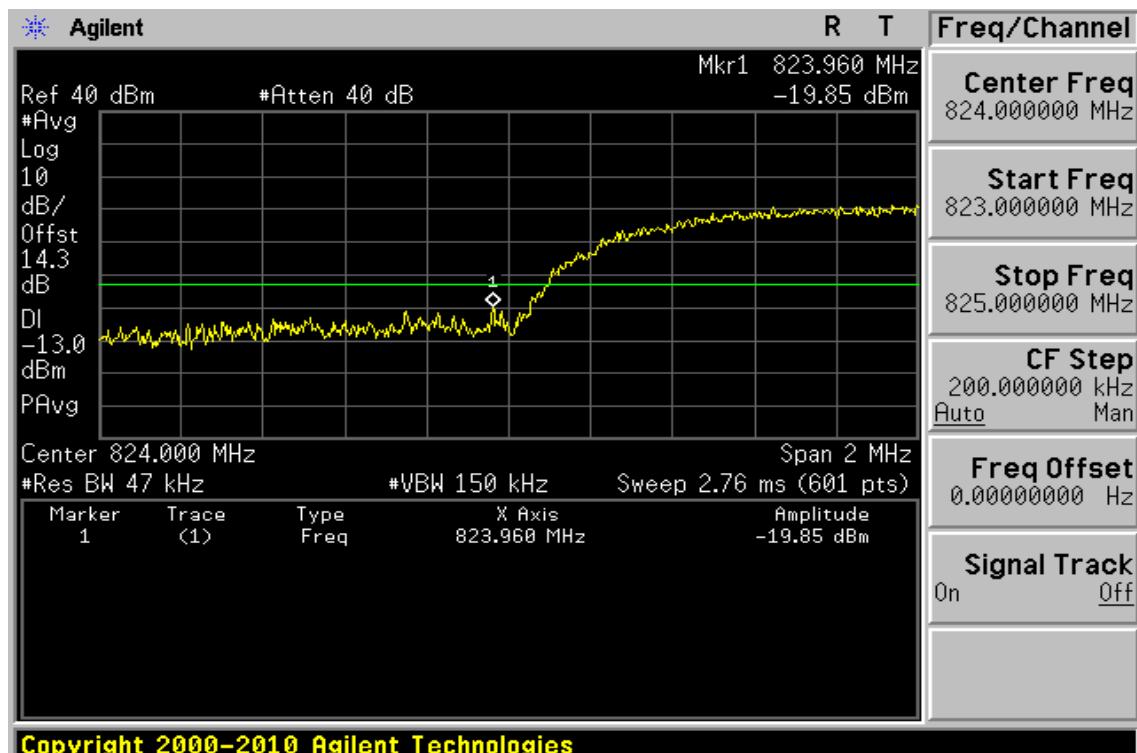


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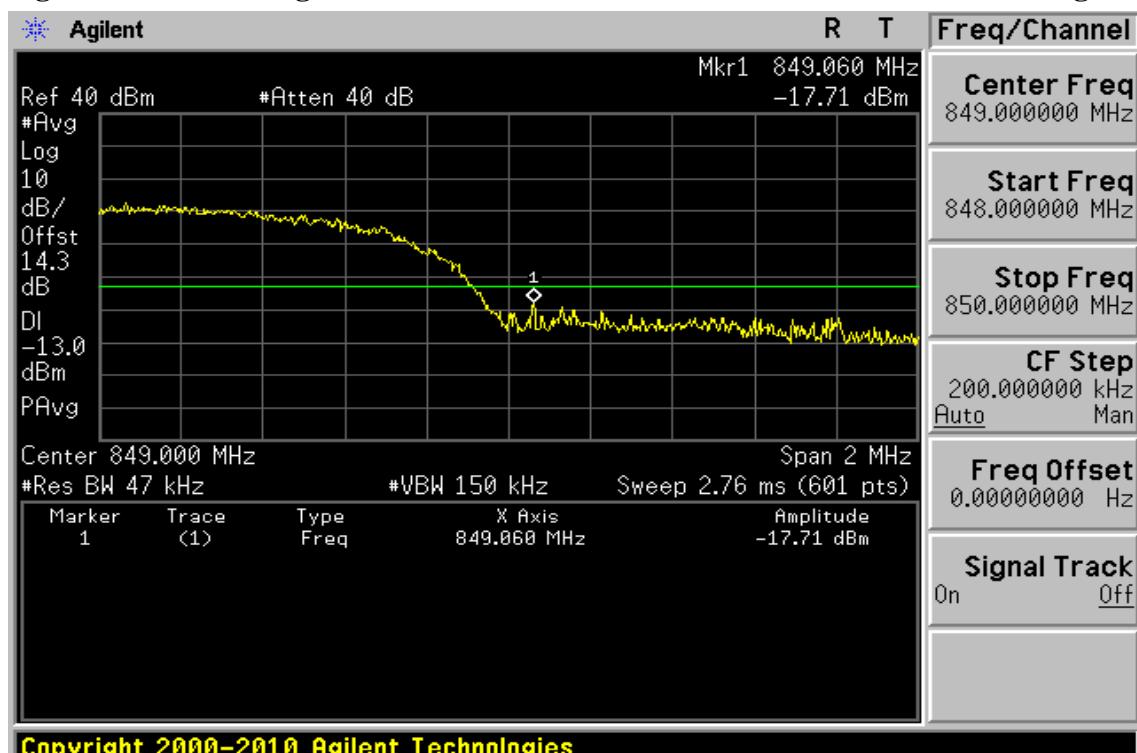
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Figure 9-49: Band edge emission at antenna terminals – HSDPA V Channel Lowest



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



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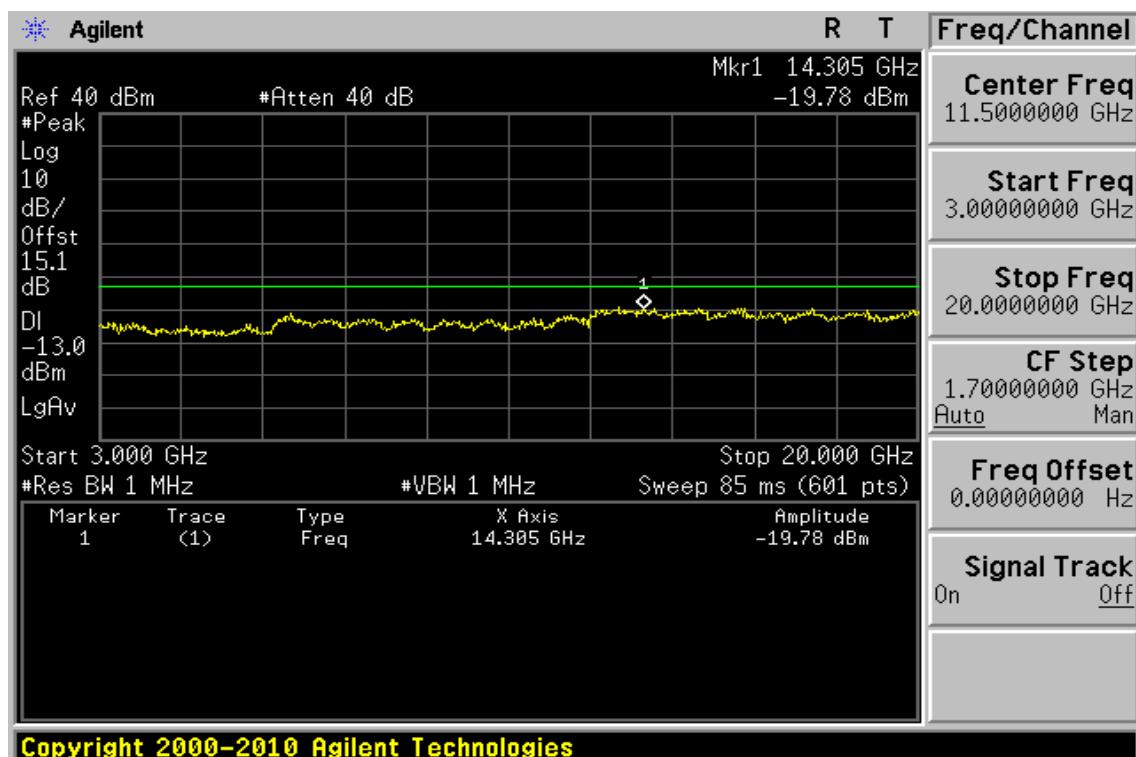
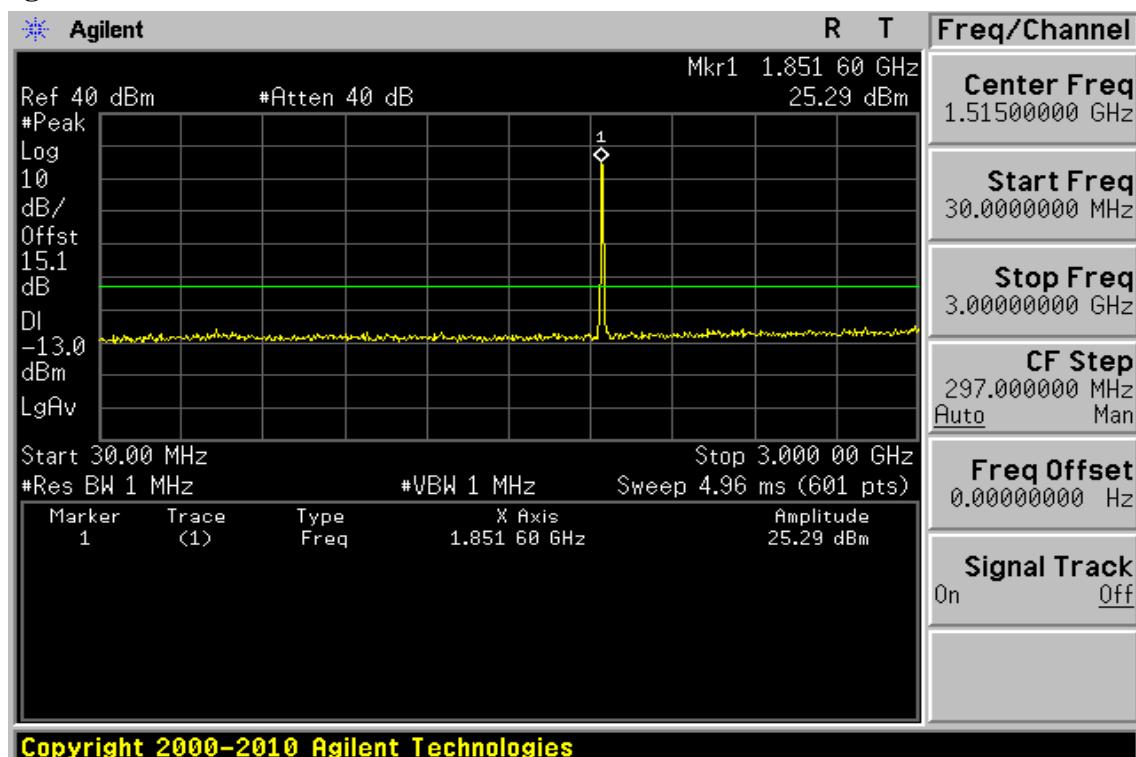
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Figure 9-51: Out of Band emission at antenna terminals – HSUPA II Channel Lowest

