

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E

OF

Product Name: PDA Scanner

Brand Name: unitech

Model Name: PA969

Model Differences: N/A

FCC ID: HLEPA969BTP

Report No.: EH/2011/B0038

Issue Date: Apr. 10, 2012

FCC Rule Part: 2, 22H & 24E

Prepared for: unitech electronics co., ltd.
5F, No. 136, Lane 235, Pao-Chiao Rd.,
Hsin-Tien Dist., New Taipei City, Taiwan
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: unitech electronics co., ltd.
5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist., New Taipei City, Taiwan

Product Name: PDA Scanner

Brand Name: unitech

Model Number: PA969

Model Different: N/A

FCC ID: HLEPA969BTP

File Number: EH/2011/B0038

Date of test: Dec. 02, 2011 ~ Mar. 29, 2012

Date of EUT Received: Dec. 02, 2011

We hereby certify that:

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

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

Test By:

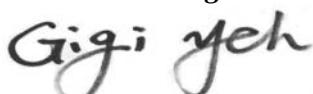


Date:

Apr. 10, 2012

Nick Lin / Engineer

Prepared By:



Date:

Apr. 10, 2012

Gigi Yeh / Clerk

Approved By:



Date:

Apr. 10, 2012

Jim Chang / Supervisor

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FCC ID: HLEPA969BTP

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Issue Date: Apr. 10, 2012
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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 00 | Apr. 10, 2012 | Initial creation of document |
| | | |
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1. GENERAL PRODUCT INFORMATION

General:

| | | |
|-------------------|---|--|
| Product Name: | PDA Scanner | |
| Brand Name: | unitech | |
| Model No.: | PA969 | |
| Model difference: | N/A | |
| Hardware Version: | V3.1 | |
| Software Version: | V1.2.1 | |
| Power Supply: | 7.4Vdc form Li-Ion battery or 5Vdc form adapter. Battery: Model No.: 1400-900006G, Adapter : Model No.: 3A-242DB12, | |

WCDMA:

| Cellular Phone Standards Frequency Range and Power: | Operating Frequency | | Rated Power |
|---|--|-----------------------|-------------|
| | GPRS 850, Class 10 | 824.2 MHz – 848.8 MHz | 33 dBm |
| | GPRS 1900, Class 10 | 1850.2MHz – 1909.8MHz | 30 dBm |
| | EDGE 850, Class 10 | 824.2 MHz – 848.8 MHz | 27 dBm |
| | EDGE 1900, Class 10 | 1850.2MHz – 1909.8MHz | 26 dBm |
| | WCDMA/HSDPA Band II | 1852.4MHz – 1907.6MHz | 24 dBm |
| | WCDMA/HSDPA Band V | 826.4MHz - 846.6MHz | 24 dBm |
| Type of Emission: | GPRS850: 248KGXW, GPRS1900: 249KGXW EDGE 850: 242KG7W, EDGE 1900: 242KG7W WCDMA Band II: 4M18F9W,HSDPA Band II: 4M18F9W WCDMA Band V: 4M16F9W,HSDPA Band V: 4M15F9W | | |
| IMEI: | 354114013292900 | | |

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Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|-----------|----------------|-----------------|
| GPRS 850 | 7.4 Vdc | 410 |
| GPRS 1900 | 7.4 Vdc | 380 |
| EDGE 850 | 7.4 Vdc | 390 |
| EDGE 1900 | 7.4 Vdc | 370 |
| WCDMA B2 | 7.4 Vdc | 720 |
| HSDPA B2 | 7.4 Vdc | 590 |
| WCDMA B5 | 7.4 Vdc | 750 |
| HSDPA B5 | 7.4 Vdc | 610 |

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

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

This submittal(s) (test report) is intended for FCC ID: **HLEPA969BTP** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules.

1.2. Test Methodology

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

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 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in TIA/EIA 603C. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C and RSS-Gen, 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.

2.3.3 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C and RSS-Gen, 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 | 07/12/2010 | 07/11/2012 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 04/30/2010 | 04/29/2012 |
| 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 |

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|------------------------------|-----------------------|--------------------------|----------------------|------------------|-----------------|
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 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 | 07/17/2010 | 07/16/2012 |
| Dipole Antenna | SCHWAZBECK | UHAP | 891/892 | 07/17/2010 | 07/16/2012 |
| 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 |
| 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 | 07/12/2010 | 07/11/2012 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | 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 | 05/25/2011 | 05/24/2013 |
| Filter 1800-2000 | Micro-Tronics | EWT | M2 | 05/25/2011 | 05/24/2013 |
| 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 | 07/15/2011 | 07/14/2012 |

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2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System

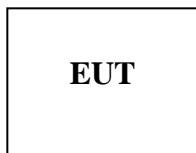


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model / Type No. | Series No. |
|------|--------------------------------------|-----------|------------------|------------|
| 1. | Universal Radio Communication Tester | R&S | CMU200 | 102189 |

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3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|---|--|-----------|
| §2.1046(a) | RF Power Output | Compliant |
| §2.1046(a) §22.913(a)(2) §24.232(c) | ERP/ EIRP measurement | Compliant |
| §2.1049(h) | 99% Occupied Bandwidth | Compliant |
| §2.1051 §22.917(a) §24.238(a) | Out of Band Emissions at Antenna Terminals and Band Edge | Compliant |
| §2.1053 §22.917(a) §24.238(a) | Field Strength of Spurious Radiation | Compliant |
| §2.1055(a)(1) §22.355 §24.235 | Frequency Stability vs. Temperature | Compliant |
| §2.1055(d)(2) §22.355 §24.235 | Frequency Stability vs. Voltage | Compliant |

Max ERP/EIRP measurement result:

| | dBm | dB | W |
|----------------|-------|------|-------|
| GPRS 850 Band | 23.48 | ERP | 0.223 |
| GPRS 1900 Band | 28.60 | EIRP | 0.724 |
| EDGE 850 Band | 22.66 | ERP | 0.185 |
| EDGE 1900 Band | 29.36 | EIRP | 0.863 |
| WCDMA Band II | 25.28 | EIRP | 0.337 |
| WCDMA Band V | 15.29 | ERP | 0.034 |
| HSDPA Band II | 26.09 | EIRP | 0.406 |
| HSDPA Band V | 17.46 | ERP | 0.056 |

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT was staying in continuous transmitting mode. Channel Low, Mid and High for each 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 GPRS/EDGE and WCDMA/HSDPA Band II, V with power adaptor. The worst-case of H position for GPRS 850 band, H position for GEDGE 1900, H position for WCDMA Band II and E1 position for HSDPA Band V were reported.

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

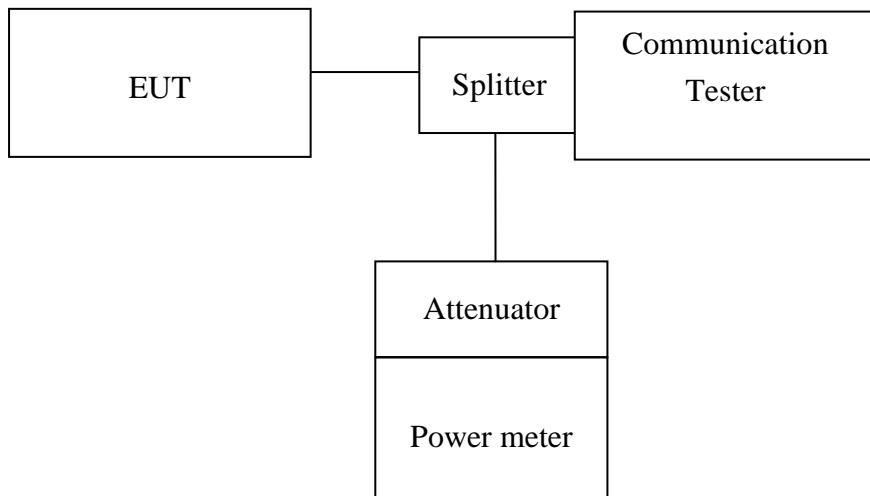
| Sub-test in table C.11.1.3 | Power Class 3 | | Power Class 4 | |
|-------------------------------|----------------|-------------|----------------|-------------|
| | Power (dBm) | Tol (dB) | Power (dBm) | Tol (dB) |
| 1 | +24 | +1.7/-6.7 | +21 | +2.7/-5.7 |
| 2 | +22 | +3.7/-5.2 | +19 | +4.7/-4.2 |
| 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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6.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure:

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

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5. Measurement Result:**6.5.1. RF Conducted Output Power****6.5.1.1.: GPRS/EDGE (GMSK; 8-PSK)****Result:**

| EUT Mode | Frequency (MHz) | CH | Peak Power (1DN 1UP) (dBm) | Avg. Power (1DN 1UP) (dBm) | Peak Power (1DN 2UP) (dBm) | Avg. Power (1DN 2UP) (dBm) |
|------------------------|--------------------|-----|--|--|--|--|
| GPRS 850 (Class 10) | 824.2 | 128 | 32.40 | 32.30 | 30.90 | 30.70 |
| | 836.6 | 190 | 32.50 | 32.40 | 30.90 | 30.80 |
| | 848.8 | 251 | 32.50 | 32.30 | 30.90 | 30.80 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (1DN 1UP) (dBm) | Avg. Power (1DN 1UP) (dBm) | Peak Power (1DN 2UP) (dBm) | Avg. Power (1DN 2UP) (dBm) |
|-------------------------|--------------------|-----|--|--|--|--|
| GPRS 1900 (Class 10) | 1850.2 | 512 | 32.80 | 32.70 | 31.20 | 31.00 |
| | 1880.0 | 661 | 32.80 | 32.70 | 31.20 | 31.00 |
| | 1909.8 | 810 | 32.80 | 32.70 | 31.30 | 31.10 |

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| EUT Mode | Frequency (MHz) | CH | Peak Power (1DN 1UP) (dBm) | Avg. Power (1DN 1UP) (dBm) | Peak Power (1DN 2UP) (dBm) | Avg. Power (1DN 2UP) (dBm) |
|------------------------|--------------------|-----|--|--|--|--|
| EDGE 850 (Class 10) | 824.2 | 128 | 30.70 | 27.50 | 28.60 | 25.50 |
| | 836.6 | 190 | 30.80 | 27.50 | 28.80 | 25.60 |
| | 848.8 | 251 | 30.70 | 27.50 | 28.60 | 25.50 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (1DN 1UP) (dBm) | Avg. Power (1DN 1UP) (dBm) | Peak Power (1DN 2UP) (dBm) | Avg. Power (1DN 2UP) (dBm) |
|-------------------------|--------------------|-----|--|--|--|--|
| EDGE 1900 (Class 10) | 1850.2 | 512 | 30.90 | 27.70 | 28.90 | 25.70 |
| | 1880.0 | 661 | 30.90 | 27.70 | 28.80 | 25.70 |
| | 1909.8 | 810 | 30.90 | 27.70 | 29.00 | 25.80 |

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6.5.1.2.: WCDMA mode

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

Results:

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg Power (dBm) |
|---------------|-----------------|------|------------------|-----------------|
| WCDMA Band II | 1852.4 | 9262 | 26.18 | 22.62 |
| | 1880.0 | 9400 | 26.12 | 22.48 |
| | 1907.6 | 9538 | 25.36 | 21.78 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg Power (dBm) |
|--------------|-----------------|------|------------------|-----------------|
| WCDMA Band V | 826.40 | 4132 | 27.44 | 24.03 |
| | 836.60 | 4183 | 27.05 | 23.74 |
| | 846.60 | 4233 | 27.26 | 23.79 |

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

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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 Limita- tion (dBm) | Comments |
|---------------|----------|----------------------------|-------|-------|-------------------------------------|----------|
| | | 9262 | 9400 | 9538 | | |
| HSDPA (B2) | 1 | 22.10 | 21.87 | 21.83 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 21.69 | 21.47 | 21.41 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 21.62 | 21.42 | 21.30 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 21.69 | 21.43 | 21.42 | 19.8dBm – 25.7dBm | Pass |

| Mode | Sub-test | RMS Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|---------------|----------|----------------------------|-------|-------|-------------------------------------|----------|
| | | 4132 | 4183 | 4233 | | |
| HSDPA (B5) | 1 | 23.07 | 22.82 | 22.78 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 22.78 | 22.46 | 22.46 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 22.61 | 22.34 | 22.29 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 22.66 | 22.38 | 22.35 | 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 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 | 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 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 | 21.73 | 21.59 | 21.44 | 17.3dBm – 25.7dBm | Pass |
| | 2 | 19.75 | 19.55 | 19.48 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 20.66 | 20.47 | 20.45 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 19.87 | 19.69 | 19.48 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 21.59 | 21.47 | 21.35 | 17.3dBm – 25.7dBm | Pass |

| Mode | Sub-test | RMS Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|---------------|----------|----------------------------|-------|-------|-------------------------------------|----------|
| | | 4132 | 4172 | 4233 | | |
| HSUPA (B5) | 1 | 22.81 | 22.50 | 22.50 | 17.3dBm – 25.7dBm | Pass |
| | 2 | 20.87 | 20.58 | 20.54 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 21.78 | 21.56 | 21.53 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 20.92 | 20.64 | 20.62 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 22.67 | 22.33 | 22.39 | 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) | 28.8 | 27.4 | 25.7 | 23.7 | 21.6 | 19.6 | 17.6 | 15.6 | 13.6 |
| PCL | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Output power (dBm) | 11.6 | 9.6 | 7.6 | 5.6 | 3.6 | 1.6 | -0.1 | | |

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

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 19 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. The power variation can be 0.1dB step by setting.