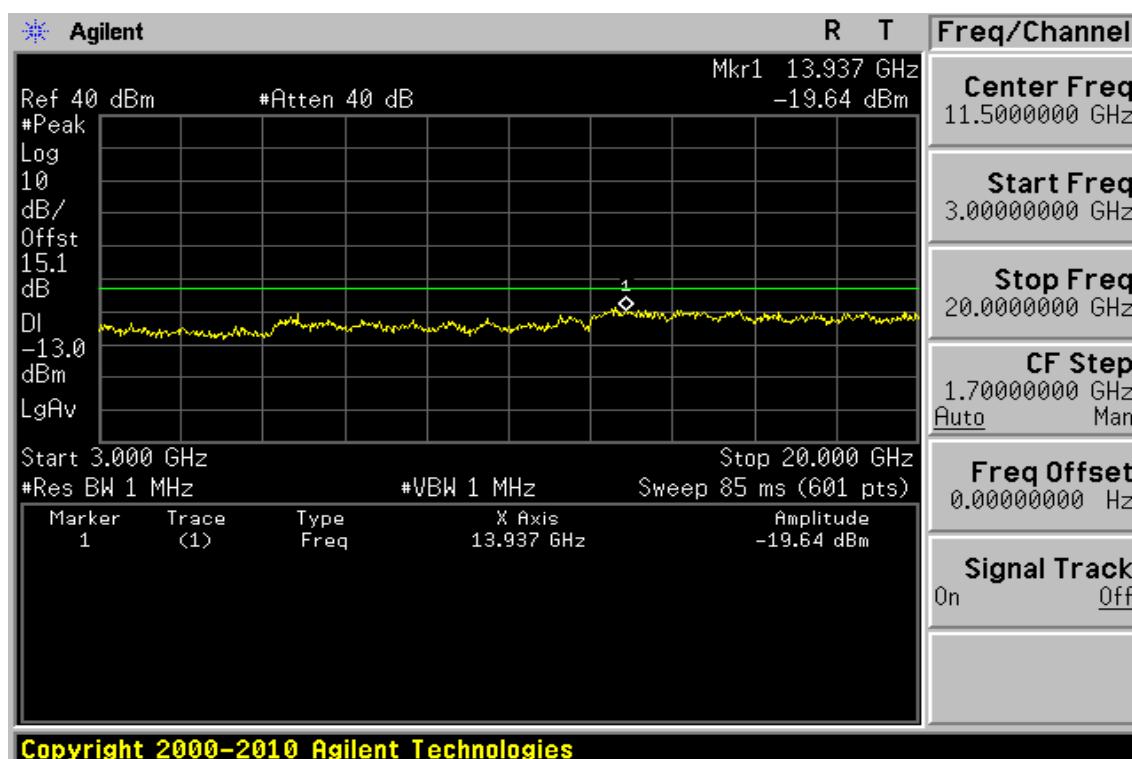
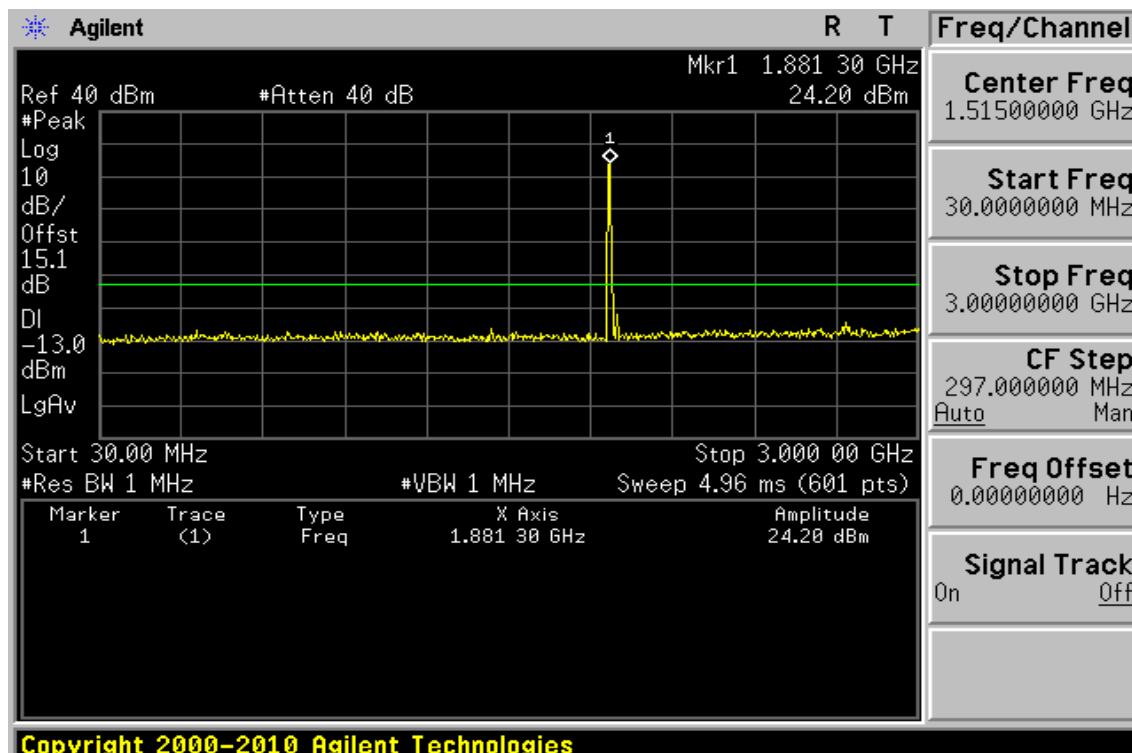


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Figure 9-52: Out of Band emission at antenna terminals – HSUPA II Channel Mid

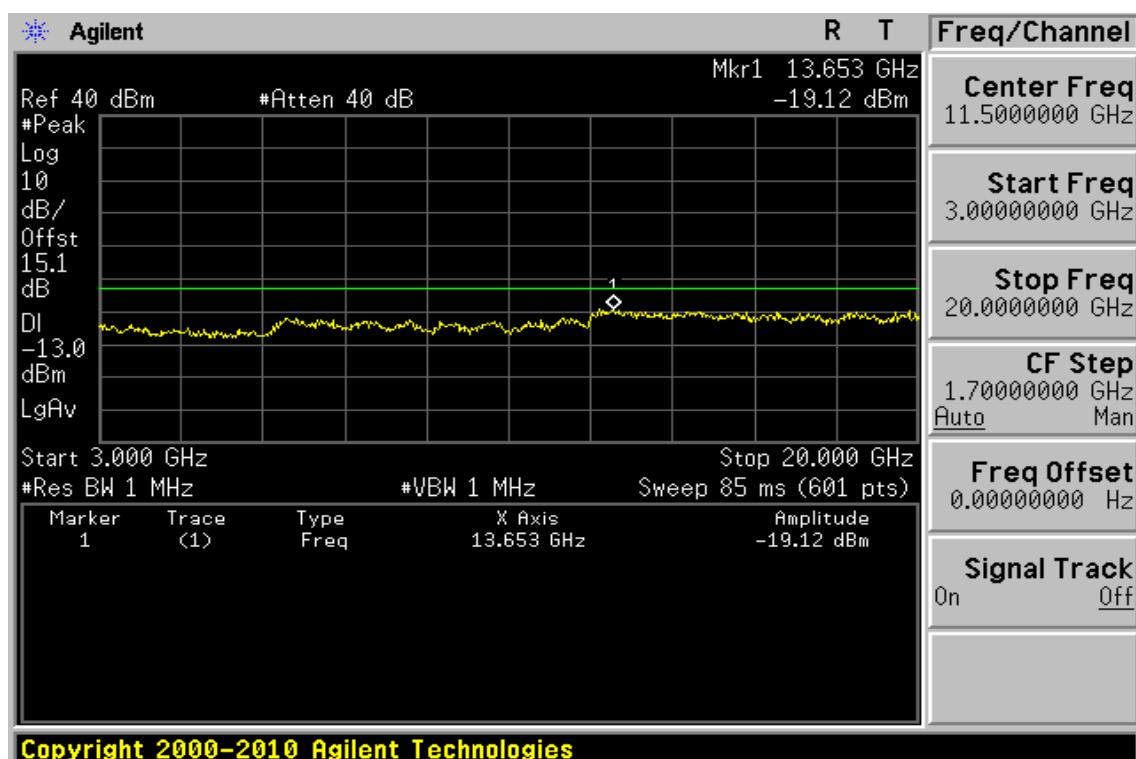
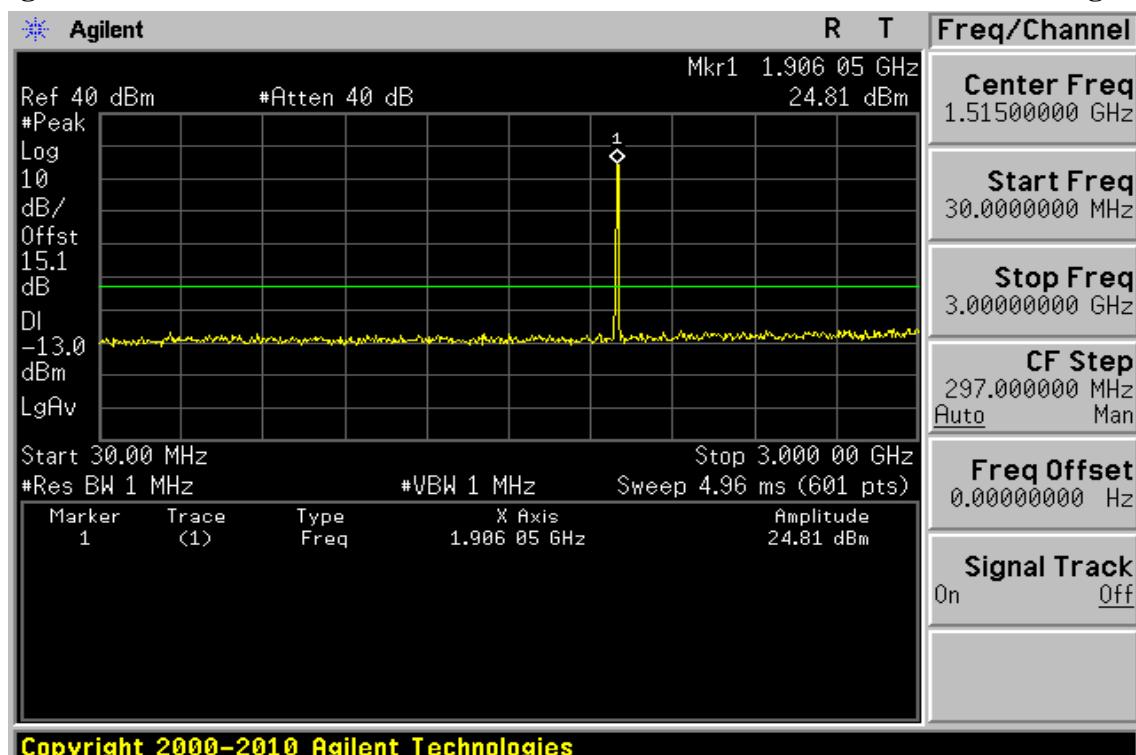


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Figure 9-53: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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Figure 9-54: Band edge emission at antenna terminals – HSUPA II Channel Lowest

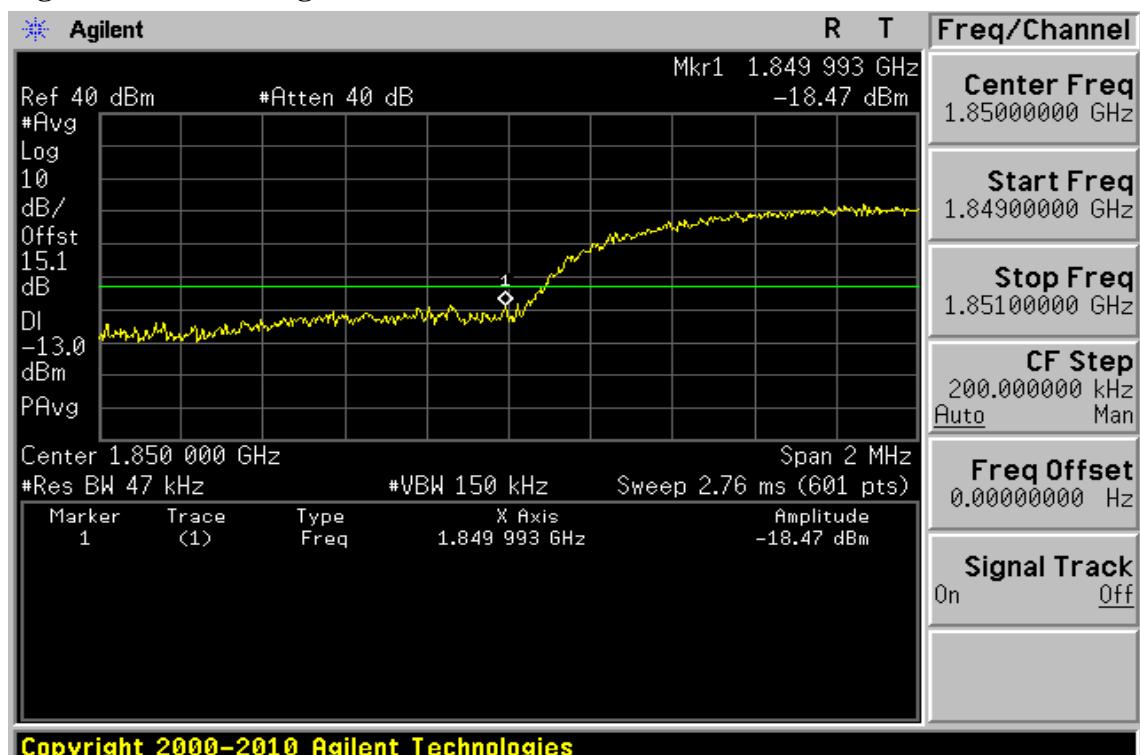
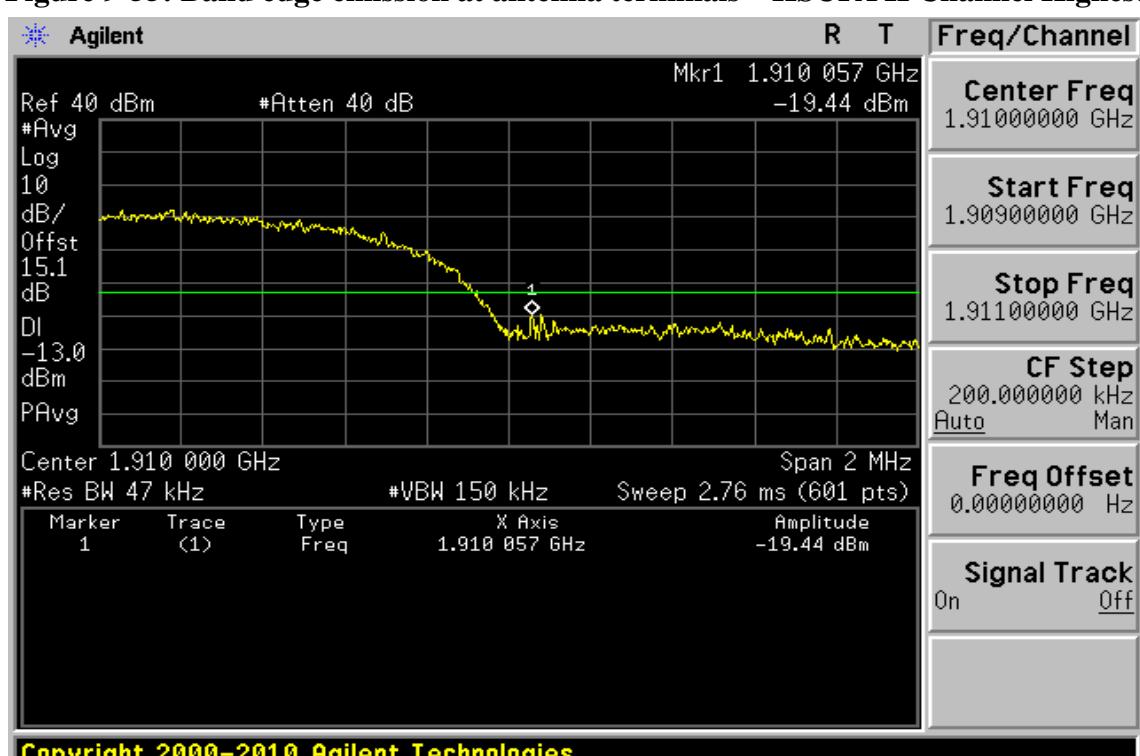


Figure 9-55: Band edge emission at antenna terminals – HSUPA II Channel Highest

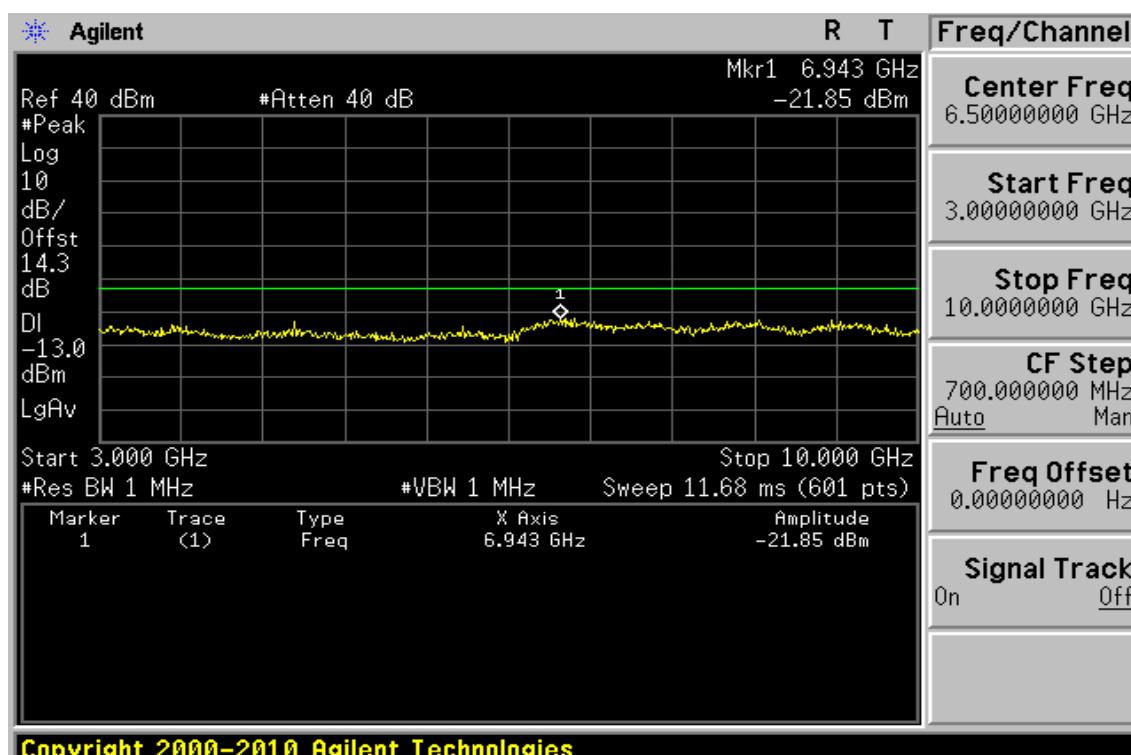
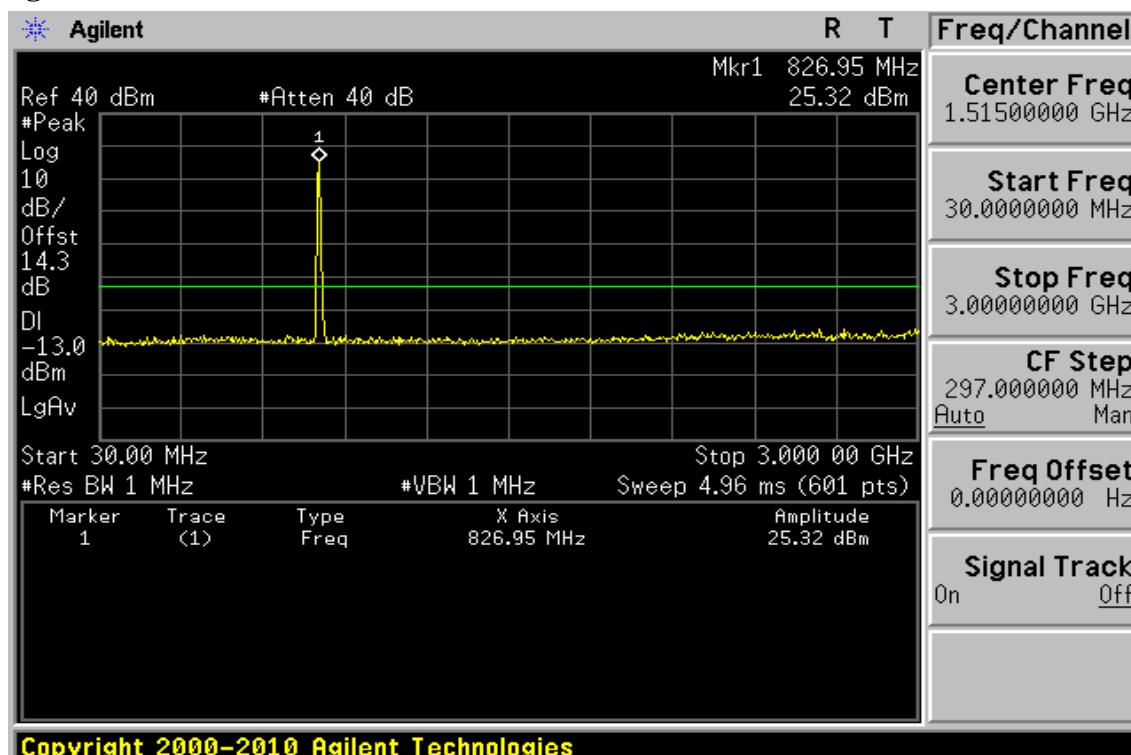