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

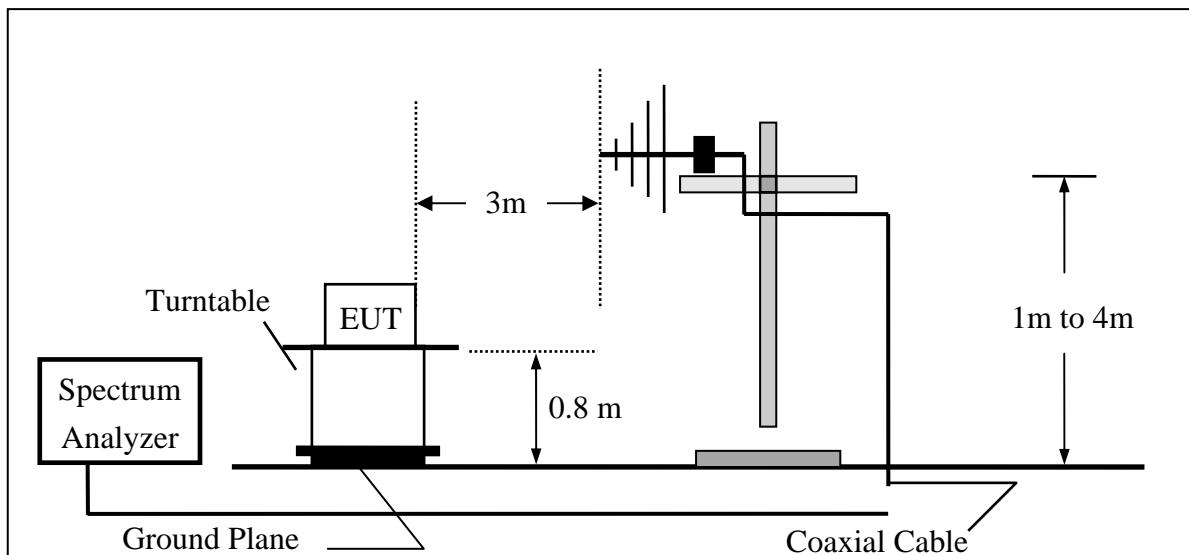
According to FCC §2.1046

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

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

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

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

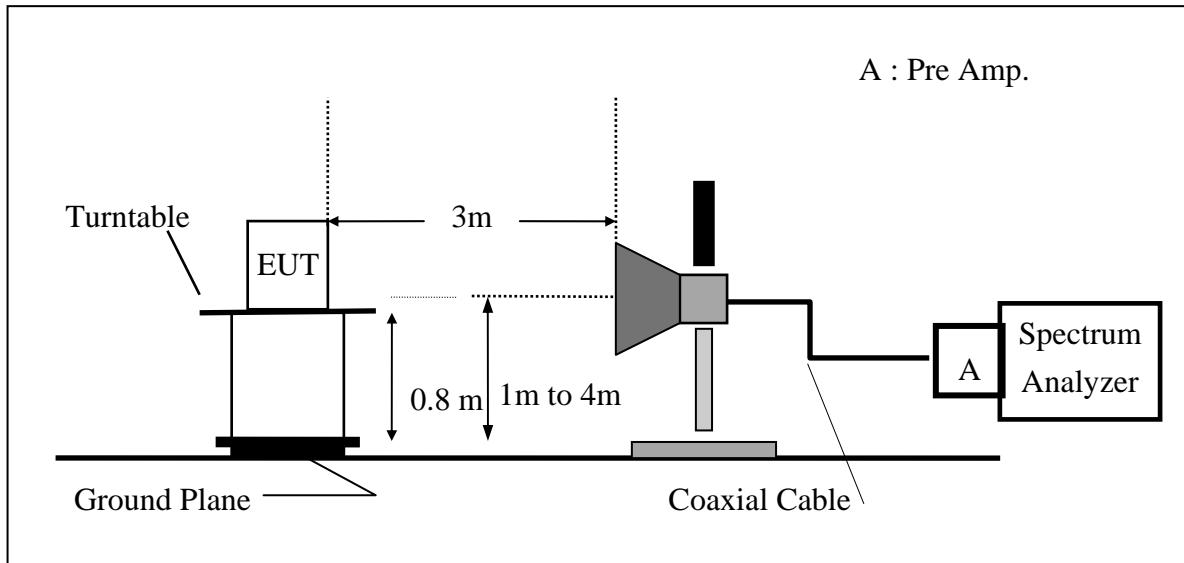


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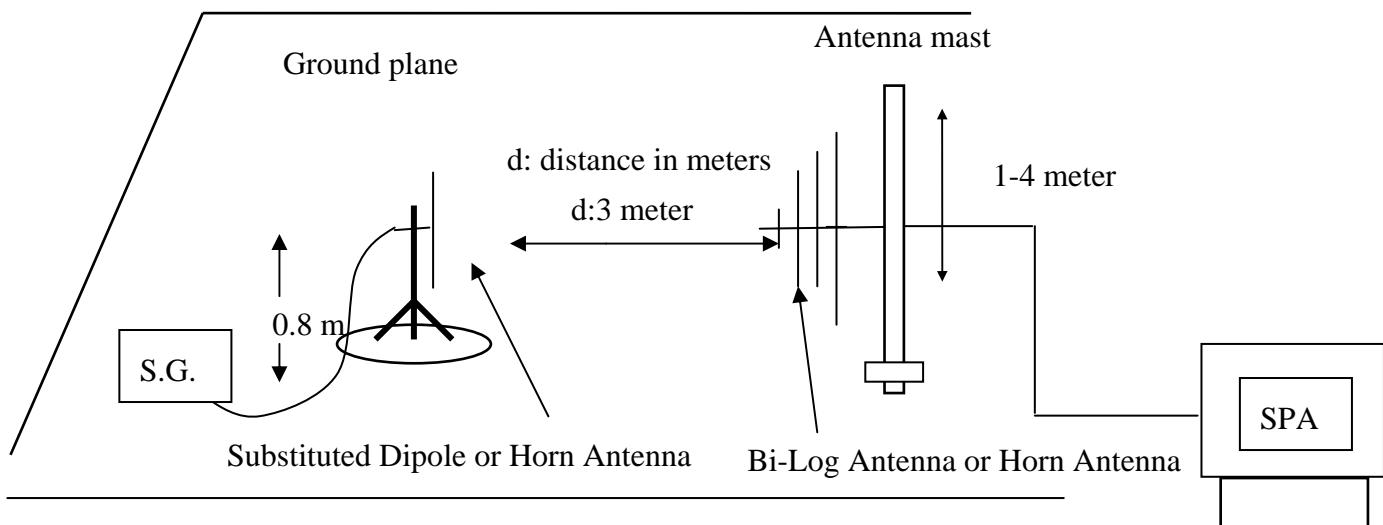
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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:

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

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

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 |
| GPRS 850 | H | 824.20 | 128 | V | 20.27 | 3.96 | -4.22 | 20.01 | 38.45 |
| | | | | H | 18.97 | 3.96 | -4.22 | 18.71 | 38.45 |
| | | 836.60 | 190 | V | 20.10 | 4.00 | -4.24 | 19.86 | 38.45 |
| | | | | H | 17.07 | 4.00 | -4.24 | 16.82 | 38.45 |
| | | 848.80 | 251 | V | 19.00 | 4.03 | -4.33 | 18.7 | 38.45 |
| | | | | H | 15.98 | 4.03 | -4.33 | 15.68 | 38.45 |
| | E1 | 824.20 | 128 | V | 19.1 | 3.96 | -4.22 | 18.84 | 38.45 |
| | | | | H | 23.37 | 3.96 | -4.22 | 23.11 | 38.45 |
| | | 836.60 | 190 | V | 17.72 | 4.00 | -4.24 | 17.48 | 38.45 |
| | | | | H | 23.49 | 4.00 | -4.24 | 23.25 | 38.45 |
| | | 848.80 | 251 | V | 16.36 | 4.03 | -4.33 | 16.06 | 38.45 |
| | | | | H | 22.67 | 4.03 | -4.33 | 22.37 | 38.45 |
| | E2 | 824.20 | 128 | V | 22.15 | 3.96 | -4.22 | 21.89 | 38.45 |
| | | | | H | 23.74 | 3.96 | -4.22 | 23.48 | 38.45 |
| | | 836.60 | 190 | V | 20.09 | 4.00 | -4.24 | 19.85 | 38.45 |
| | | | | H | 22.20 | 4.00 | -4.24 | 21.95 | 38.45 |
| | | 848.80 | 251 | V | 18.98 | 4.03 | -4.33 | 18.68 | 38.45 |
| | | | | H | 22.61 | 4.03 | -4.33 | 22.31 | 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 |
| GPRS 1900 | H | 1850.20 | 512 | V | 27.46 | 4.17 | -5.49 | 26.14 | 33.00 |
| | | | | H | 29.57 | 4.51 | -5.49 | 28.6 | 33.00 |
| | | 1880.00 | 661 | V | 25.41 | 4.13 | -5.56 | 23.98 | 33.00 |
| | | | | H | 28.19 | 4.44 | -5.56 | 27.06 | 33.00 |
| | | 1909.80 | 810 | V | 25.77 | 4.09 | -5.56 | 24.31 | 33.00 |
| | | | | H | 27.06 | 4.36 | -5.56 | 25.87 | 33.00 |
| | E1 | 1850.20 | 512 | V | 26.93 | 4.17 | -5.49 | 25.61 | 33.00 |
| | | | | H | 25.40 | 4.51 | -5.49 | 24.42 | 33.00 |
| | | 1880.00 | 661 | V | 22.38 | 4.13 | -5.56 | 20.96 | 33.00 |
| | | | | H | 23.33 | 4.44 | -5.56 | 22.21 | 33.00 |
| | | 1909.80 | 810 | V | 22.56 | 4.09 | -5.56 | 21.09 | 33.00 |
| | | | | H | 23.56 | 4.36 | -5.56 | 22.37 | 33.00 |
| | E2 | 1850.20 | 512 | V | 27.88 | 4.17 | -5.49 | 26.57 | 33.00 |
| | | | | H | 27.33 | 4.51 | -5.49 | 26.36 | 33.00 |
| | | 1880.00 | 661 | V | 25.26 | 4.13 | -5.56 | 23.83 | 33.00 |
| | | | | H | 23.30 | 4.44 | -5.56 | 22.18 | 33.00 |
| | | 1909.80 | 810 | V | 26.32 | 4.09 | -5.56 | 24.85 | 33.00 |
| | | | | H | 23.12 | 4.36 | -5.56 | 21.92 | 33.00 |

Remark :

(1) The RBW,VBW of SPA for frequency RBW=300K, 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 | 18.91 | 3.96 | -4.22 | 18.65 | 38.45 |
| | | | | H | 17.82 | 3.96 | -4.22 | 17.56 | 38.45 |
| | | 836.60 | 190 | V | 18.06 | 4.00 | -4.24 | 17.82 | 38.45 |
| | | | | H | 16.06 | 4.00 | -4.24 | 15.82 | 38.45 |
| | | 848.80 | 251 | V | 16.81 | 4.03 | -4.33 | 16.51 | 38.45 |
| | | | | H | 14.22 | 4.03 | -4.33 | 13.92 | 38.45 |
| | E1 | 824.20 | 128 | V | 22.92 | 3.96 | -4.22 | 22.66 | 38.45 |
| | | | | H | 22.90 | 3.96 | -4.22 | 22.64 | 38.45 |
| | | 836.60 | 190 | V | 21.68 | 4.00 | -4.24 | 21.44 | 38.45 |
| | | | | H | 21.67 | 4.00 | -4.24 | 21.43 | 38.45 |
| | | 848.80 | 251 | V | 20.38 | 4.03 | -4.33 | 20.08 | 38.45 |
| | | | | H | 19.70 | 4.03 | -4.33 | 19.4 | 38.45 |
| | E2 | 824.20 | 128 | V | 21.96 | 3.96 | -4.22 | 21.7 | 38.45 |
| | | | | H | 22.62 | 3.96 | -4.22 | 22.36 | 38.45 |
| | | 836.60 | 190 | V | 20.01 | 4.00 | -4.24 | 19.77 | 38.45 |
| | | | | H | 21.32 | 4.00 | -4.24 | 21.08 | 38.45 |
| | | 848.80 | 251 | V | 18.40 | 4.03 | -4.33 | 18.1 | 38.45 |
| | | | | H | 22.15 | 4.03 | -4.33 | 21.85 | 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 |
| EDGE 1900 | H | 1850.20 | 512 | V | 27.77 | 4.17 | -5.49 | 26.45 | 33.00 |
| | | | | H | 30.33 | 4.51 | -5.49 | 29.36 | 33.00 |
| | | 1880.00 | 661 | V | 25.51 | 4.13 | -5.56 | 24.08 | 33.00 |
| | | | | H | 29.11 | 4.44 | -5.56 | 27.99 | 33.00 |
| | | 1909.80 | 810 | V | 25.34 | 4.09 | -5.56 | 23.87 | 33.00 |
| | | | | H | 28.46 | 4.36 | -5.56 | 27.27 | 33.00 |
| | E1 | 1850.20 | 512 | V | 27.66 | 4.17 | -5.49 | 26.35 | 33.00 |
| | | | | H | 26.48 | 4.51 | -5.49 | 25.51 | 33.00 |
| | | 1880.00 | 661 | V | 22.49 | 4.13 | -5.56 | 21.06 | 33.00 |
| | | | | H | 24.26 | 4.44 | -5.56 | 23.13 | 33.00 |
| | | 1909.80 | 810 | V | 22.91 | 4.09 | -5.56 | 21.45 | 33.00 |
| | | | | H | 22.93 | 4.36 | -5.56 | 21.74 | 33.00 |
| | E2 | 1850.20 | 512 | V | 29.18 | 4.17 | -5.49 | 27.86 | 33.00 |
| | | | | H | 26.13 | 4.51 | -5.49 | 25.16 | 33.00 |
| | | 1880.00 | 661 | V | 25.72 | 4.13 | -5.56 | 24.30 | 33.00 |
| | | | | H | 25.29 | 4.44 | -5.56 | 24.17 | 33.00 |
| | | 1909.80 | 810 | V | 26.75 | 4.09 | -5.56 | 25.29 | 33.00 |
| | | | | H | 24.62 | 4.36 | -5.56 | 23.42 | 33.00 |

Remark :

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

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Measurement Result:

| 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 |
| WCDMA Band II | H | 1852.40 | 9262 | V | 24.04 | 4.17 | -5.49 | 22.72 | 33.00 |
| | | | | H | 25.58 | 4.50 | -5.49 | 24.59 | 33.00 |
| | | 1880.00 | 9400 | V | 23.28 | 4.13 | -5.56 | 21.85 | 33.00 |
| | | | | H | 22.68 | 4.44 | -5.56 | 21.56 | 33.00 |
| | | 1907.60 | 9538 | V | 25.05 | 4.10 | -5.62 | 23.53 | 33.00 |
| | | | | H | 26.53 | 4.37 | -5.62 | 25.28 | 33.00 |
| | E1 | 1852.40 | 9262 | V | 23.31 | 4.17 | -5.49 | 21.99 | 33.00 |
| | | | | H | 21.80 | 4.50 | -5.49 | 20.81 | 33.00 |
| | | 1880.00 | 9400 | V | 20.14 | 4.13 | -5.56 | 18.71 | 33.00 |
| | | | | H | 21.30 | 4.44 | -5.56 | 20.17 | 33.00 |
| | | 1907.60 | 9538 | V | 21.70 | 4.10 | -5.62 | 20.18 | 33.00 |
| | | | | H | 22.57 | 4.37 | -5.62 | 21.32 | 33.00 |
| | E2 | 1852.40 | 9262 | V | 24.50 | 4.17 | -5.49 | 23.19 | 33.00 |
| | | | | H | 23.02 | 4.50 | -5.49 | 22.04 | 33.00 |
| | | 1880.00 | 9400 | V | 23.15 | 4.14 | -5.56 | 21.72 | 33.00 |
| | | | | H | 23.08 | 4.44 | -5.56 | 21.95 | 33.00 |
| | | 1907.60 | 9538 | V | 25.27 | 4.10 | -5.62 | 23.75 | 33.00 |
| | | | | H | 24.47 | 4.37 | -5.62 | 23.22 | 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 | 12.09 | 3.97 | -4.22 | 11.84 | 38.45 |
| | | | | H | 9.77 | 3.97 | -4.22 | 9.51 | 38.45 |
| | | 836.60 | 4183 | V | 12.10 | 3.99 | -4.24 | 11.86 | 38.45 |
| | | | | H | 9.68 | 3.99 | -4.24 | 9.43 | 38.45 |
| | E1 | 846.60 | 4233 | V | 11.14 | 4.02 | -4.24 | 10.92 | 38.45 |
| | | | | H | 9.73 | 4.02 | -4.24 | 9.51 | 38.45 |
| | | 826.40 | 4132 | V | 15.54 | 3.97 | -4.22 | 15.29 | 38.45 |
| | | | | H | 13.87 | 3.97 | -4.22 | 13.62 | 38.45 |
| | | 836.60 | 4183 | V | 15.64 | 3.99 | -4.24 | 15.40 | 38.45 |
| | | | | H | 14.03 | 3.99 | -4.24 | 13.78 | 38.45 |
| | E2 | 846.60 | 4233 | V | 15.18 | 4.02 | -4.24 | 14.96 | 38.45 |
| | | | | H | 14.18 | 4.02 | -4.33 | 13.88 | 38.45 |
| | | 826.40 | 4132 | V | 13.02 | 3.97 | -4.22 | 12.77 | 38.45 |
| | | | | H | 14.45 | 3.97 | -4.22 | 14.2 | 38.45 |
| | | 836.60 | 4183 | V | 12.46 | 3.99 | -4.24 | 12.22 | 38.45 |
| | | | | H | 14.67 | 3.99 | -4.24 | 14.43 | 38.45 |
| | | 846.60 | 4233 | V | 12.14 | 4.02 | -4.24 | 11.92 | 38.45 |
| | | | | H | 15.15 | 4.02 | -4.24 | 14.93 | 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 |
| HSDPA Band II | H | 1852.40 | 9262 | V | 25.16 | 4.17 | -5.49 | 23.84 | 33.00 |
| | | | | H | 25.78 | 4.50 | -5.49 | 24.79 | 33.00 |
| | | 1880.00 | 9400 | V | 24.09 | 4.13 | -5.56 | 22.66 | 33.00 |
| | | | | H | 26.59 | 4.44 | -5.56 | 25.46 | 33.00 |
| | | 1907.60 | 9538 | V | 25.76 | 4.1 | -5.62 | 24.24 | 33.00 |
| | | | | H | 27.35 | 4.37 | -5.62 | 26.09 | 33.00 |
| | E1 | 1852.40 | 9262 | V | 24.33 | 4.17 | -5.49 | 23.01 | 33.00 |
| | | | | H | 23.29 | 4.50 | -5.49 | 22.31 | 33.00 |
| | | 1880.00 | 9400 | V | 21.48 | 4.14 | -5.56 | 20.05 | 33.00 |
| | | | | H | 22.96 | 4.44 | -5.56 | 21.83 | 33.00 |
| | | 1907.60 | 9538 | V | 22.96 | 4.10 | -5.62 | 21.43 | 33.00 |
| | | | | H | 24.01 | 4.37 | -5.62 | 22.76 | 33.00 |
| | E2 | 1852.40 | 9262 | V | 26.51 | 4.17 | -5.49 | 25.19 | 33.00 |
| | | | | H | 24.06 | 4.50 | -5.49 | 23.08 | 33.00 |
| | | 1880.00 | 9400 | V | 25.22 | 4.14 | -5.56 | 23.79 | 33.00 |
| | | | | H | 23.85 | 4.44 | -5.56 | 22.73 | 33.00 |
| | | 1907.60 | 9538 | V | 27.18 | 4.10 | -5.62 | 25.66 | 33.00 |
| | | | | H | 25.03 | 4.37 | -5.62 | 23.78 | 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 |
| HSDPA Band V | H | 826.40 | 4132 | V | 13.63 | 3.97 | -4.22 | 13.38 | 38.45 |
| | | | | H | 11.64 | 3.97 | -4.22 | 11.39 | 38.45 |
| | | 836.60 | 4183 | V | 13.91 | 3.99 | -4.24 | 13.66 | 38.45 |
| | | | | H | 11.45 | 3.99 | -4.24 | 11.21 | 38.45 |
| | E1 | 846.60 | 4233 | V | 13.40 | 4.02 | -4.24 | 13.19 | 38.45 |
| | | | | H | 11.83 | 4.02 | -4.24 | 11.61 | 38.45 |
| | | 826.40 | 4132 | V | 11.17 | 3.97 | -4.22 | 10.92 | 38.45 |
| | | | | H | 17.38 | 3.97 | -4.22 | 17.12 | 38.45 |
| | | 836.60 | 4183 | V | 11.74 | 3.99 | -4.24 | 11.5 | 38.45 |
| | | | | H | 17.06 | 3.99 | -4.24 | 16.82 | 38.45 |
| | E2 | 846.60 | 4233 | V | 10.67 | 4.02 | -4.24 | 10.46 | 38.45 |
| | | | | H | 17.68 | 4.02 | -4.24 | 17.46 | 38.45 |
| | | 826.40 | 4132 | V | 14.79 | 3.97 | -4.22 | 14.53 | 38.45 |
| | | | | H | 17.27 | 3.97 | -4.22 | 17.02 | 38.45 |
| | | 836.60 | 4183 | V | 13.69 | 3.99 | -4.24 | 13.45 | 38.45 |
| | | | | H | 16.79 | 3.99 | -4.24 | 16.55 | 38.45 |
| | | 846.60 | 4233 | V | 13.61 | 4.02 | -4.24 | 13.39 | 38.45 |
| | | | | H | 17.42 | 4.02 | -4.24 | 17.20 | 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.