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Figure 9-56: Out of Band emission at antenna terminals – HSUPA V Channel Lowest

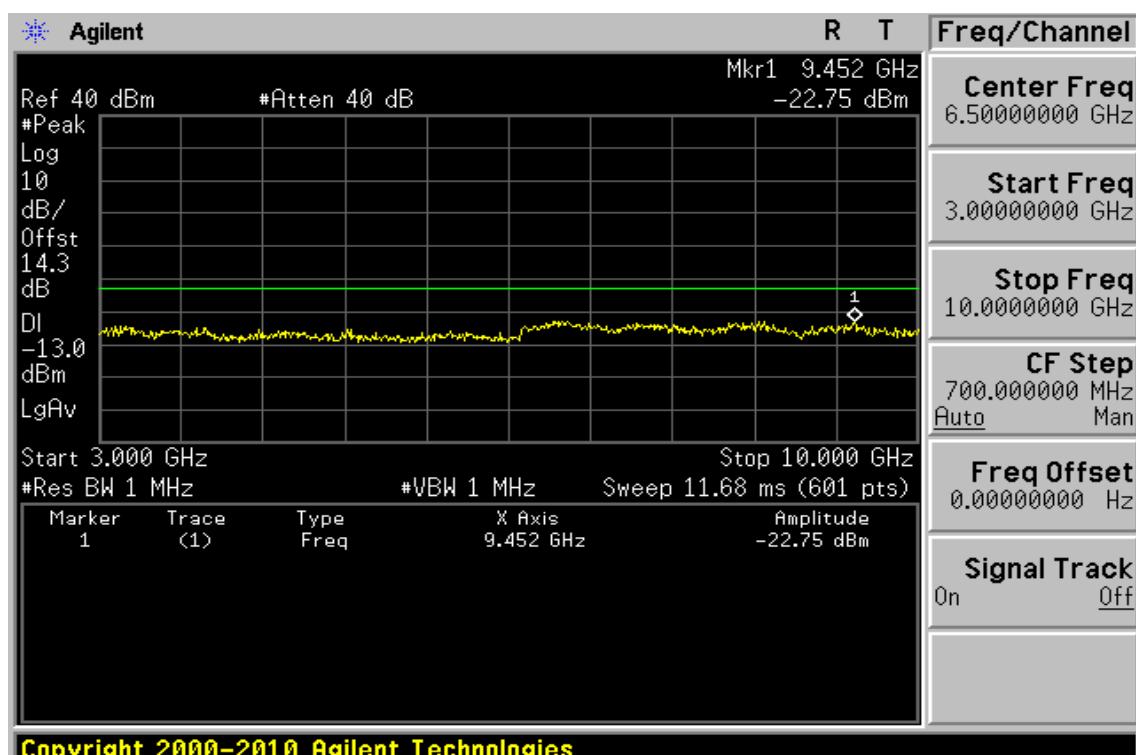
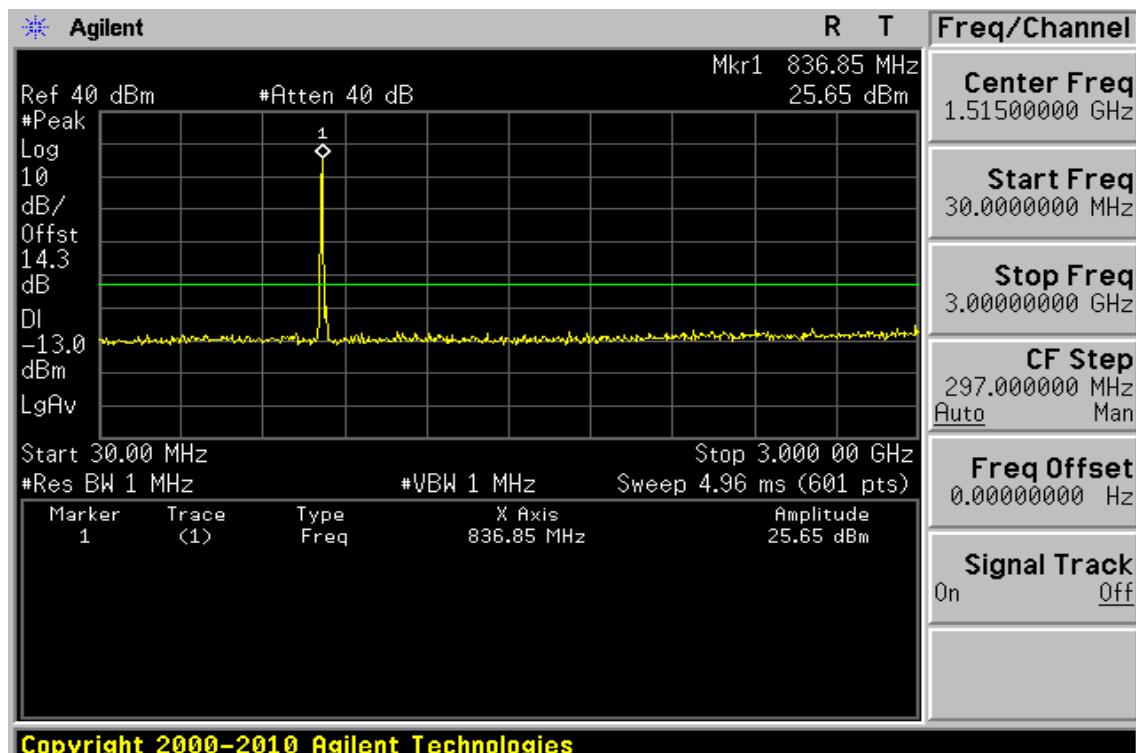


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Figure 9-57: Out of Band emission at antenna terminals – HSUPA V Channel Mid

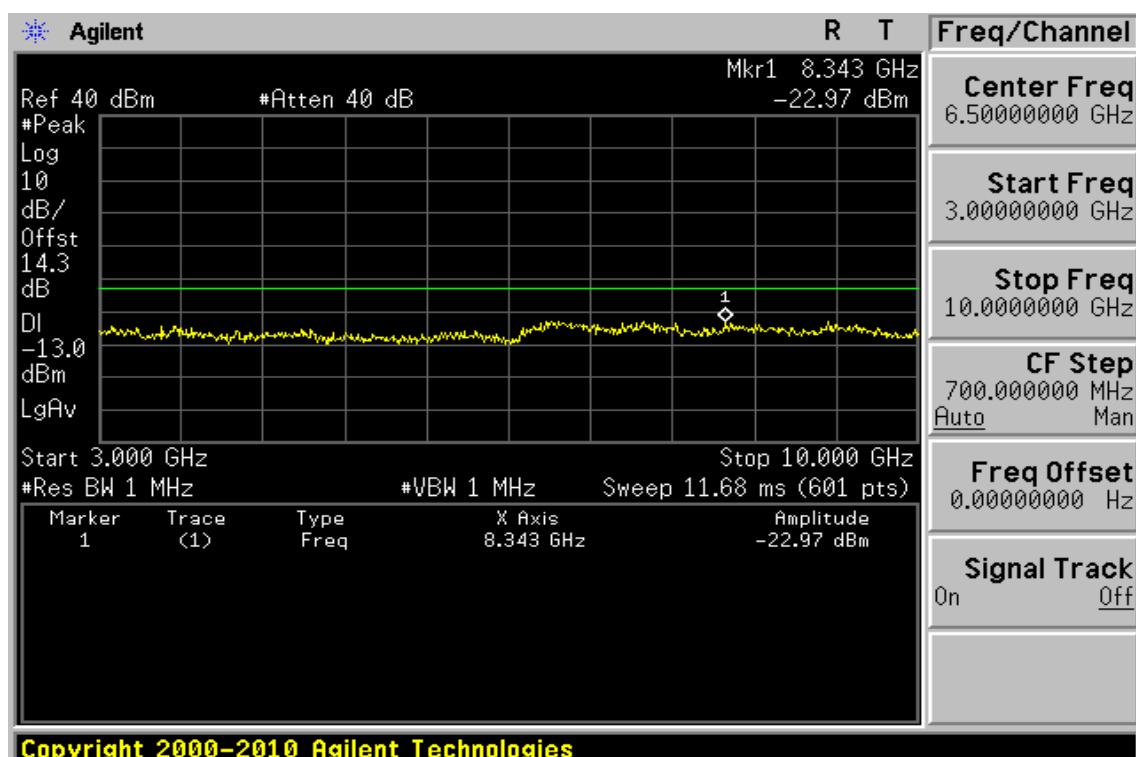
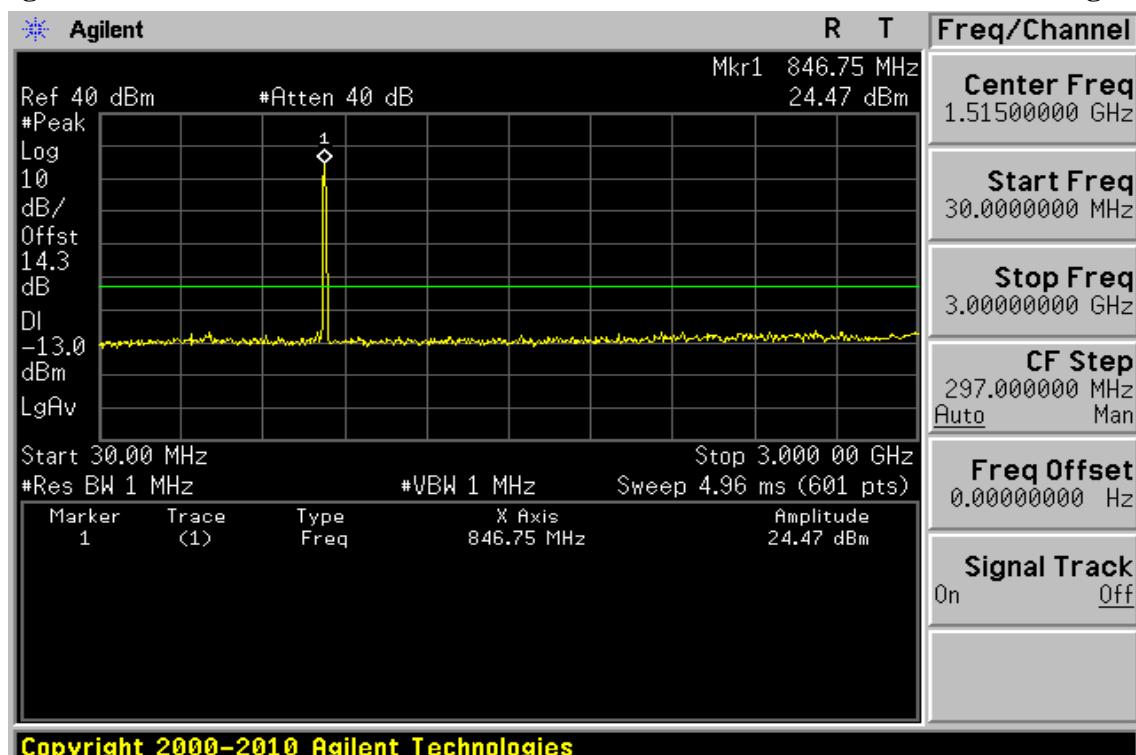


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Figure 9-58: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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

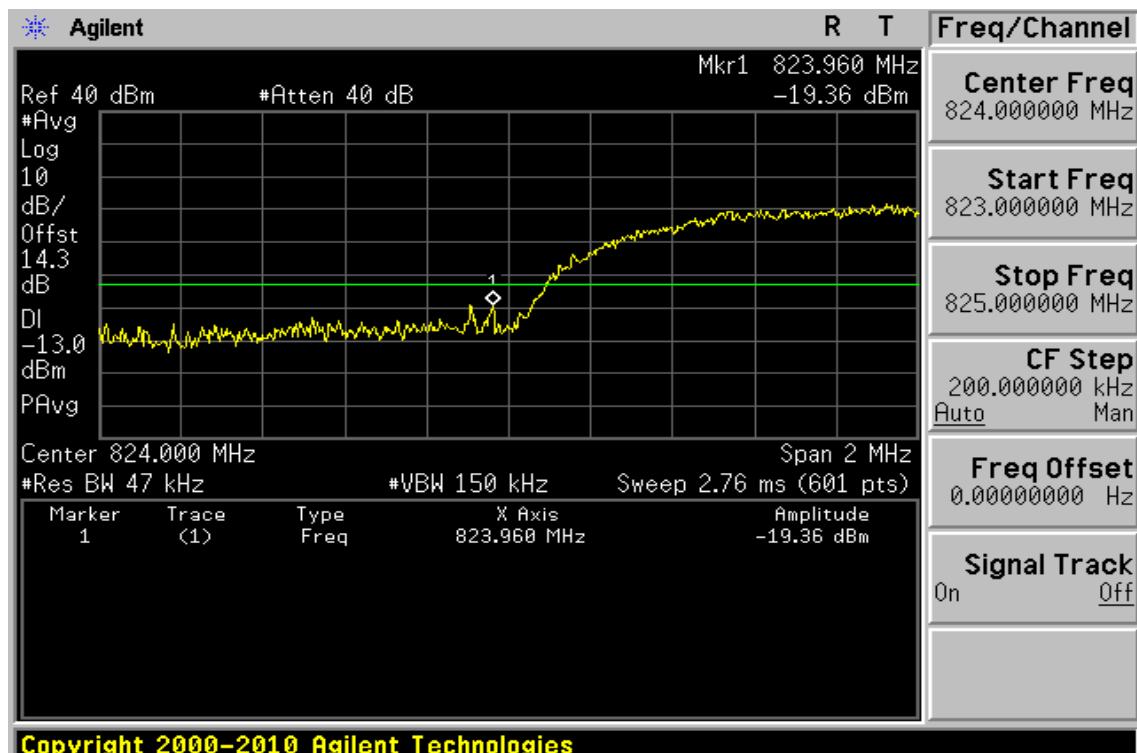
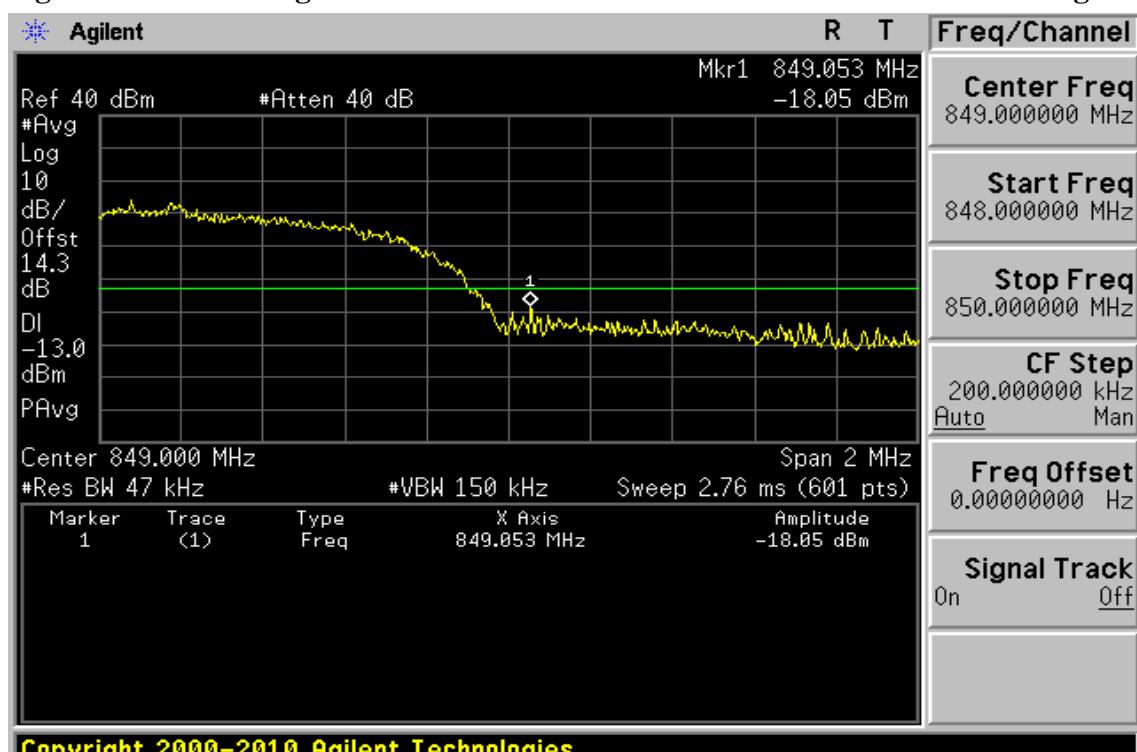


Figure 9-60: Band edge emission at antenna terminals – HSUPA V Channel Highest



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

According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

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

4.5.1.1 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log (P)$, dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least $43 + 10 \log (P)$, dB, in any 100 kHz bandwidth.

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

According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

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

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

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

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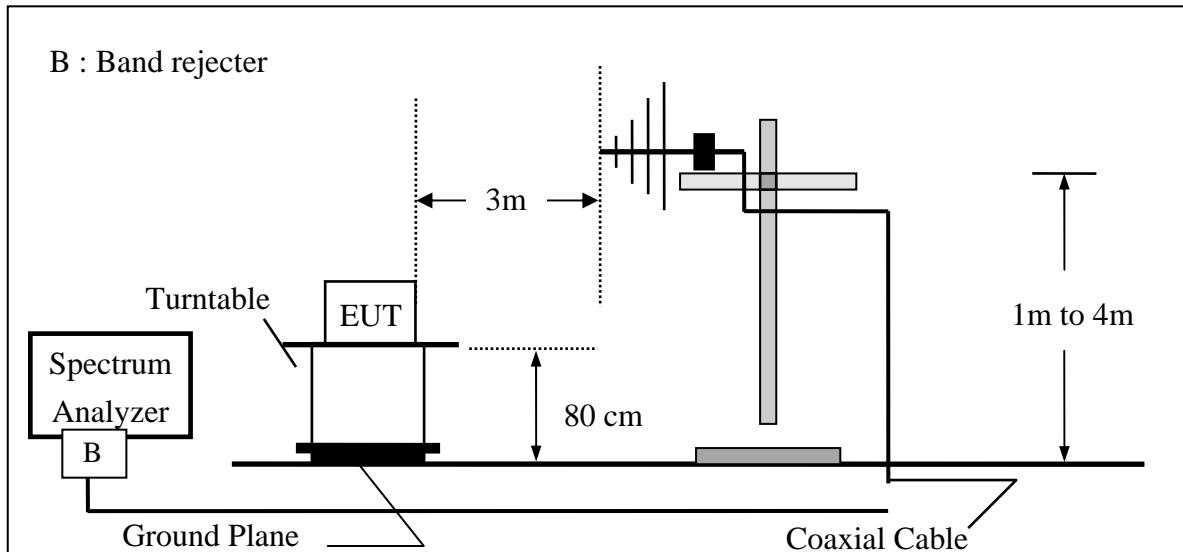
(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