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 (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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8.5. Measurement Result:

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (kHz) |
|-----------------|------------------------|-----------|----------------------------|
| GPRS 850 | 824.20 | 128 | 248.6717 |
| | 836.60 | 190 | 247.6206 |
| | 848.80 | 251 | 242.3072 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (kHz) |
|-----------------|------------------------|-----------|----------------------------|
| GPRS 1900 | 1850.20 | 512 | 249.6803 |
| | 1880.00 | 661 | 241.1010 |
| | 1909.80 | 810 | 245.6206 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (kHz) |
|-----------------|------------------------|-----------|----------------------------|
| EDGE 850 | 824.20 | 128 | 242.9786 |
| | 836.60 | 190 | 241.8722 |
| | 848.80 | 251 | 240.9309 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (kHz) |
|-----------------|------------------------|-----------|----------------------------|
| EDGE 1900 | 1850.20 | 512 | 239.8624 |
| | 1880.00 | 661 | 242.4461 |
| | 1909.80 | 810 | 237.7202 |

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| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| WCDMA II | 1852.40 | 9262 | 4.1752 |
| | 1880.00 | 9400 | 4.1688 |
| | 1907.60 | 9538 | 4.1864 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| WCDMA V | 826.40 | 4132 | 4.1660 |
| | 836.00 | 4180 | 4.1636 |
| | 846.60 | 4233 | 4.1598 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| HSDPA II | 1852.4 | 9262 | 4.1820 |
| | 1880.0 | 9400 | 4.1891 |
| | 1907.6 | 9538 | 4.1799 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| HSDPA V | 826.40 | 4132 | 4.1366 |
| | 836.60 | 4183 | 4.1413 |
| | 846.60 | 4233 | 4.1589 |

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Figure 8-1: GPRS 850 Channel Low

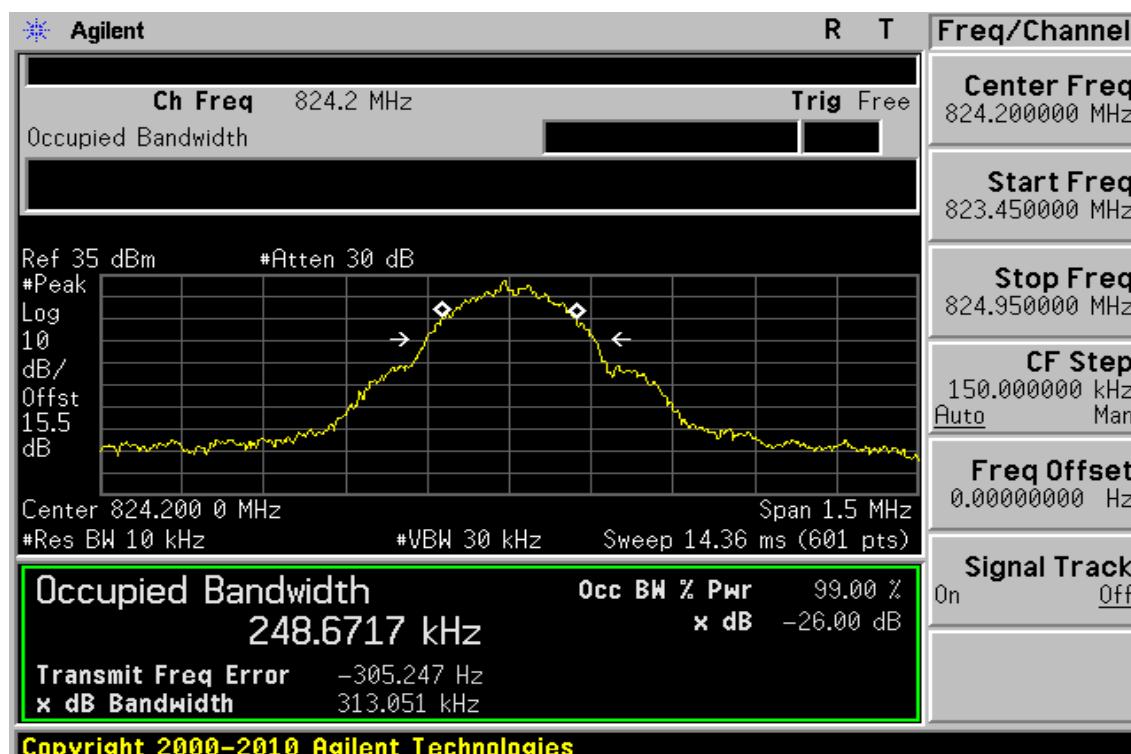
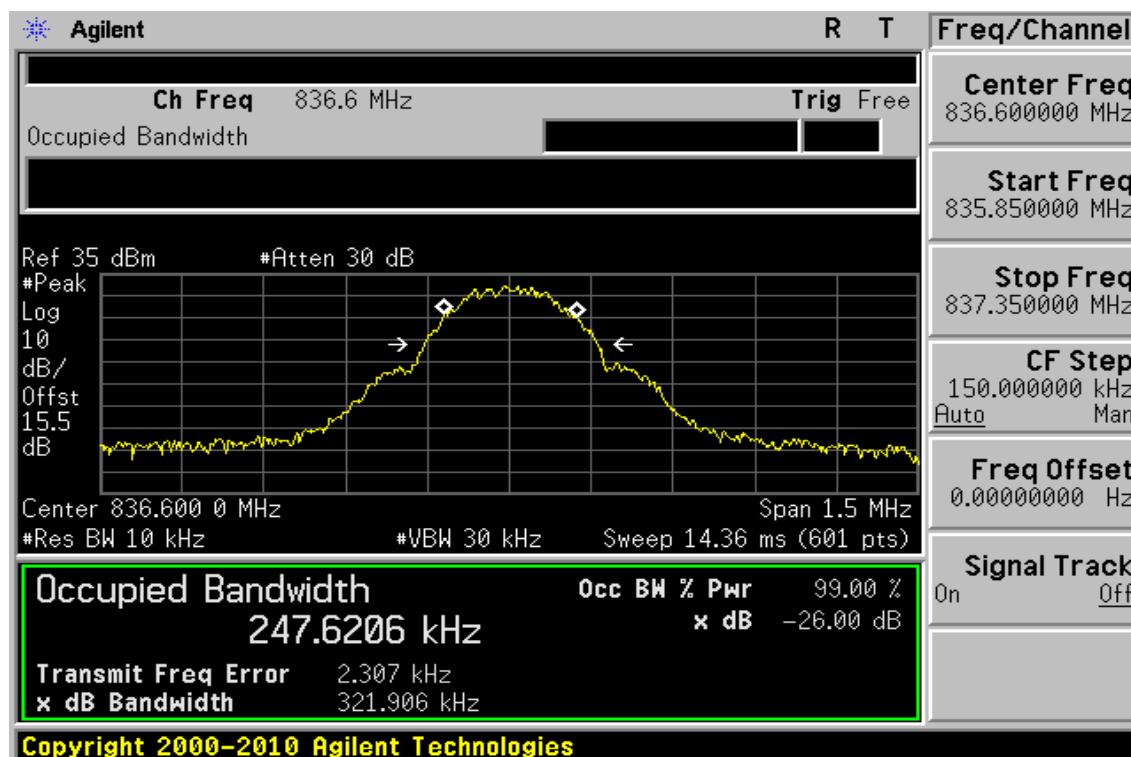


Figure 8-2: GPRS 850 Channel Mid



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Figure 8-3: GPRS 850 Channel High

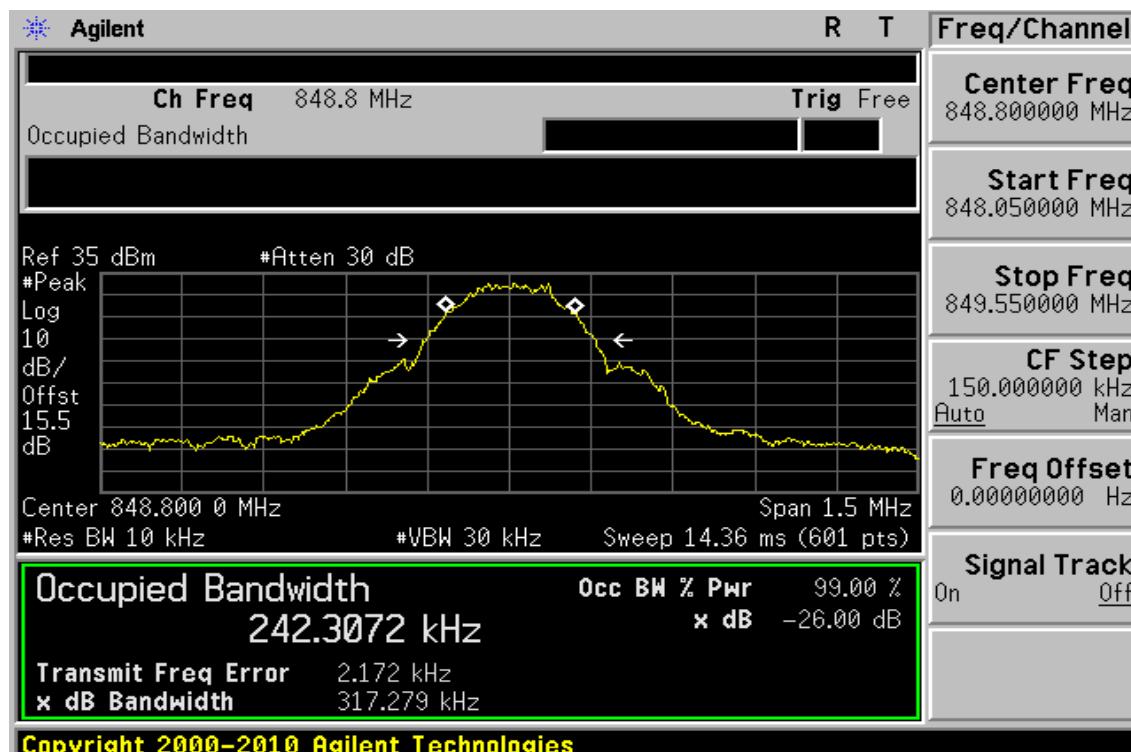
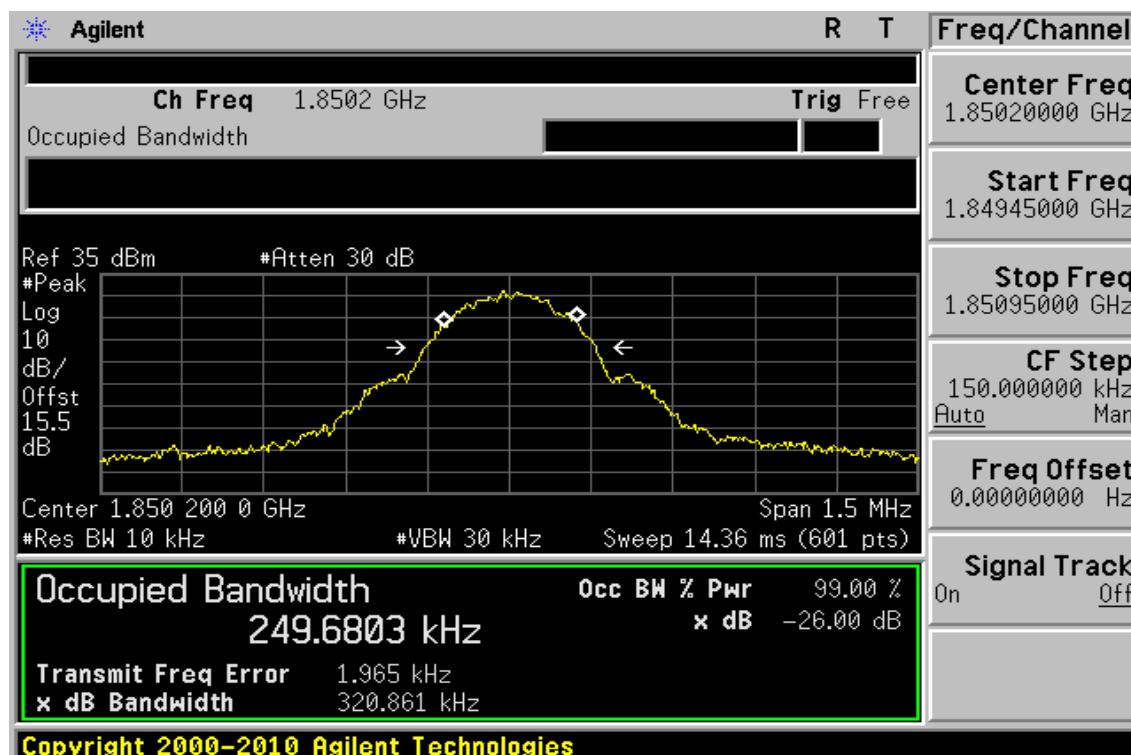


Figure 8-4: GPRS 1900 Channel Low



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Figure 8-5: GPRS 1900 Channel Mid

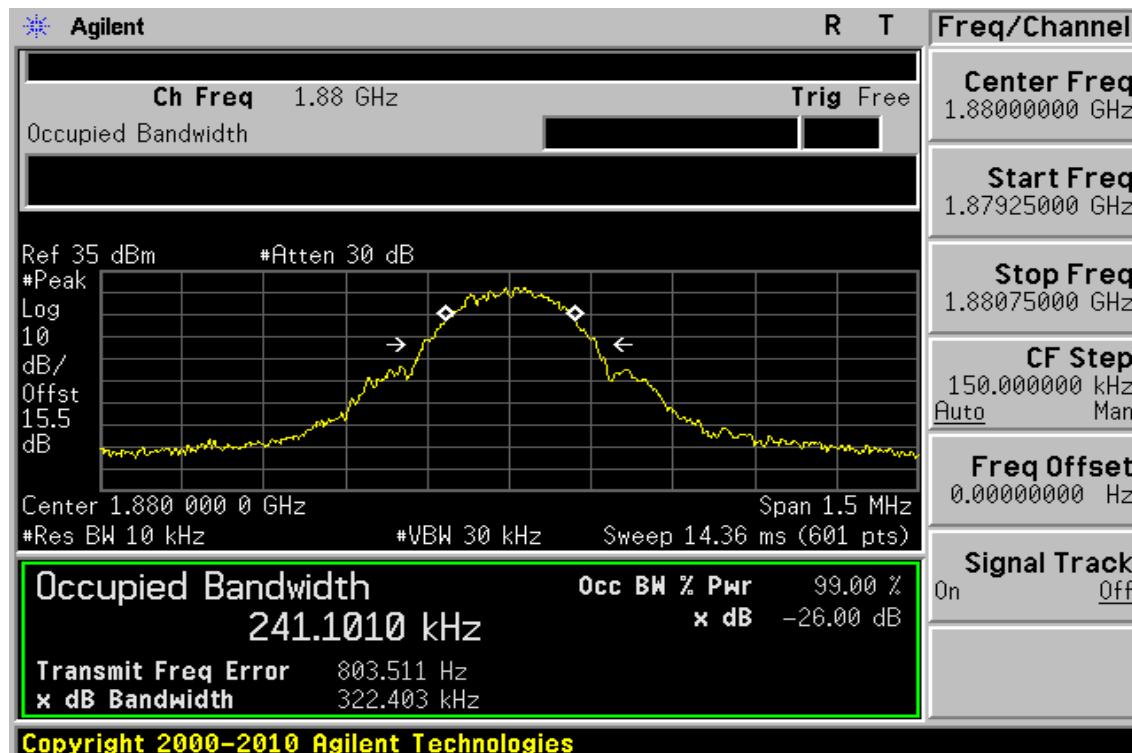
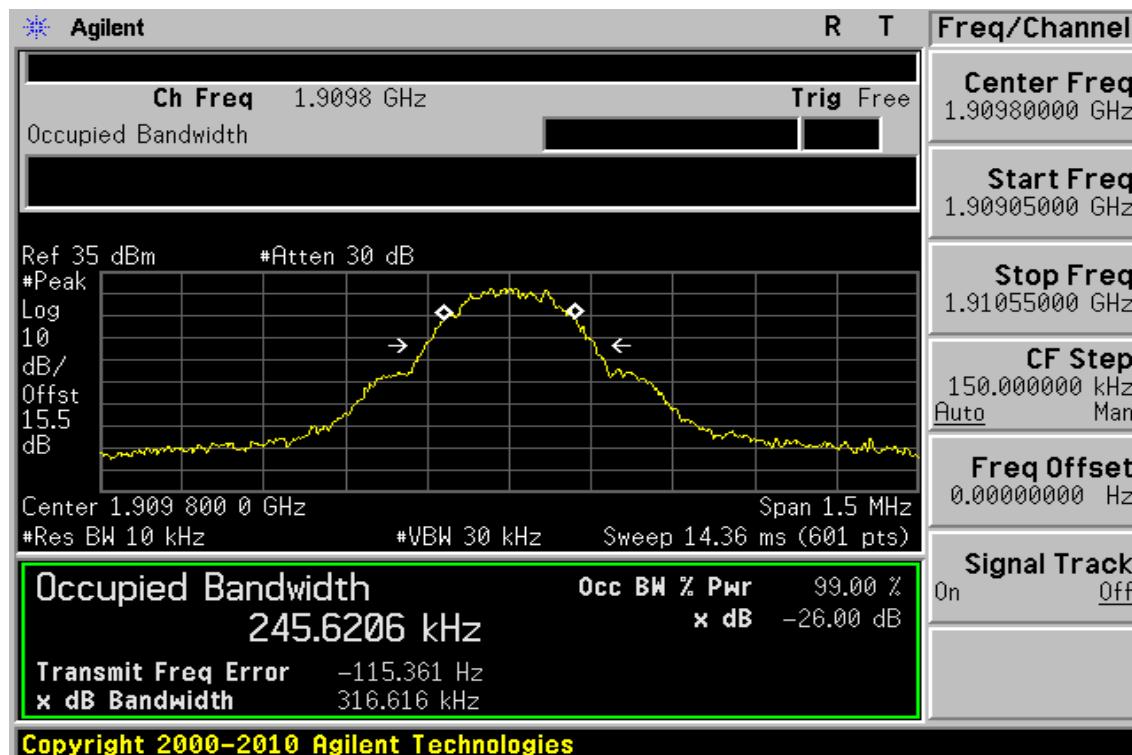


Figure 8-6: GPRS 1900 Channel High



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Figure 8-6: EDGE 850 Channel Low

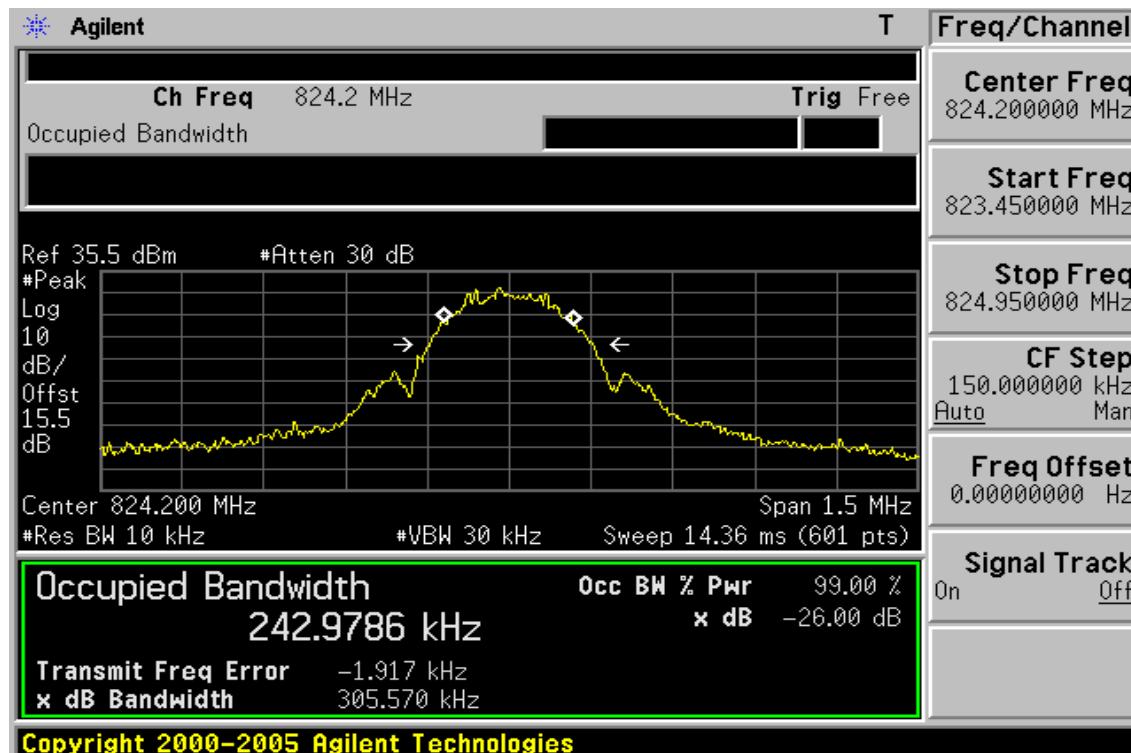
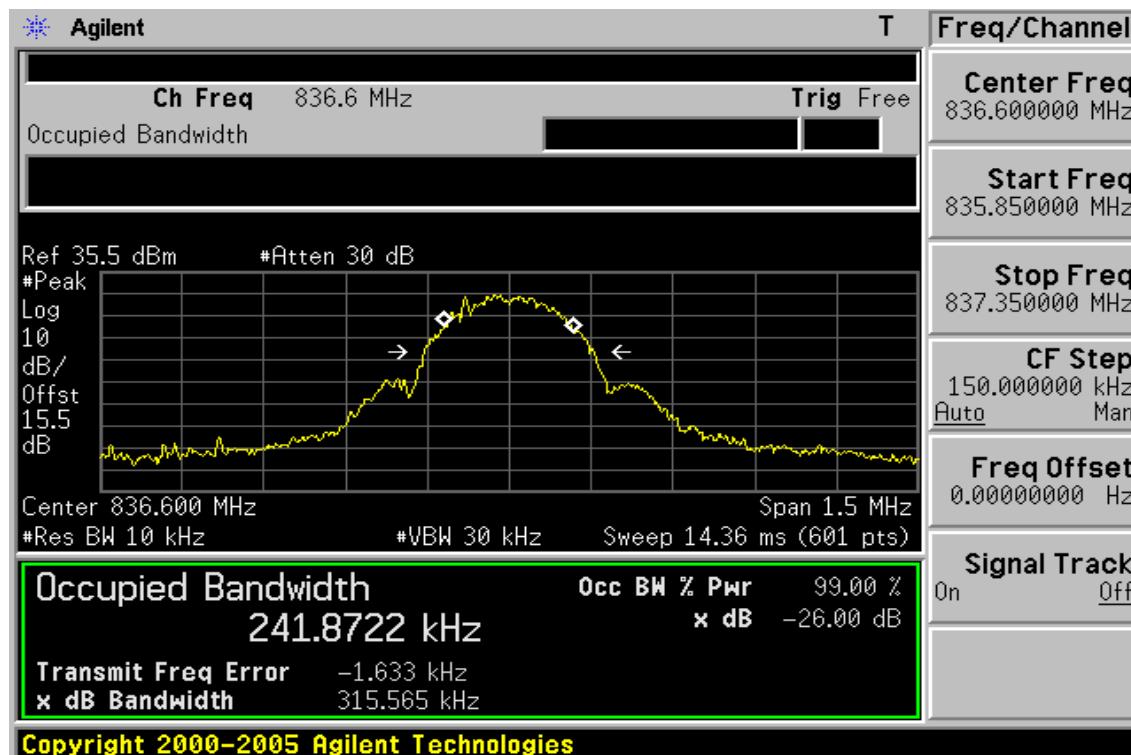


Figure 8-6: EDGE 850 Channel Mid



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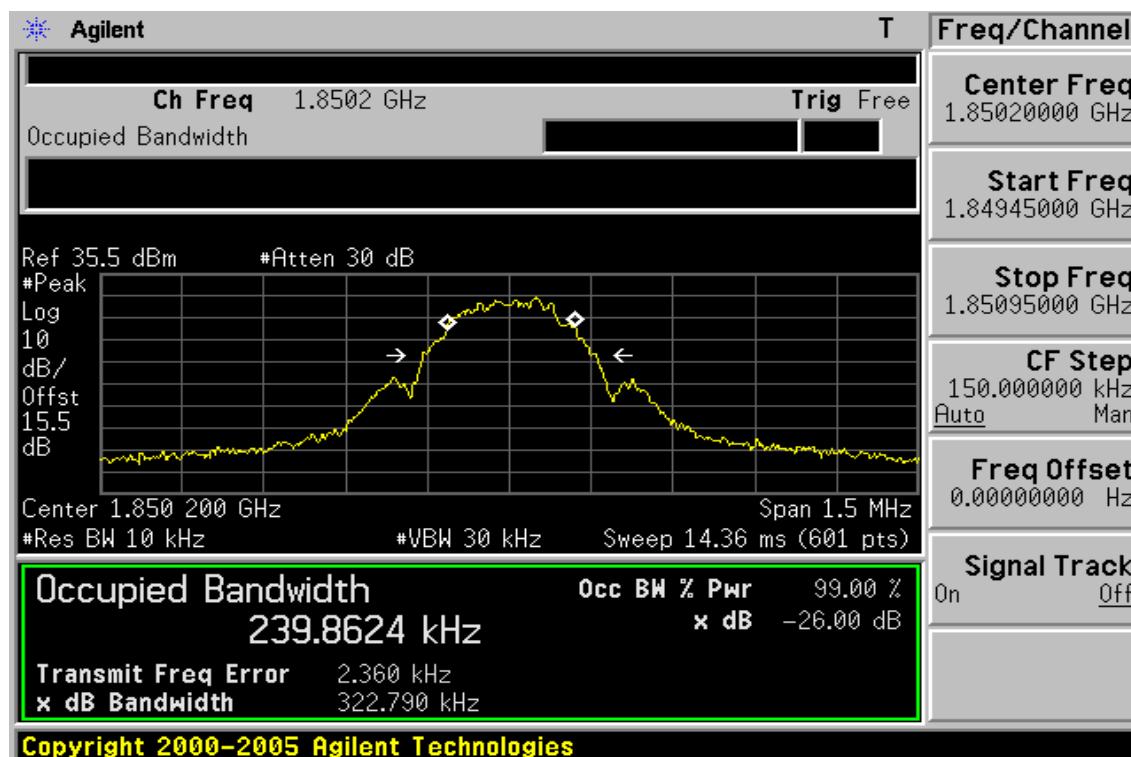
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Figure 8-7: EDGE 850 Channel High



Figure 8-8: EDGE 1900 Channel Low



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Figure 8-9: EDGE 1900 Channel Mid

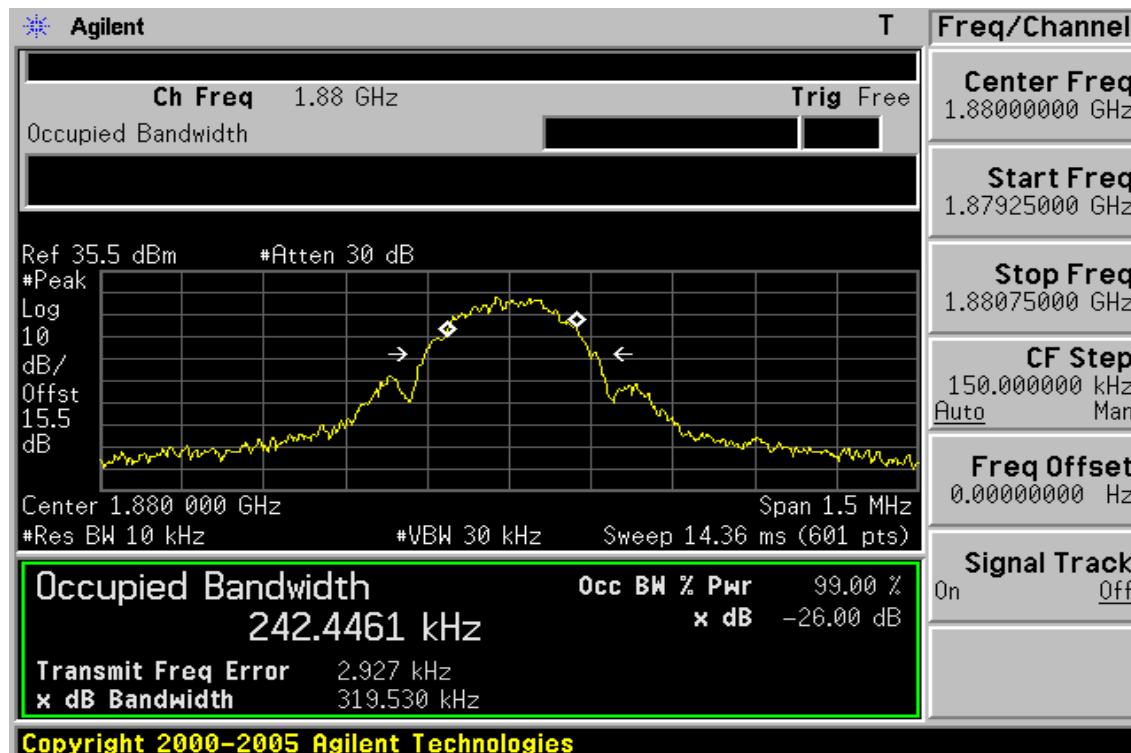
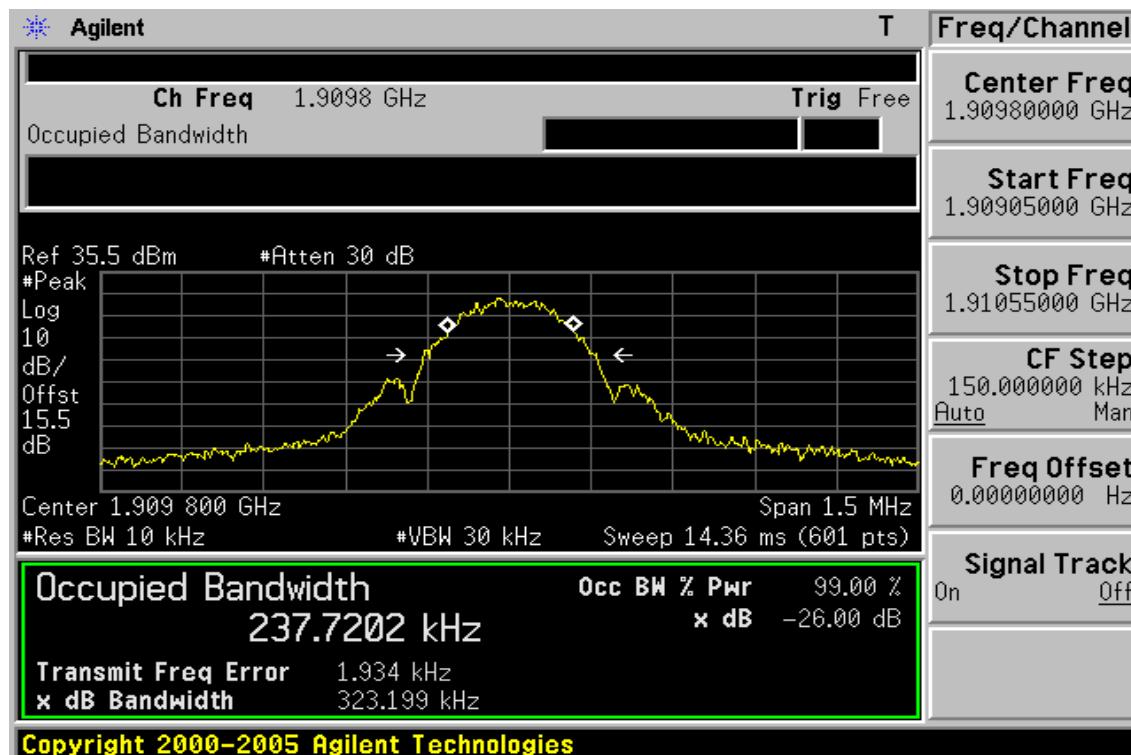


Figure 8-10: EDGE 1900 Channel High



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Figure 8-11: WCDMA II Channel Low