6.5.2 Out-of-Sub-band Emissions

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

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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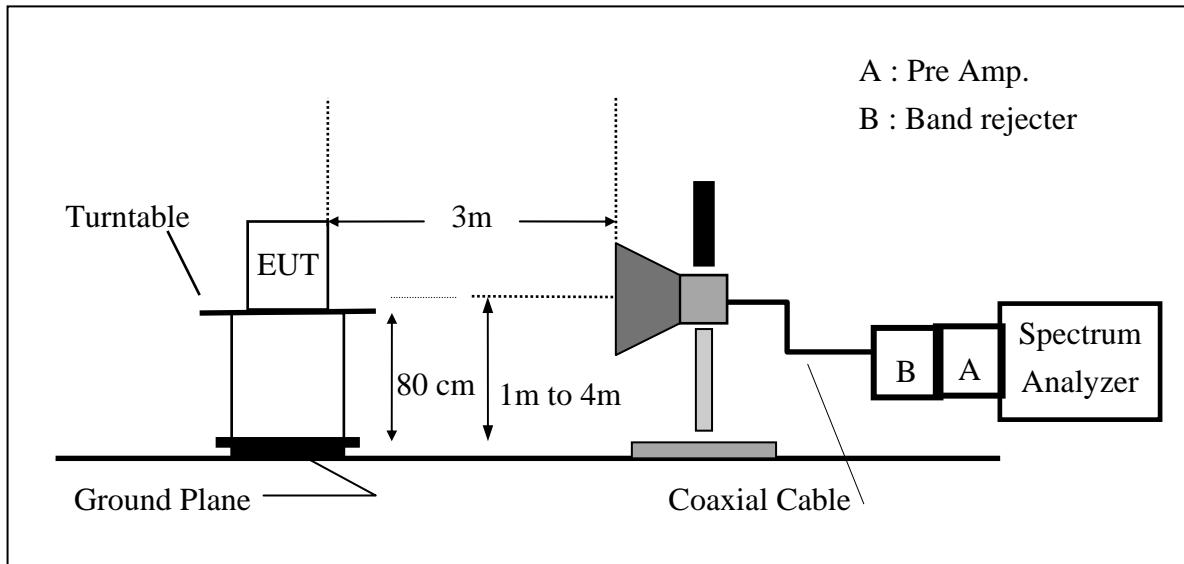
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Radiated Emission Test Set-UP Frequency Over 1 GHz

**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 frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

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

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

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

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band :GSM 850 Test Date :2012-06-08
ARFCN :CH 128 Temp./Humi. :25.4 deg_C / 62 RH
Fundamental Frequency :824.2 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
57.16	S	-92.59	-81.00	-9.00	-2.59	-13.00	-79.59
99.84	S	-88.05	-84.34	-0.99	-2.72	-13.00	-75.05
228.85	S	-85.15	-86.63	4.65	-3.17	-13.00	-72.15
291.90	S	-85.03	-86.35	4.57	-3.25	-13.00	-72.03
544.10	S	-80.65	-81.39	4.60	-3.85	-13.00	-67.65
728.40	S	-77.27	-76.92	3.79	-4.14	-13.00	-64.27
1648.40	H	-51.68	-48.71	2.39	-5.36	-13.00	-38.68
2472.60	H	-47.29	-44.27	3.14	-6.15	-13.00	-34.29
3296.80	H	-54.62	-52.49	4.70	-6.83	-13.00	-41.62
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

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

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 :GSM 850
ARFCN :CH 128
Fundamental Frequency :824.2 MHz
Operation Mode :TX
EUT Pol. :H Plan Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
50.37	S	-91.74	-78.19	-10.81	-2.73	-13.00	-78.74	
113.42	S	-89.93	-85.99	-1.18	-2.77	-13.00	-76.93	
243.40	S	-90.80	-92.02	4.44	-3.23	-13.00	-77.80	
286.08	S	-86.51	-87.79	4.50	-3.22	-13.00	-73.51	
539.25	S	-82.91	-83.75	4.61	-3.77	-13.00	-69.91	
728.40	S	-70.40	-70.05	3.79	-4.14	-13.00	-57.40	
1648.40	H	-51.78	-49.10	2.68	-5.36	-13.00	-38.78	
2472.60	H	-50.01	-47.38	3.52	-6.15	-13.00	-37.01	
3296.80	H	-54.35	-52.20	4.68	-6.83	-13.00	-41.35	
4121.00	H	---						
4945.20	H	---						
5769.40	H	---						
6593.60	H	---						
7417.80	H	---						
8242.00	H	---						

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

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 :GSM 850
ARFCN :CH 190
Fundamental Frequency :836.6 MHz
Operation Mode :TX
EUT Pol. :H Plan Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-92.99	-81.40	-9.00	-2.59	-13.00	-79.99	
103.72	S	-87.00	-83.26	-1.02	-2.72	-13.00	-74.00	
233.70	S	-85.52	-86.88	4.53	-3.17	-13.00	-72.52	
265.71	S	-84.64	-85.99	4.62	-3.27	-13.00	-71.64	
545.07	S	-79.82	-80.56	4.59	-3.85	-13.00	-66.82	
728.40	S	-78.11	-77.76	3.79	-4.14	-13.00	-65.11	
1673.20	H	-51.18	-48.17	2.33	-5.34	-13.00	-38.18	
2509.80	H	-45.23	-42.30	3.19	-6.13	-13.00	-32.23	
3346.40	H	-52.55	-50.60	4.84	-6.79	-13.00	-39.55	
4183.00	H	---						
5019.60	H	---						
5856.20	H	---						
6692.80	H	---						
7529.40	H	---						
8366.00	H	---						

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

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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Member of SGS Group

Operation Band :GSM 850
ARFCN :CH 190
Fundamental Frequency :836.6 MHz
Operation Mode :TX
EUT Pol. :H Plan Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
56.19	S	-90.13	-78.15	-9.24	-2.73	-13.00	-77.13	
114.39	S	-90.98	-87.01	-1.20	-2.77	-13.00	-77.98	
242.43	S	-90.50	-91.70	4.43	-3.23	-13.00	-77.50	
286.08	S	-86.32	-87.60	4.50	-3.22	-13.00	-73.32	
508.21	S	-83.31	-84.26	4.70	-3.74	-13.00	-70.31	
728.40	S	-70.88	-70.53	3.79	-4.14	-13.00	-57.88	
1673.20	H	-52.74	-50.06	2.66	-5.34	-13.00	-39.74	
2509.80	H	-46.81	-44.24	3.55	-6.13	-13.00	-33.81	
3346.40	H	-52.12	-50.14	4.81	-6.79	-13.00	-39.12	
4183.00	H	---						
5019.60	H	---						
5856.20	H	---						
6692.80	H	---						
7529.40	H	---						
8366.00	H	---						

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

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 :GSM 850
ARFCN :CH 251
Fundamental Frequency :848.8 MHz
Operation Mode :TX
EUT Pol. :H Plan Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
58.13	S	-92.06	-80.71	-8.75	-2.59	-13.00	-79.06	
103.72	S	-87.40	-83.66	-1.02	-2.72	-13.00	-74.40	
215.27	S	-85.56	-87.25	4.83	-3.14	-13.00	-72.56	
286.08	S	-84.47	-85.74	4.50	-3.22	-13.00	-71.47	
525.67	S	-80.88	-81.75	4.65	-3.77	-13.00	-67.88	
743.92	S	-77.50	-76.88	3.60	-4.23	-13.00	-64.50	
1697.60	H	-49.93	-46.82	2.29	-5.40	-13.00	-36.93	
2546.40	H	-43.13	-40.20	3.30	-6.24	-13.00	-30.13	
3395.20	H	-56.24	-54.37	4.98	-6.85	-13.00	-43.24	
4244.00	H	---						
5092.80	H	---						
5941.60	H	---						
6790.40	H	---						
7639.20	H	---						
8488.00	H	---						

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

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 :GSM 850
ARFCN :CH 251
Fundamental Frequency :848.8 MHz
Operation Mode :TX
EUT Pol. :H Plan Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
58.13	S	-90.65	-79.30	-8.75	-2.59	-13.00	-77.65	
120.21	S	-89.58	-85.46	-1.36	-2.77	-13.00	-76.58	
187.14	S	-90.56	-90.78	3.31	-3.09	-13.00	-77.56	
286.08	S	-87.11	-88.39	4.50	-3.22	-13.00	-74.11	
503.36	S	-82.85	-83.86	4.71	-3.70	-13.00	-69.85	
728.40	S	-71.52	-71.17	3.79	-4.14	-13.00	-58.52	
1697.60	H	-49.72	-46.97	2.65	-5.40	-13.00	-36.72	
2546.40	H	-45.88	-43.31	3.66	-6.24	-13.00	-32.88	
3395.20	H	-55.35	-53.44	4.93	-6.85	-13.00	-42.35	
4244.00	H	---						
5092.80	H	---						
5941.60	H	---						
6790.40	H	---						
7639.20	H	---						
8488.00	H	---						

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

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: GSM 1900 Mode

Operation Band :GSM 1900 Test Date :2012-06-08
ARFCN :CH 512 Temp./Humi. :25.4 deg_C / 62 RH
Fundamental Frequency :1850.2 MHz Engineer :Nick
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG dBm				
53.28	S	-90.26	-79.68	-7.86	-2.73	-13.00	-77.26	
103.72	S	-85.70	-84.11	1.13	-2.72	-13.00	-72.70	
242.43	S	-83.86	-87.22	6.58	-3.23	-13.00	-70.86	
286.08	S	-83.26	-86.68	6.65	-3.22	-13.00	-70.26	
544.10	S	-78.18	-81.07	6.75	-3.85	-13.00	-65.18	
708.03	S	-76.15	-78.36	6.20	-3.98	-13.00	-63.15	
3700.40	H	-54.92	-55.35	7.40	-6.98	-13.00	-41.92	
5550.60	H	---						
7400.80	H	---						
9251.00	H	---						
11101.20	H	---						
12951.40	H	---						
14801.60	H	---						
16651.80	H	---						
18502.00	H	---						

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

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 :GSM 1900 Test Date :2012-06-08
ARFCN :CH 512 Temp./Humi. :25.4 deg_C / 62 RH
Fundamental Frequency :1850.2 MHz Engineer :Nick
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
59.10	S	-89.50	-80.54	-6.37	-2.59	-13.00	-76.50	
114.39	S	-88.91	-87.09	0.95	-2.77	-13.00	-75.91	
247.28	S	-87.97	-91.40	6.66	-3.23	-13.00	-74.97	
295.78	S	-85.27	-88.79	6.77	-3.25	-13.00	-72.27	
543.13	S	-80.95	-83.85	6.75	-3.85	-13.00	-67.95	
793.39	S	-76.90	-78.74	6.00	-4.16	-13.00	-63.90	
3700.40	H	-57.44	-57.38	6.92	-6.98	-13.00	-44.44	
5550.60	H	---						
7400.80	H	---						
9251.00	H	---						
11101.20	H	---						
12951.40	H	---						
14801.60	H	---						
16651.80	H	---						
18502.00	H	---						