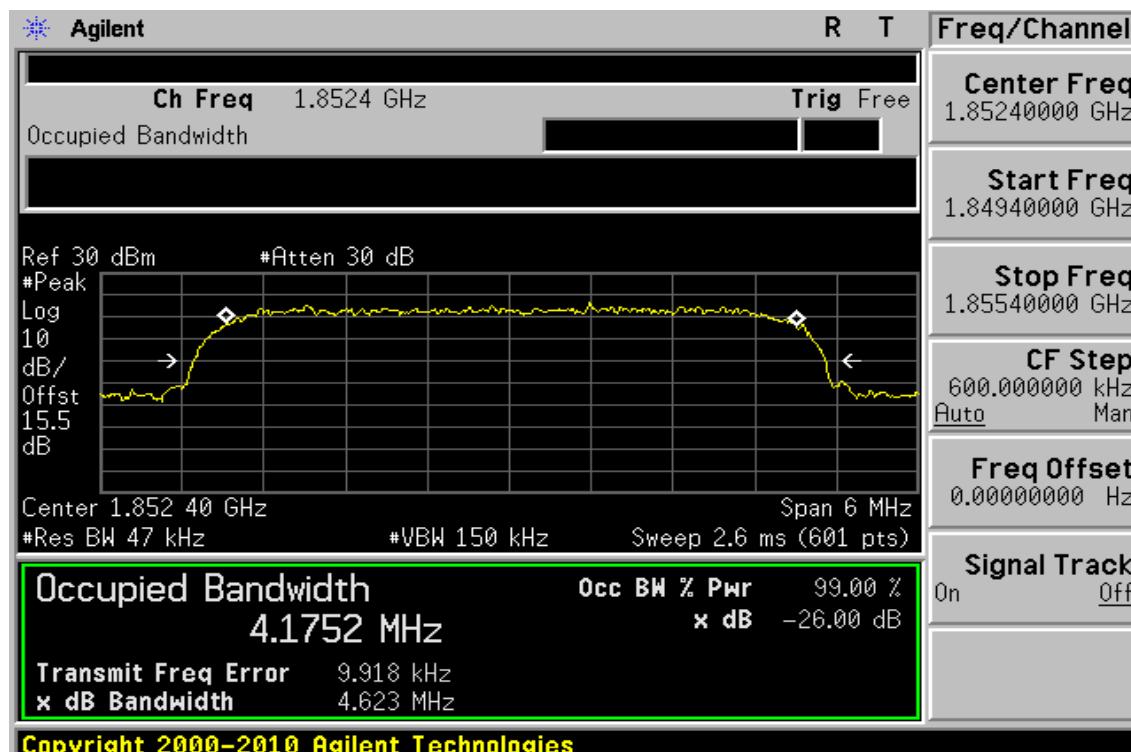
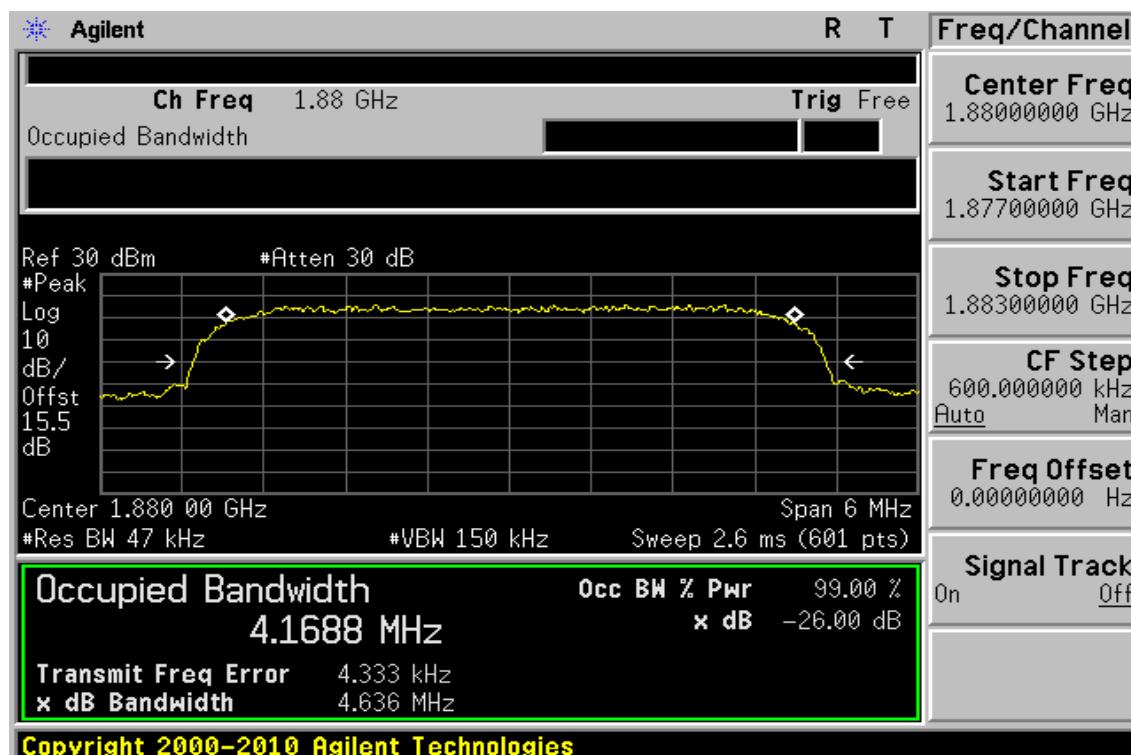


Figure 8-12: WCDMA II Channel Mid



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Figure 8-13: WCDMA II Channel High

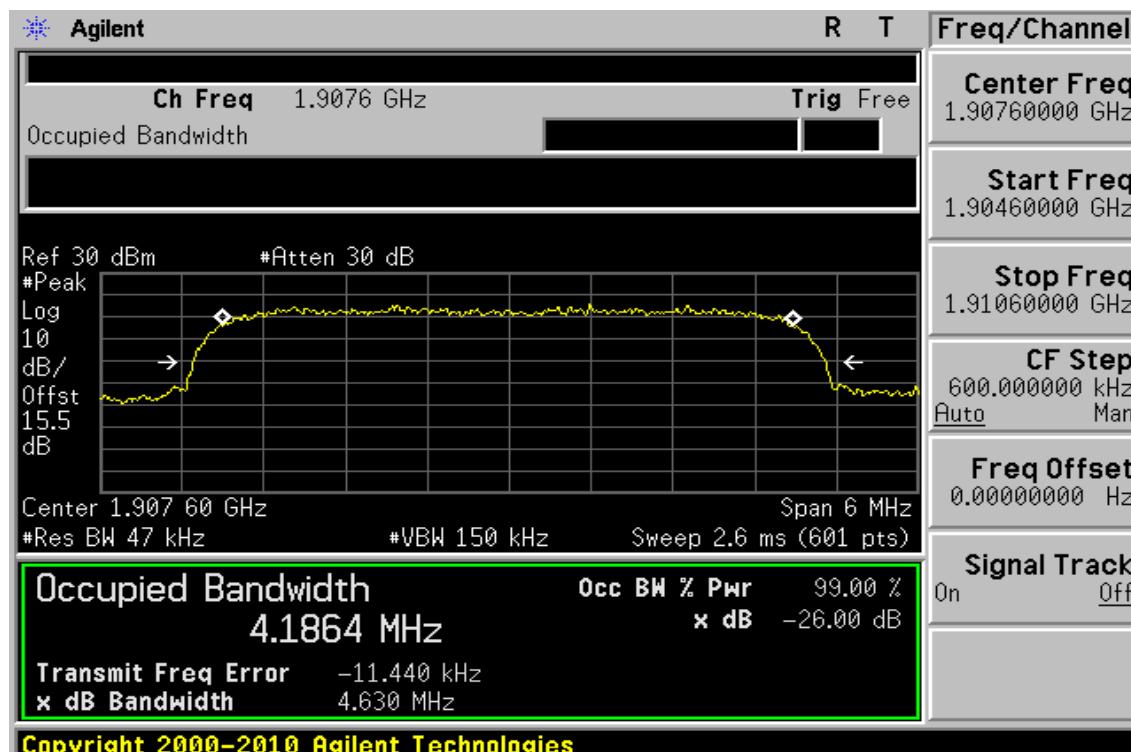
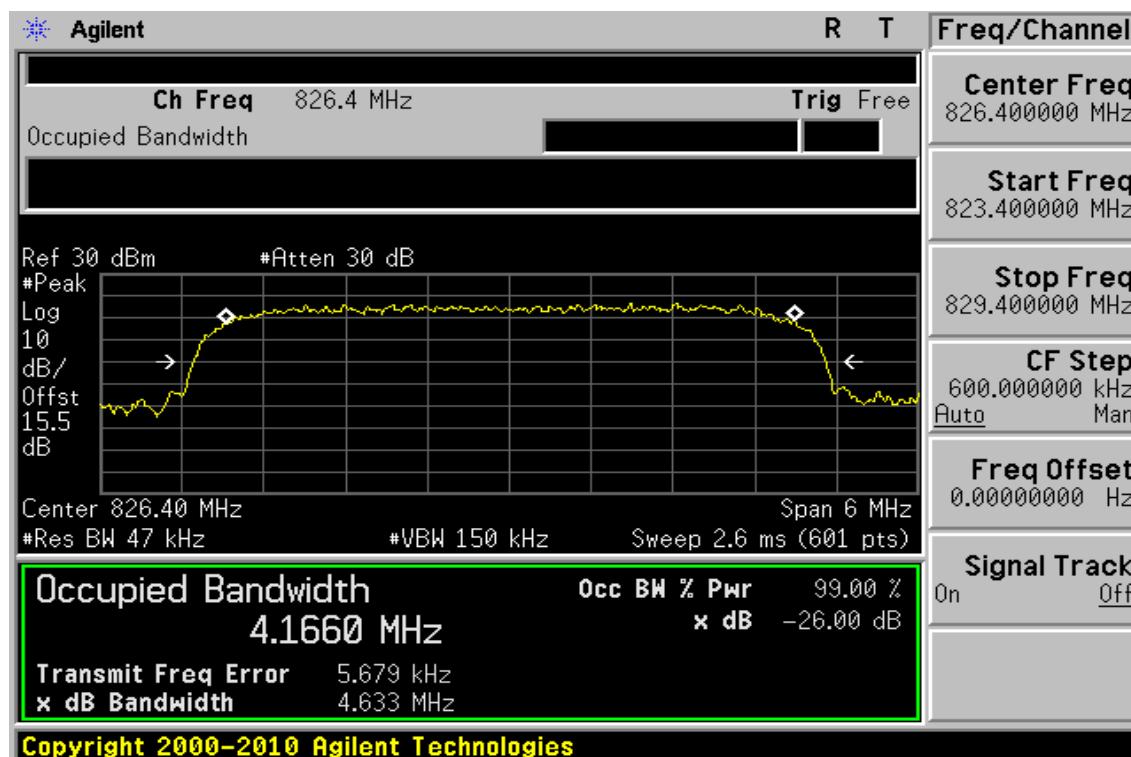


Figure 8-14: WCDMA V Channel Low



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Figure 8-15: WCDMA V Channel Mid

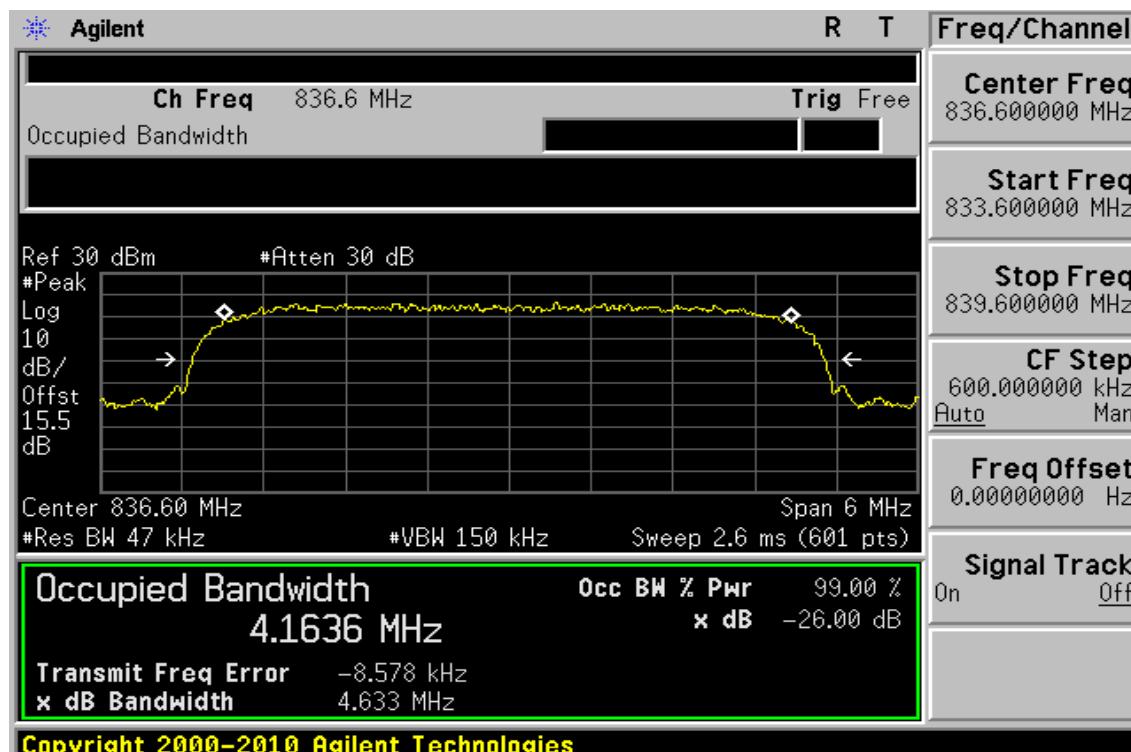
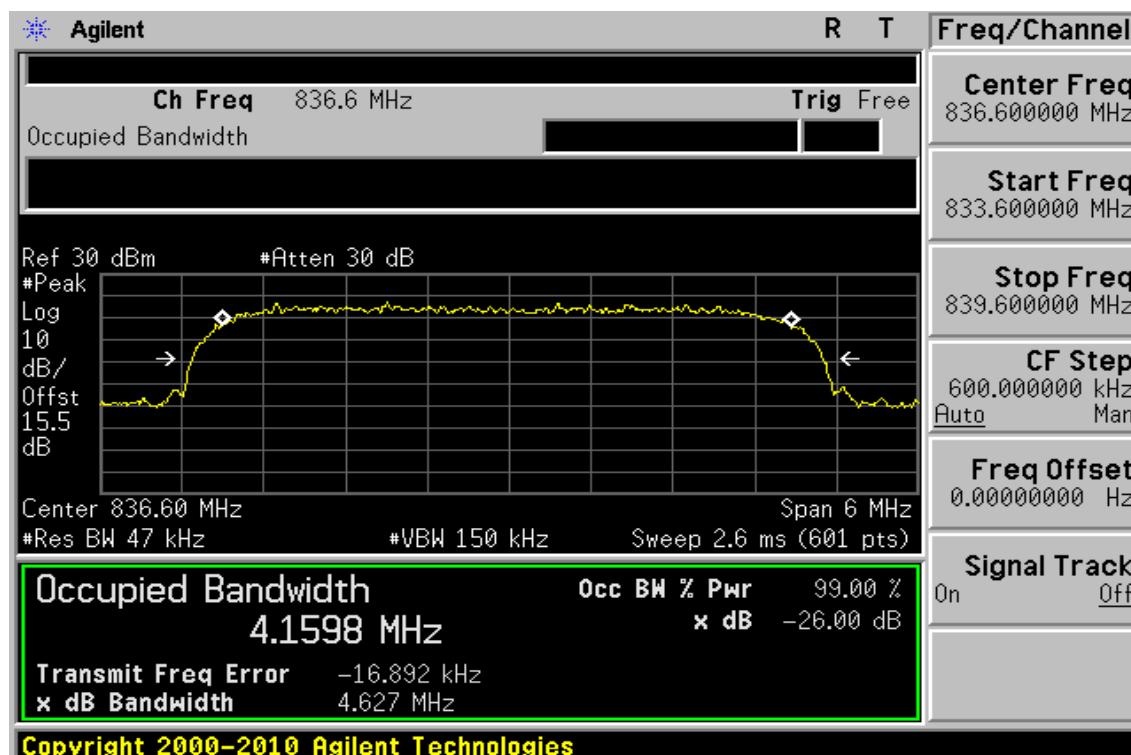


Figure 8-16: WCDMA V Channel High



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Figure 8-17: HSDPA II Channel Low

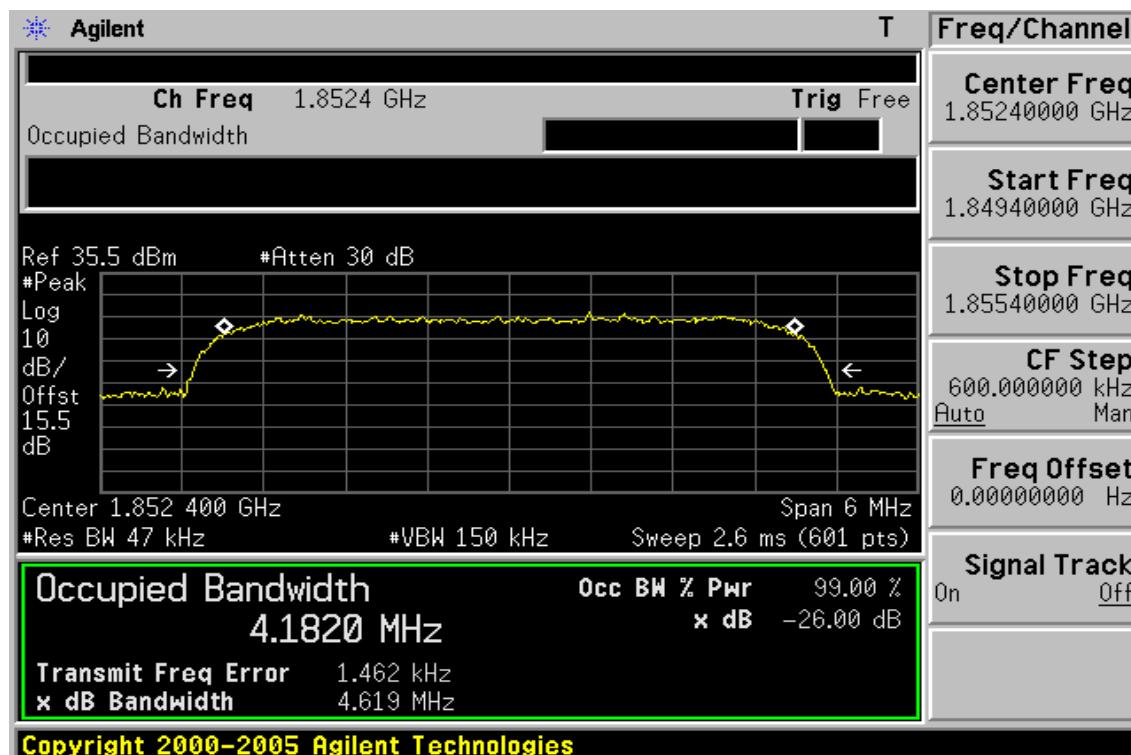
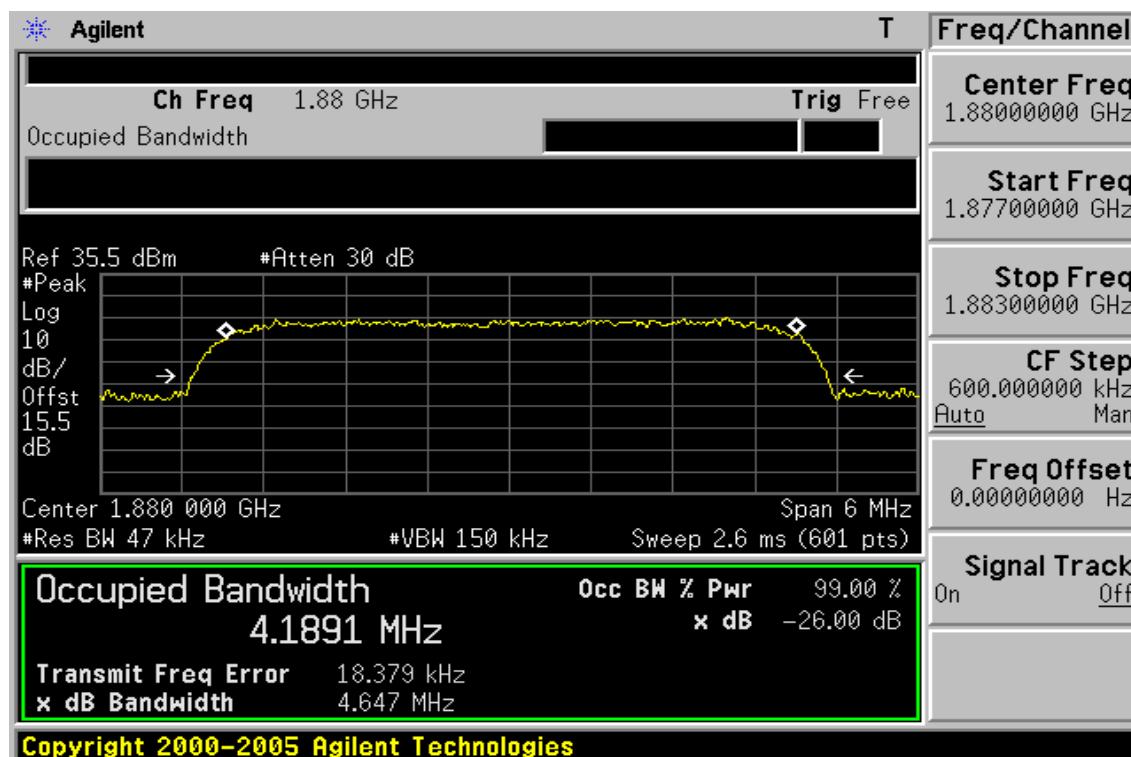


Figure 8-18: HSDPA II Channel Mid



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Figure 8-19: HSDPA II Channel High

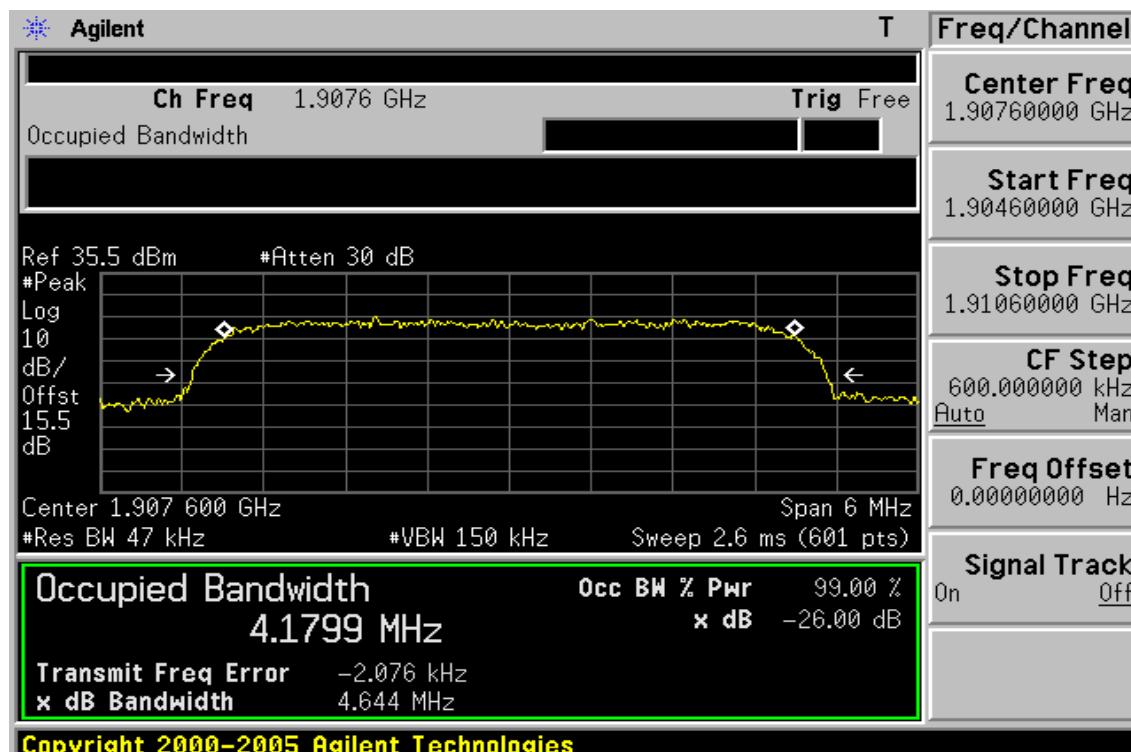
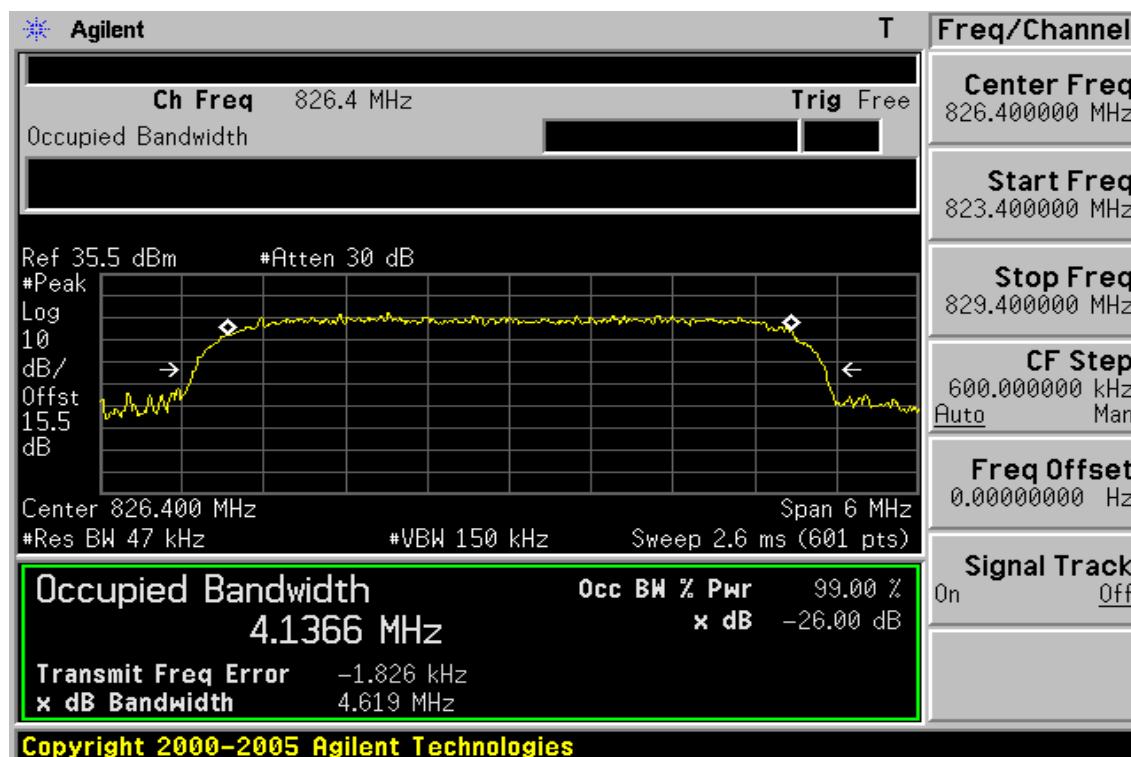


Figure 8-20: HSDPA V Channel Low



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Figure 8-21: HSDPA V Channel Mid

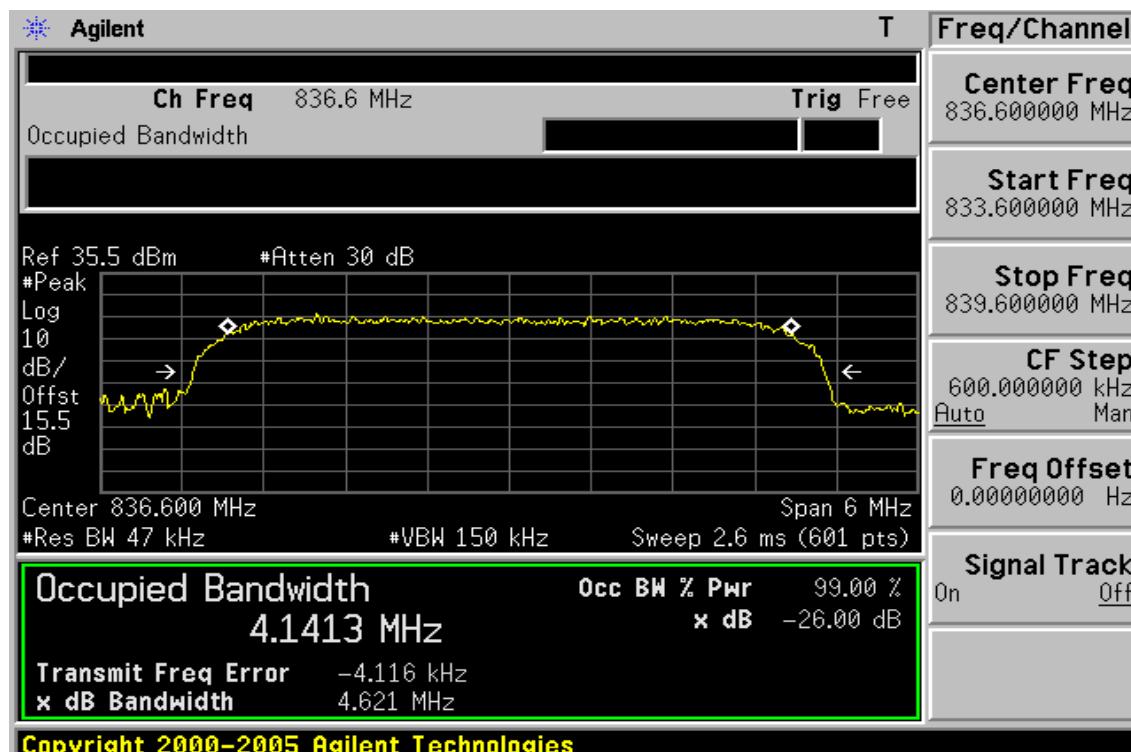
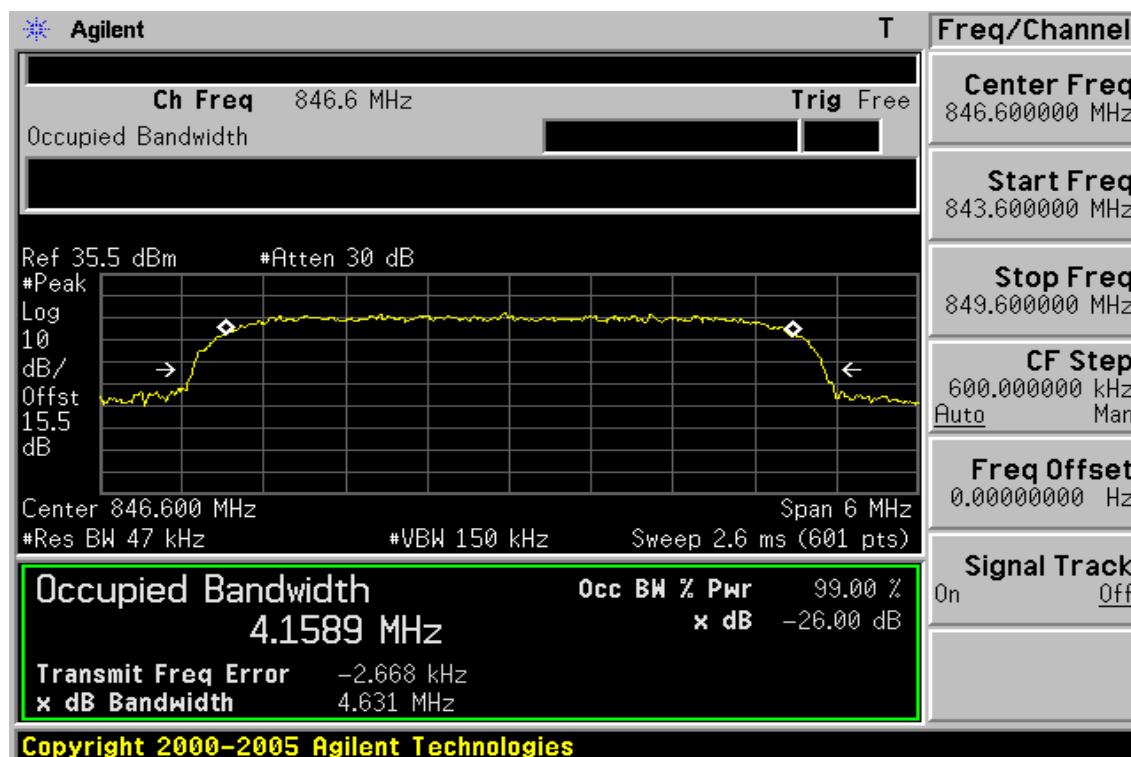


Figure 8-22: HSDPA V Channel High



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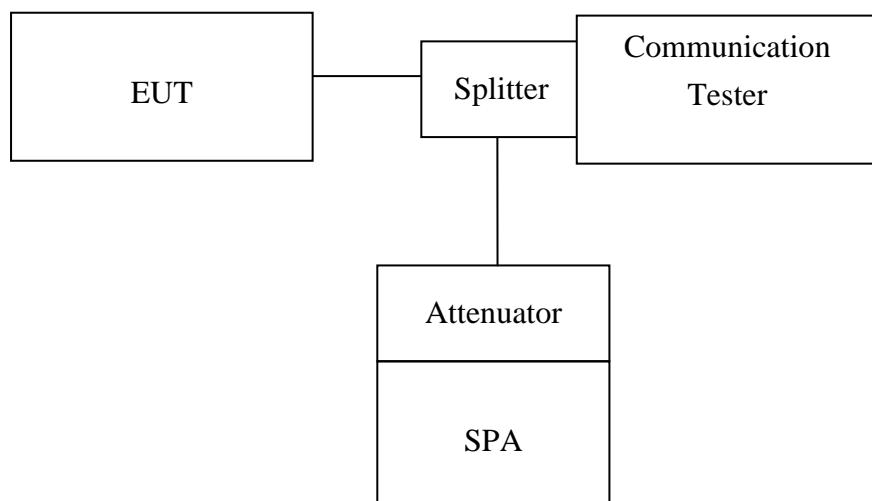
9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