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

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 :GSM 1900 Test Date :2012-06-08
ARFCN :CH 661 Temp./Humi. :25.4 deg_C / 62 RH
Fundamental Frequency :1880.0 MHz Engineer :Nick
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-89.53	-80.09	-6.85	-2.59	-13.00	-76.53	
99.84	S	-85.49	-83.93	1.16	-2.72	-13.00	-72.49	
218.18	S	-83.03	-86.89	7.00	-3.14	-13.00	-70.03	
288.99	S	-83.44	-86.91	6.68	-3.22	-13.00	-70.44	
547.98	S	-78.30	-81.19	6.74	-3.85	-13.00	-65.30	
623.64	S	-75.71	-77.96	6.22	-3.97	-13.00	-62.71	
3760.00	H	-54.89	-55.18	7.41	-7.13	-13.00	-41.89	
5640.00	H	---						
7520.00	H	---						
9400.00	H	---						
11280.00	H	---						
13160.00	H	---						
15040.00	H	---						
16920.00	H	---						
18800.00	H	---						

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

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 :GSM 1900 Test Date :2012-06-08
ARFCN :CH 661 Temp./Humi. :25.4 deg_C / 62 RH
Fundamental Frequency :1880.0 MHz Engineer :Nick
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
60.07	S	-89.18	-80.46	-6.13	-2.59	-13.00	-76.18	
120.21	S	-88.52	-86.55	0.79	-2.77	-13.00	-75.52	
245.34	S	-88.68	-92.07	6.63	-3.23	-13.00	-75.68	
286.08	S	-85.39	-88.82	6.65	-3.22	-13.00	-72.39	
544.10	S	-80.27	-83.17	6.75	-3.85	-13.00	-67.27	
797.27	S	-77.01	-78.84	6.03	-4.20	-13.00	-64.01	
3760.00	H	-56.39	-56.10	6.83	-7.13	-13.00	-43.39	
5640.00	H	---						
7520.00	H	---						
9400.00	H	---						
11280.00	H	---						
13160.00	H	---						
15040.00	H	---						
16920.00	H	---						
18800.00	H	---						

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

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 :GSM 1900 Test Date :2012-06-08
ARFCN :CH 810 Temp./Humi. :25.4 deg_C / 62 RH
Fundamental Frequency :1909.8 MHz Engineer :Nick
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
53.28	S	-90.89	-80.30	-7.86	-2.73	-13.00	-77.89	
99.84	S	-85.65	-84.09	1.16	-2.72	-13.00	-72.65	
247.28	S	-82.09	-85.52	6.66	-3.23	-13.00	-69.09	
288.99	S	-82.53	-86.00	6.68	-3.22	-13.00	-69.53	
547.98	S	-78.81	-81.69	6.74	-3.85	-13.00	-65.81	
798.24	S	-75.75	-77.58	6.04	-4.20	-13.00	-62.75	
3819.60	H	-54.43	-54.75	7.51	-7.20	-13.00	-41.43	
5729.40	H	---						
7639.20	H	---						
9549.00	H	---						
11458.80	H	---						
13368.60	H	---						
15278.40	H	---						
17188.20	H	---						
19098.00	H	---						

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

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 :GSM 1900 Test Date :2012-06-08
ARFCN :CH 810 Temp./Humi. :25.4 deg_C / 62 RH
Fundamental Frequency :1909.8 MHz Engineer :Nick
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
60.07	S	-88.41	-79.69	-6.13	-2.59	-13.00	-75.41	
118.27	S	-87.74	-85.81	0.83	-2.77	-13.00	-74.74	
247.28	S	-88.40	-91.83	6.66	-3.23	-13.00	-75.40	
286.08	S	-85.02	-88.45	6.65	-3.22	-13.00	-72.02	
529.55	S	-81.18	-84.19	6.79	-3.77	-13.00	-68.18	
797.27	S	-75.94	-77.77	6.03	-4.20	-13.00	-62.94	
3819.60	H	-55.56	-55.42	7.05	-7.20	-13.00	-42.56	
5729.40	H	---						
7639.20	H	---						
9549.00	H	---						
11458.80	H	---						
13368.60	H	---						
15278.40	H	---						
17188.20	H	---						
19098.00	H	---						

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

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 II Mode

Operation Band :HSDPA B2 Test Date :2012-06-08
ARFCN :CH 9262 Temp./Humi. :25.4 deg_C / 62 RH
Fundamental Frequency :1852.4 MHz Engineer :Nick
Operation Mode :TX
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG dBm				
57.16	S	-90.66	-81.22	-6.85	-2.59	-13.00	-77.66	
99.84	S	-85.08	-83.52	1.16	-2.72	-13.00	-72.08	
199.75	S	-83.99	-87.76	6.85	-3.09	-13.00	-70.99	
286.08	S	-82.22	-85.65	6.65	-3.22	-13.00	-69.22	
541.19	S	-79.07	-82.05	6.75	-3.77	-13.00	-66.07	
776.90	S	-76.22	-77.94	5.88	-4.16	-13.00	-63.22	
3704.80	H	-46.26	-46.69	7.40	-6.98	-13.00	-33.26	
5557.20	H	---						
7409.60	H	---						
9262.00	H	---						
11114.40	H	---						
12966.80	H	---						
14819.20	H	---						
16671.60	H	---						
18524.00	H	---						

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

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 B2
ARFCN :CH 9262
Fundamental Frequency :1852.4 MHz
Operation Mode :TX
EUT Pol. :H Plan Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Nick
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
56.19	S	-88.28	-78.45	-7.09	-2.73	-13.00	-75.28	
119.24	S	-89.06	-87.10	0.80	-2.77	-13.00	-76.06	
239.52	S	-88.61	-91.93	6.55	-3.23	-13.00	-75.61	
286.08	S	-83.58	-87.01	6.65	-3.22	-13.00	-70.58	
491.72	S	-80.79	-83.92	6.83	-3.70	-13.00	-67.79	
799.21	S	-77.08	-78.92	6.04	-4.20	-13.00	-64.08	
3704.80	H	-44.65	-44.48	6.89	-7.06	-13.00	-31.65	
5557.20	H	---						
7409.60	H	---						
9262.00	H	---						
11114.40	H	---						
12966.80	H	---						
14819.20	H	---						
16671.60	H	---						
18524.00	H	---						

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

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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Member of SGS Group

Operation Band :HSDPA B2
ARFCN :CH 9400
Fundamental Frequency :1880.0 MHz
Operation Mode :TX
EUT Pol. :H Plan
Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Nick
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-90.01	-80.57	-6.85	-2.59	-13.00	-77.01	
99.84	S	-84.85	-83.29	1.16	-2.72	-13.00	-71.85	
210.42	S	-83.75	-87.56	6.95	-3.14	-13.00	-70.75	
281.23	S	-83.15	-86.51	6.59	-3.22	-13.00	-70.15	
536.34	S	-78.15	-81.14	6.77	-3.77	-13.00	-65.15	
786.60	S	-76.50	-78.29	5.95	-4.16	-13.00	-63.50	
3760.00	H	-51.34	-51.63	7.41	-7.13	-13.00	-38.34	
5640.00	H	---						
7520.00	H	---						
9400.00	H	---						
11280.00	H	---						
13160.00	H	---						
15040.00	H	---						
16920.00	H	---						
18800.00	H	---						

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

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 B2
ARFCN :CH 9400
Fundamental Frequency :1880.0 MHz
Operation Mode :TX
EUT Pol. :H Plan
Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Nick
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
50.37	S	-88.29	-76.89	-8.66	-2.73	-13.00	-75.29	
113.42	S	-88.14	-86.35	0.97	-2.77	-13.00	-75.14	
234.67	S	-88.77	-92.26	6.66	-3.17	-13.00	-75.77	
286.08	S	-84.70	-88.13	6.65	-3.22	-13.00	-71.70	
529.55	S	-81.17	-84.18	6.79	-3.77	-13.00	-68.17	
800.18	S	-76.81	-78.66	6.05	-4.20	-13.00	-63.81	
3760.00	H	-49.58	-49.32	6.85	-7.12	-13.00	-36.58	
5640.00	H	---						
7520.00	H	---						
9400.00	H	---						
11280.00	H	---						
13160.00	H	---						
15040.00	H	---						
16920.00	H	---						
18800.00	H	---						

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

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 B2
ARFCN :CH 9538
Fundamental Frequency :1907.6 MHz
Operation Mode :TX
EUT Pol. :H Plan Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Nick
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-90.53	-81.09	-6.85	-2.59	-13.00	-77.53	
99.84	S	-84.24	-82.68	1.16	-2.72	-13.00	-71.24	
248.25	S	-83.77	-87.21	6.67	-3.23	-13.00	-70.77	
292.87	S	-83.06	-86.54	6.73	-3.25	-13.00	-70.06	
544.10	S	-78.62	-81.51	6.75	-3.85	-13.00	-65.62	
748.77	S	-76.02	-77.48	5.69	-4.23	-13.00	-63.02	
3815.20	H	-51.41	-51.73	7.51	-7.20	-13.00	-38.41	
5722.80	H	---						
7630.40	H	---						
9538.00	H	---						
11445.60	H	---						
13353.20	H	---						
15260.80	H	---						
17168.40	H	---						
19076.00	H	---						

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

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 B2
ARFCN :CH 9538
Fundamental Frequency :1907.6 MHz
Operation Mode :TX
EUT Pol. :H Plan
Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Nick
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
59.10	S	-89.26	-80.30	-6.37	-2.59	-13.00	-76.26	
118.27	S	-88.92	-86.98	0.83	-2.77	-13.00	-75.92	
243.40	S	-88.87	-92.24	6.59	-3.23	-13.00	-75.87	
286.08	S	-84.37	-87.80	6.65	-3.22	-13.00	-71.37	
518.88	S	-80.46	-83.54	6.82	-3.74	-13.00	-67.46	
800.18	S	-77.27	-79.12	6.05	-4.20	-13.00	-64.27	
3815.20	H	-45.86	-45.70	7.03	-7.20	-13.00	-32.86	
5722.80	H	---						
7630.40	H	---						
9538.00	H	---						
11445.60	H	---						
13353.20	H	---						
15260.80	H	---						
17168.40	H	---						
19076.00	H	---						