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)

9.2. Test SET-UP:



Note: Measurement setup for testing on Antenna connector

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9.3. Measurement Procedure:

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic. Limit = -13dBm

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

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

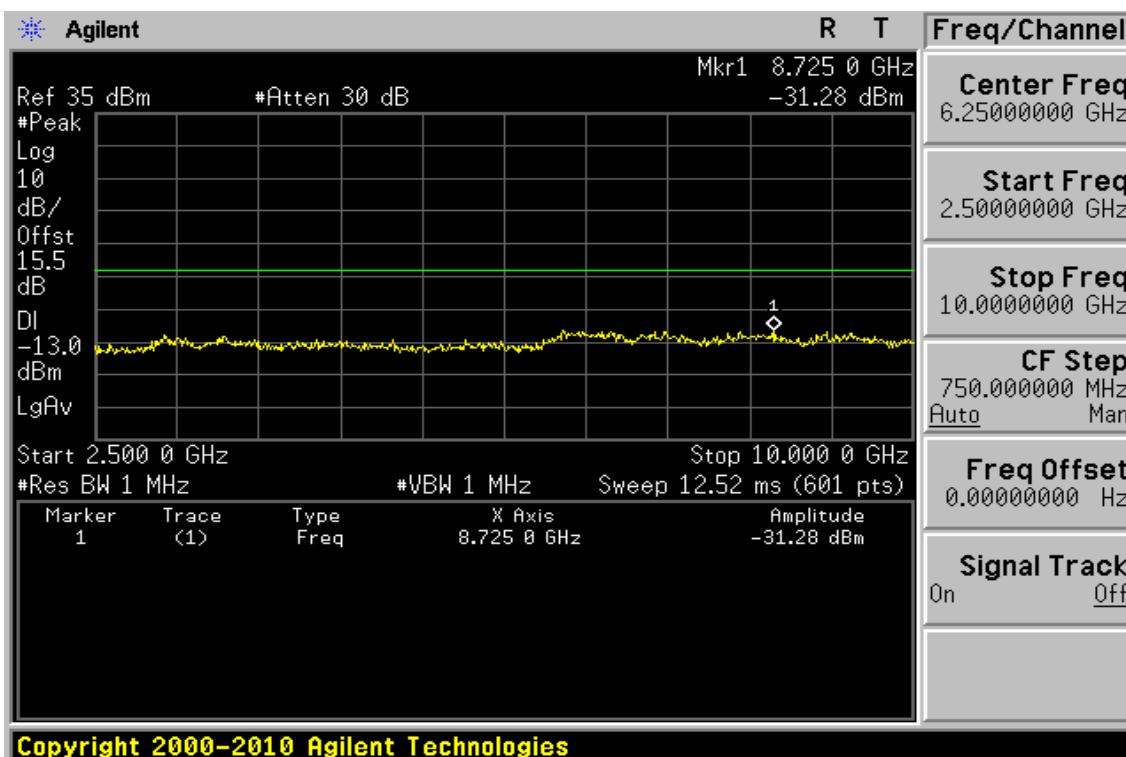
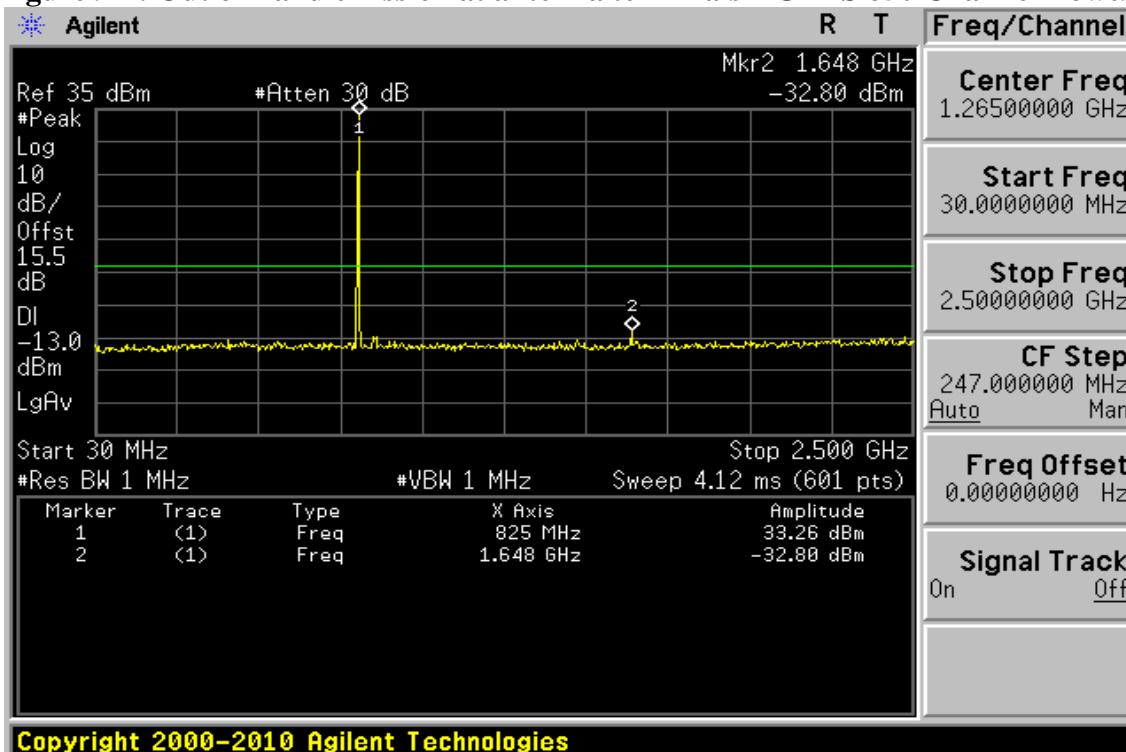
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9.5. Measurement Result:

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

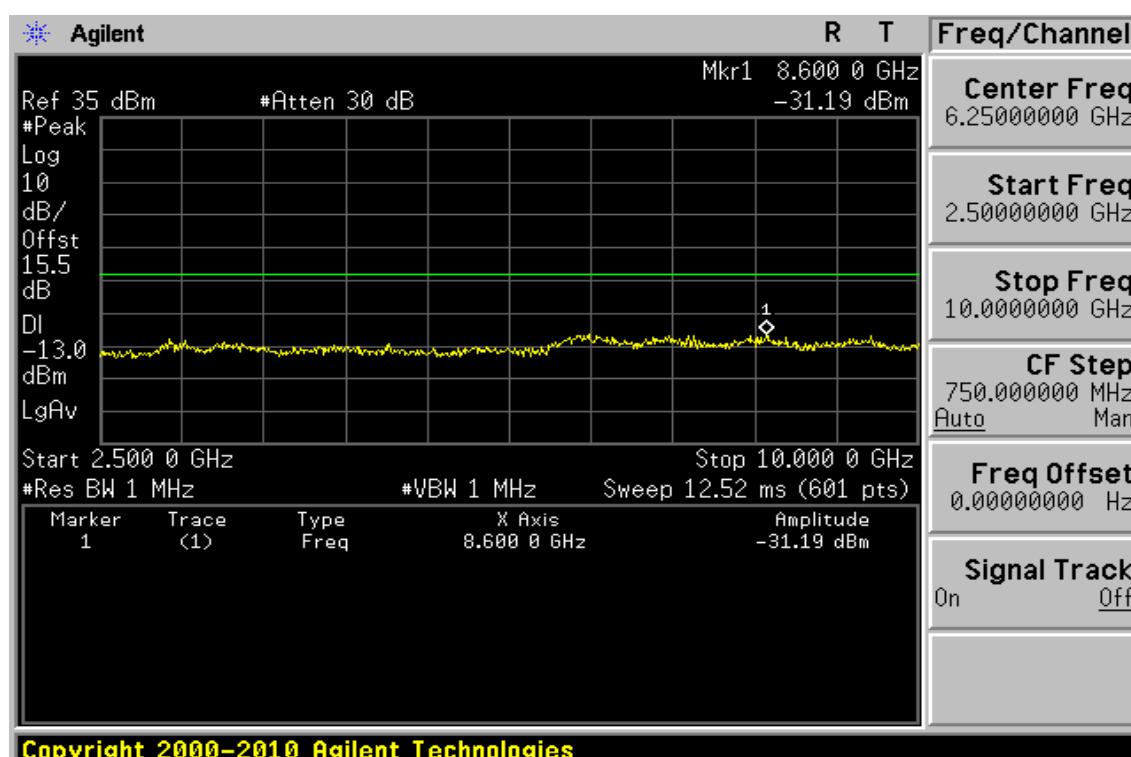
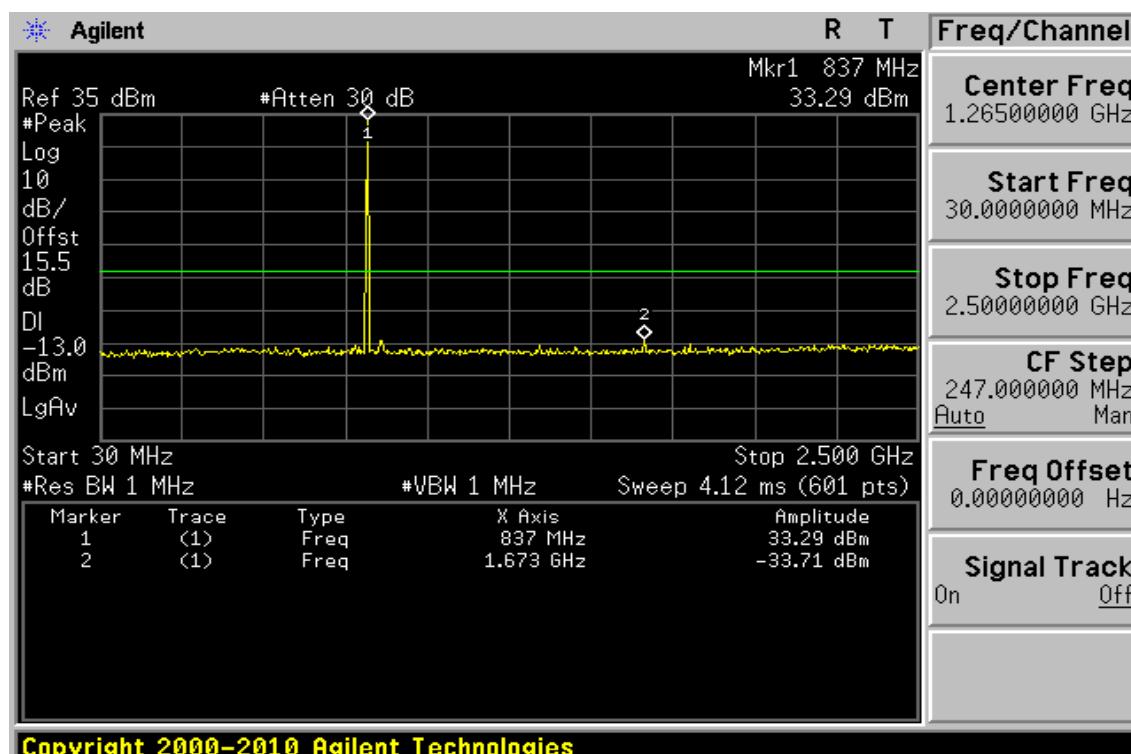


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Figure 9-2: Out of Band emission at antenna terminals – GPRS 850 Channel Mid

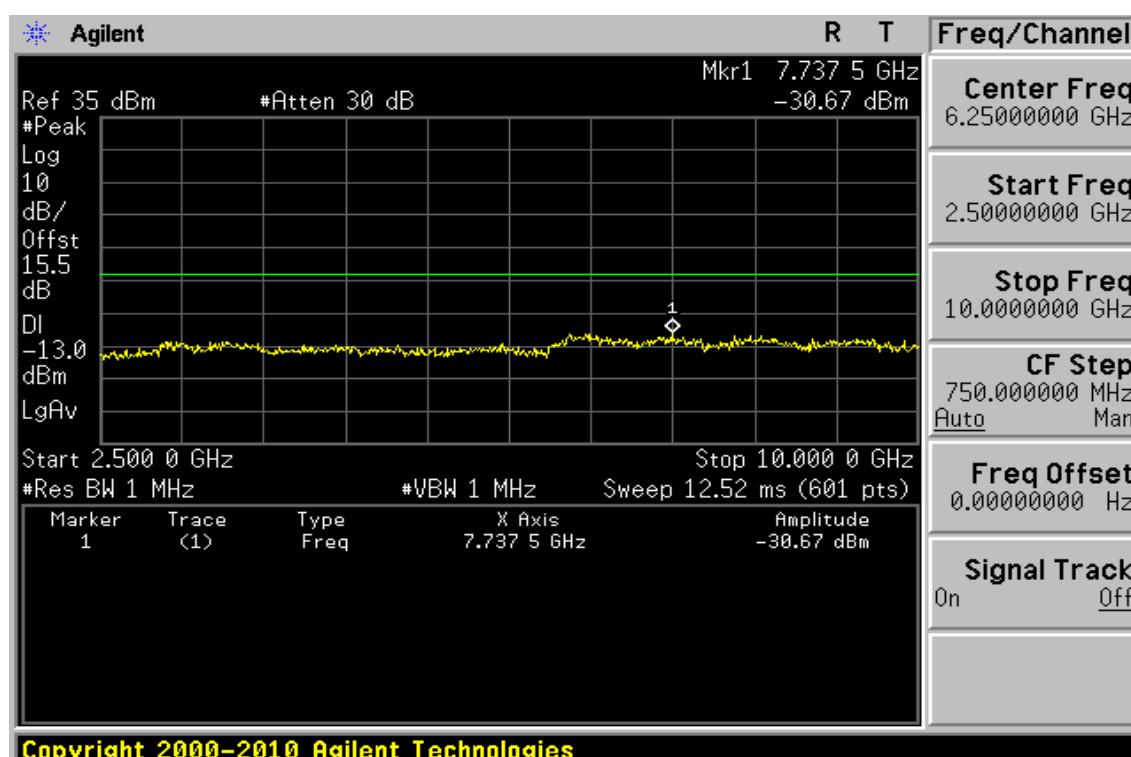
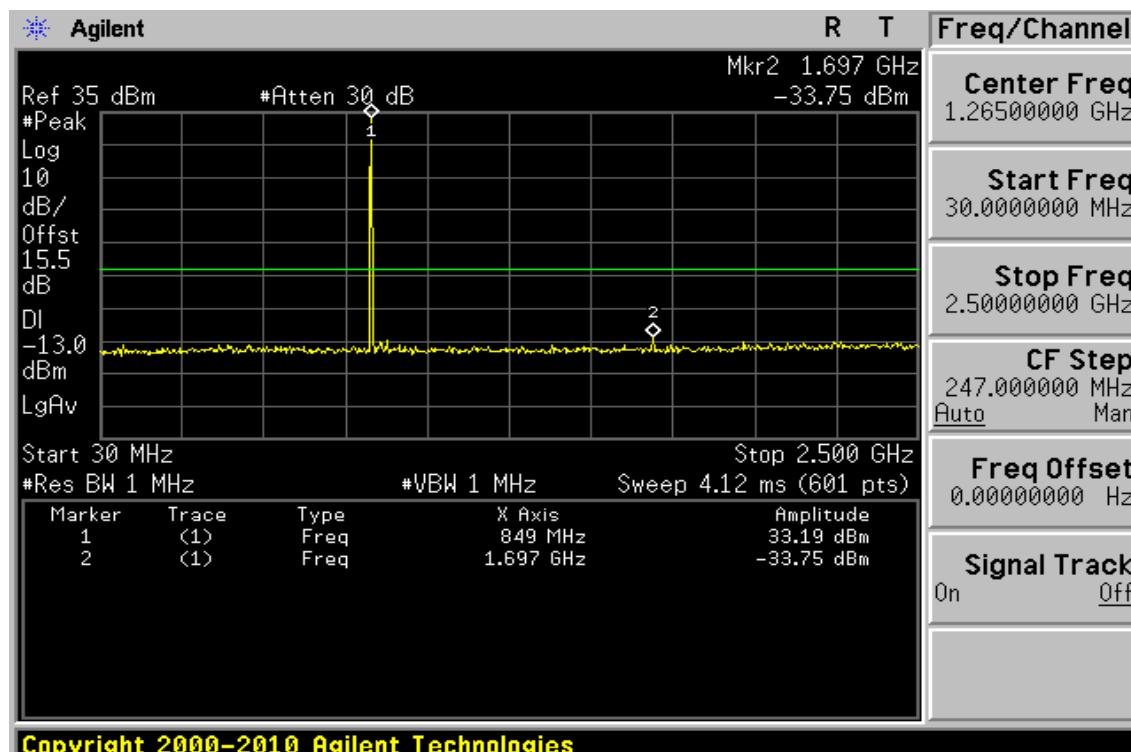