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

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 V Mode

Operation Band :HSDPA B5 Test Date :2012-06-08
ARFCN :CH 4132 Temp./Humi. :25.4 deg_C / 62 RH
Fundamental Frequency :826.4 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
57.16	S	-92.04	-80.45	-9.00	-2.59	-13.00	-79.04
99.84	S	-88.29	-84.58	-0.99	-2.72	-13.00	-75.29
202.66	S	-85.37	-86.98	4.75	-3.14	-13.00	-72.37
295.78	S	-84.86	-86.23	4.62	-3.25	-13.00	-71.86
545.07	S	-80.14	-80.88	4.59	-3.85	-13.00	-67.14
740.04	S	-77.55	-76.98	3.65	-4.23	-13.00	-64.55
1652.80	H	-59.61	-56.65	2.39	-5.36	-13.00	-46.61
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

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

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 B5
ARFCN :CH 4132
Fundamental Frequency :826.4 MHz
Operation Mode :TX
EUT Pol. :E2 Plan
Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-90.93	-79.34	-9.00	-2.59	-13.00	-77.93	
120.21	S	-90.84	-86.72	-1.36	-2.77	-13.00	-77.84	
250.19	S	-90.66	-91.98	4.55	-3.23	-13.00	-77.66	
286.08	S	-86.20	-87.48	4.50	-3.22	-13.00	-73.20	
546.04	S	-83.15	-83.89	4.59	-3.85	-13.00	-70.15	
728.40	S	-70.68	-70.33	3.79	-4.14	-13.00	-57.68	
1652.80	H	-54.36	-51.68	2.68	-5.36	-13.00	-41.36	
2479.20	H	---						
3305.60	H	---						
4132.00	H	---						
4958.40	H	---						
5784.80	H	---						
6611.20	H	---						
7437.60	H	---						
8264.00	H	---						

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

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 B5
ARFCN :CH 4183
Fundamental Frequency :836.6 MHz
Operation Mode :TX
EUT Pol. :E2 Plan
Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
59.10	S	-91.91	-80.80	-8.52	-2.59	-13.00	-78.91	
99.84	S	-87.87	-84.16	-0.99	-2.72	-13.00	-74.87	
240.49	S	-85.38	-86.55	4.40	-3.23	-13.00	-72.38	
272.50	S	-85.03	-86.28	4.52	-3.27	-13.00	-72.03	
535.37	S	-79.43	-80.28	4.62	-3.77	-13.00	-66.43	
742.95	S	-78.36	-77.74	3.61	-4.23	-13.00	-65.36	
1673.20	H	-56.98	-54.03	2.35	-5.29	-13.00	-43.98	
2509.80	H	---						
3346.40	H	---						
4183.00	H	---						
5019.60	H	---						
5856.20	H	---						
6692.80	H	---						
7529.40	H	---						
8366.00	H	---						

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

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 B5
ARFCN :CH 4183
Fundamental Frequency :836.6 MHz
Operation Mode :TX
EUT Pol. :E2 Plan
Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
53.28	S	-91.51	-78.77	-10.01	-2.73	-13.00	-78.51	
118.27	S	-90.33	-86.25	-1.32	-2.77	-13.00	-77.33	
238.55	S	-90.58	-91.77	4.42	-3.23	-13.00	-77.58	
286.08	S	-87.30	-88.58	4.50	-3.22	-13.00	-74.30	
542.16	S	-83.16	-83.91	4.60	-3.85	-13.00	-70.16	
728.40	S	-70.74	-70.39	3.79	-4.14	-13.00	-57.74	
1673.20	H	-54.85	-52.17	2.66	-5.34	-13.00	-41.85	
2509.80	H	---						
3346.40	H	---						
4183.00	H	---						
5019.60	H	---						
5856.20	H	---						
6692.80	H	---						
7529.40	H	---						
8366.00	H	---						

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

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 B5
ARFCN :CH 4233
Fundamental Frequency :846.6 MHz
Operation Mode :TX
EUT Pol. :E2 Plan
Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-92.51	-80.92	-9.00	-2.59	-13.00	-79.51	
99.84	S	-88.32	-84.61	-0.99	-2.72	-13.00	-75.32	
239.52	S	-84.88	-86.05	4.40	-3.23	-13.00	-71.88	
286.08	S	-84.74	-86.02	4.50	-3.22	-13.00	-71.74	
537.31	S	-80.72	-81.56	4.61	-3.77	-13.00	-67.72	
754.59	S	-78.29	-77.62	3.56	-4.23	-13.00	-65.29	
1693.20	H	-60.41	-57.30	2.29	-5.40	-13.00	-47.41	
2539.80	H	---						
3386.40	H	---						
4233.00	H	---						
5079.60	H	---						
5926.20	H	---						
6772.80	H	---						
7619.40	H	---						
8466.00	H	---						

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

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 B5
ARFCN :CH 4233
Fundamental Frequency :846.6 MHz
Operation Mode :TX
EUT Pol. :E2 Plan
Test Date :2012-06-08
Temp./Humi. :25.4 deg_C / 62 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-91.09	-79.50	-9.00	-2.59	-13.00	-78.09	
113.42	S	-90.32	-86.38	-1.18	-2.77	-13.00	-77.32	
243.40	S	-90.20	-91.42	4.44	-3.23	-13.00	-77.20	
286.08	S	-86.67	-87.95	4.50	-3.22	-13.00	-73.67	
498.51	S	-82.62	-83.63	4.71	-3.70	-13.00	-69.62	
728.40	S	-71.41	-71.06	3.79	-4.14	-13.00	-58.41	
1693.20	H	-56.34	-53.65	2.65	-5.34	-13.00	-43.34	
2539.80	H	---						
3386.40	H	---						
4233.00	H	---						
5079.60	H	---						
5926.20	H	---						
6772.80	H	---						
7619.40	H	---						
8466.00	H	---						

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

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

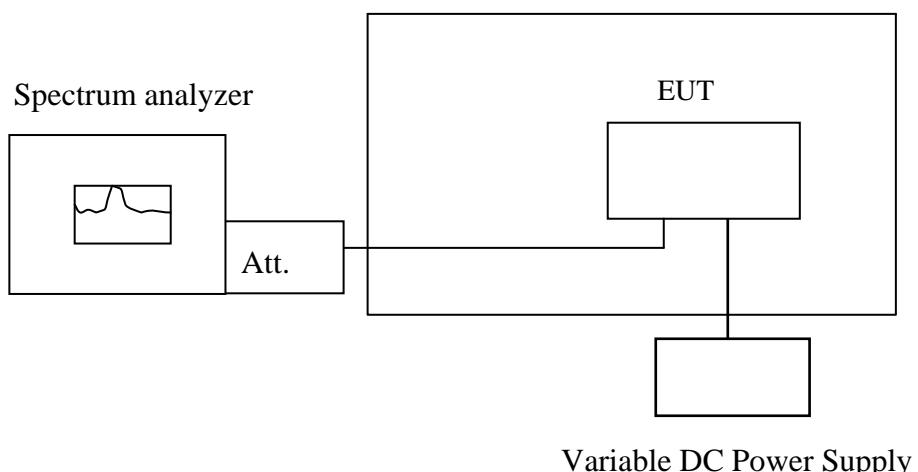
+/-2.5ppm for 1900MHz band

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

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

11.2. Test Set-up:

Temperature Chamber



Note : Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

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

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

Reference Frequency: GSM 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.599988	5.00	2091
3.7	-20	836.599990	3.00	2091
3.7	-10	836.599990	3.00	2091
3.7	0	836.599993	0.00	2091
3.7	10	836.599991	2.00	2091
3.7	20	836.599993	0.00	2091
3.7	30	836.599989	4.00	2091
3.7	40	836.599993	0.00	2091
3.7	50	836.599989	4.00	2091
3.7	60	836.599990	3.00	2091

Reference Frequency: GSM 1900Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1879.999987	3.00	4700
3.7	-20	1879.999989	1.00	4700
3.7	-10	1879.999988	2.00	4700
3.7	0	1879.999989	1.00	4700
3.7	10	1879.999988	2.00	4700
3.7	20	1879.999990	0.00	4700
3.7	30	1879.999992	-2.00	4700
3.7	40	1879.999989	1.00	4700
3.7	50	1879.999986	4.00	4700
3.7	60	1879.999985	5.00	4700

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Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1879.999987	5.00	4700
3.7	-20	1879.999989	3.00	4700
3.7	-10	1879.999987	5.00	4700
3.7	0	1879.999991	1.00	4700
3.7	10	1879.999991	1.00	4700
3.7	20	1879.999992	0.00	4700
3.7	30	1879.999989	3.00	4700
3.7	40	1879.999987	5.00	4700
3.7	50	1879.999986	6.00	4700
3.7	60	1879.999986	6.00	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 (°C)	(MHz)		
3.7	-30	836.599985	6.00	2091
3.7	-20	836.599986	5.00	2091
3.7	-10	836.599988	3.00	2091
3.7	0	836.599989	2.00	2091
3.7	10	836.599990	1.00	2091
3.7	20	836.599991	0.00	2091
3.7	30	836.599988	3.00	2091
3.7	40	836.599991	0.00	2091
3.7	50	836.599987	4.00	2091
3.7	60	836.599988	3.00	2091

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(a) (1)

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

+/-2.5ppm for 1900MHz band

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

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

12.2. Test Set-up:

Refer to section 10.2 in this report

12.3. Measurement Procedure:

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

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

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

Reference Frequency: GSM 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25.00	836.599986	8.00	2091.00
3.7	25.00	836.599994	0.00	2091.00
3.5	25.00	836.599992	2.00	2091.00
3.5 (End Point)	25.00	836.599992	2.00	2091.00

Reference Frequency: GSM1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25	1879.999998	-4.00	4700
3.7	25	1879.999994	0.00	4700
3.5	25	1879.999992	2.00	4700
3.5 (End Point)	25	1879.999992	2.00	4700

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Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25	1879.999998	-3.00	4700
3.7	25	1879.999995	0.00	4700
3.5	25	1879.999992	3.00	4700
3.5 (End Point)	25	1879.999992	3.00	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 (°C)	(MHz)		
4.2	25.00	836.599996	-1.00	2091.00
3.7	25.00	836.599995	0.00	2091.00
3.5	25.00	836.599994	1.00	2091.00
3.5 (End Point)	25.00	836.599994	1.00	2091.00

Note: The battery is rated 3.7V dc.

~ End of Report ~

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