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Figure 9-3: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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

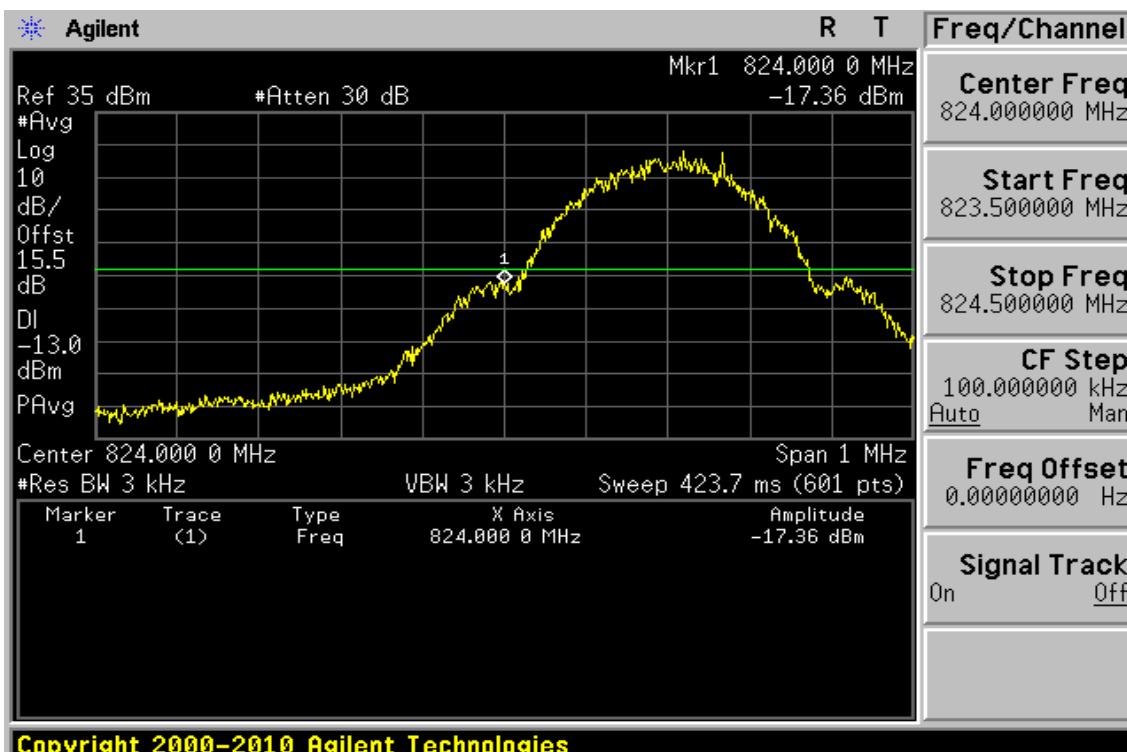
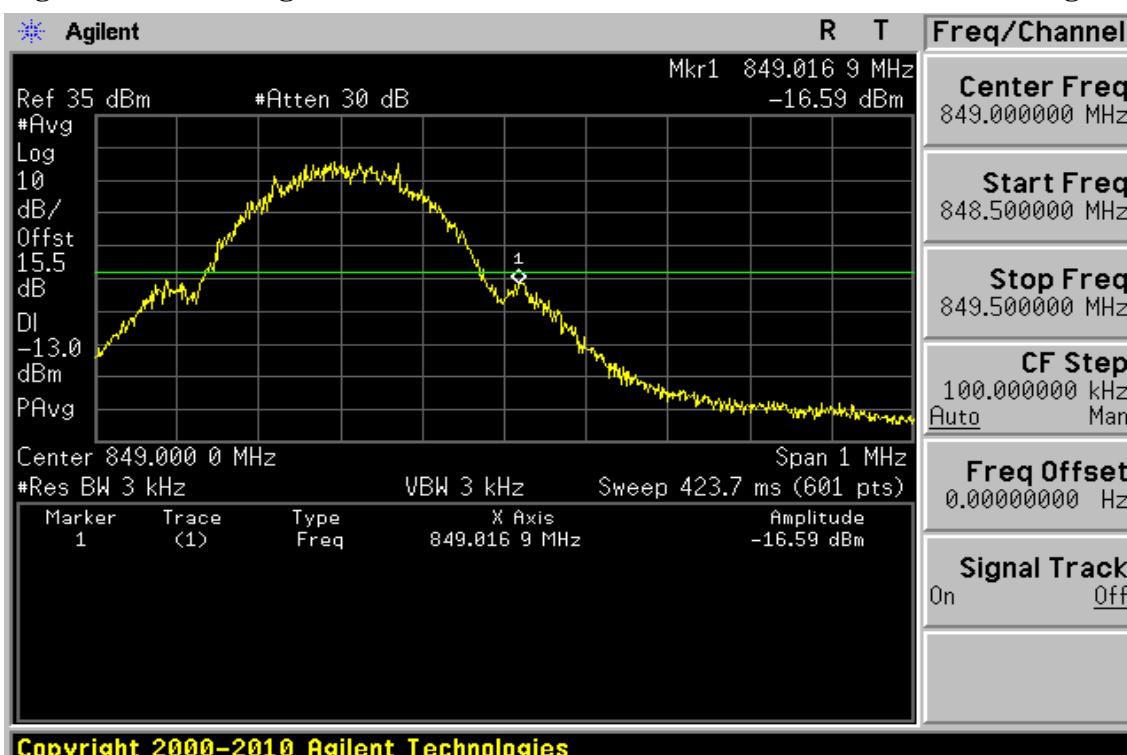


Figure 9-5: Band edge emission at antenna terminals – GPRS 850 Channel Highest

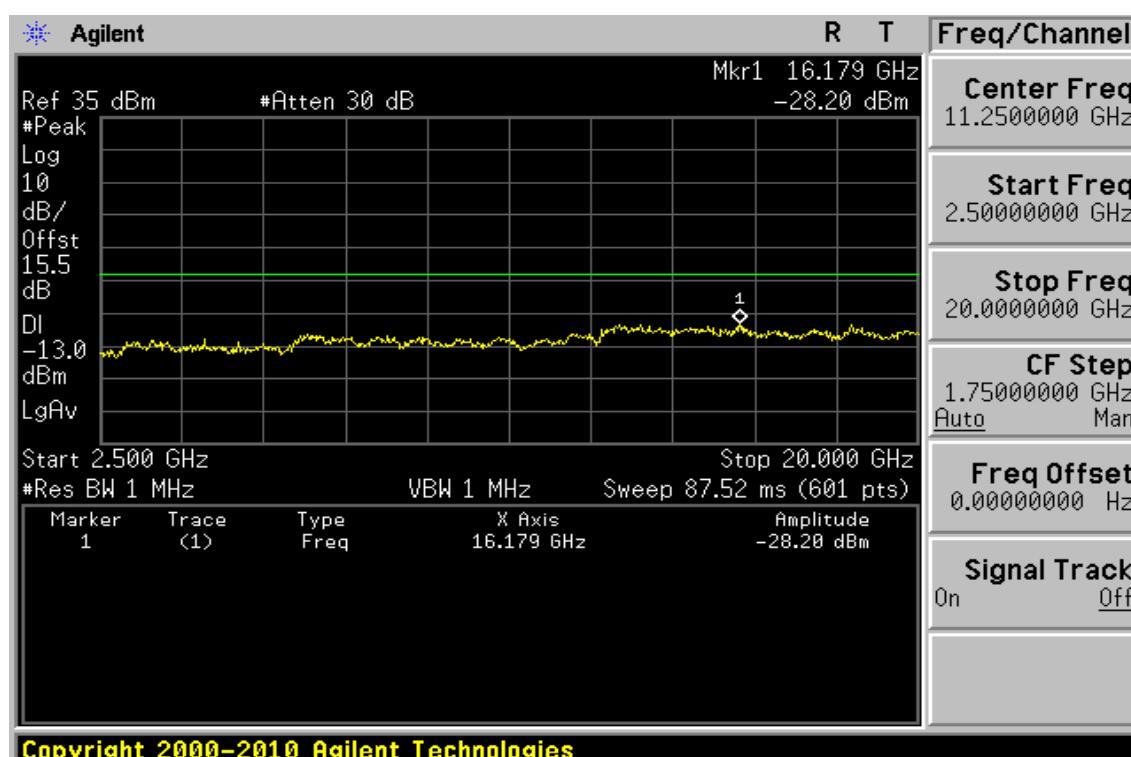
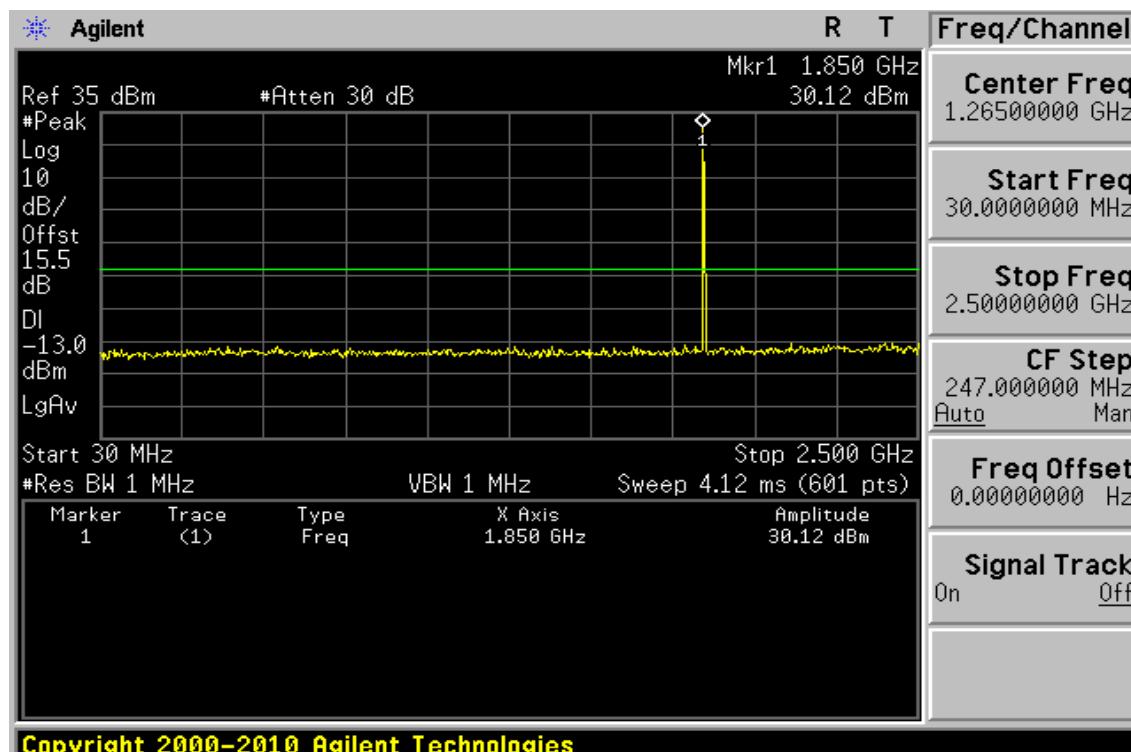


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Figure 9-6: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest

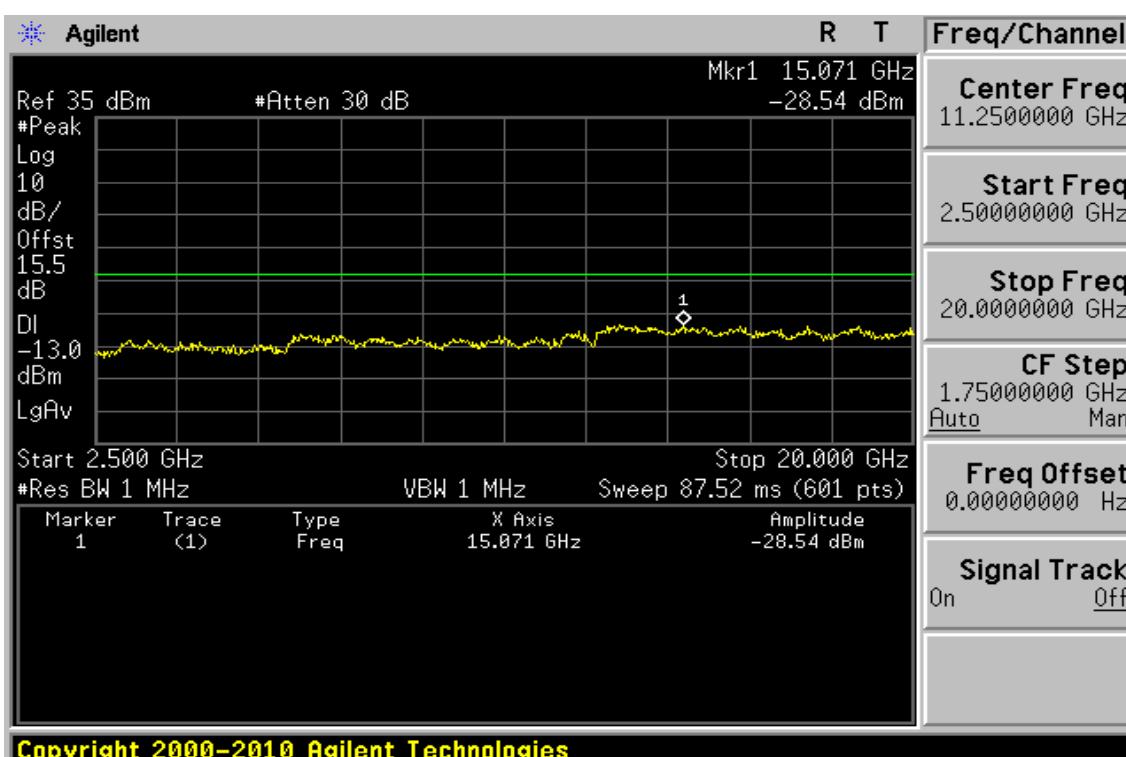
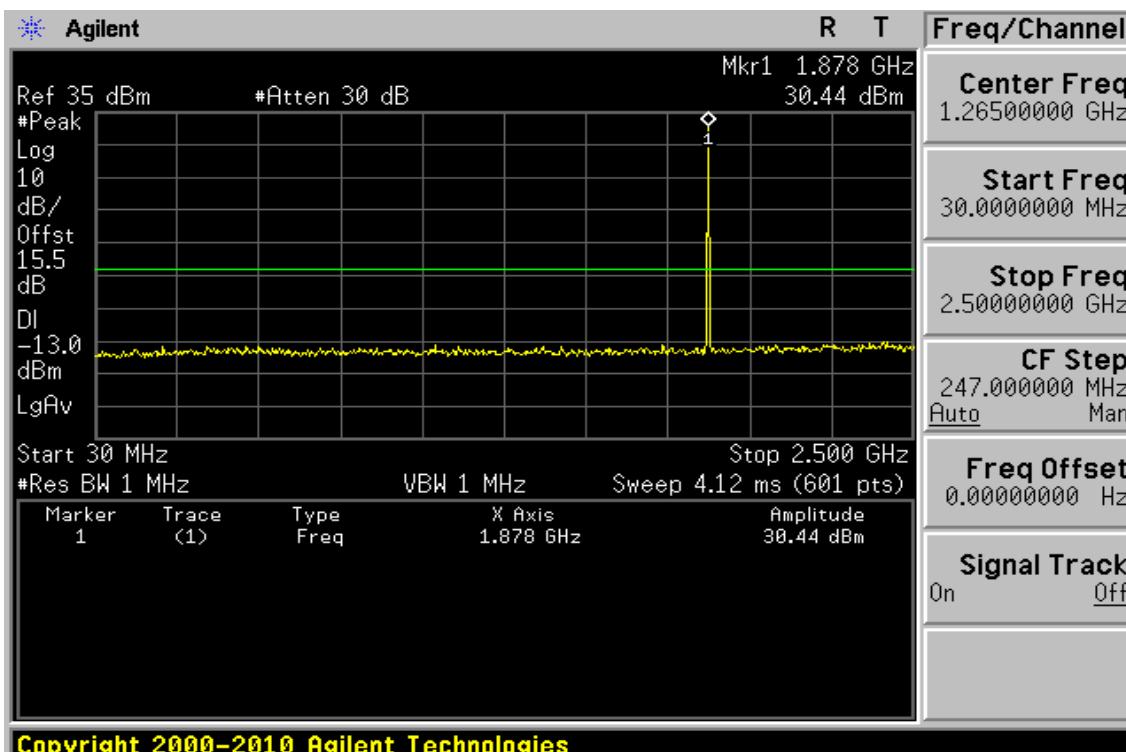


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Figure 9-7: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid

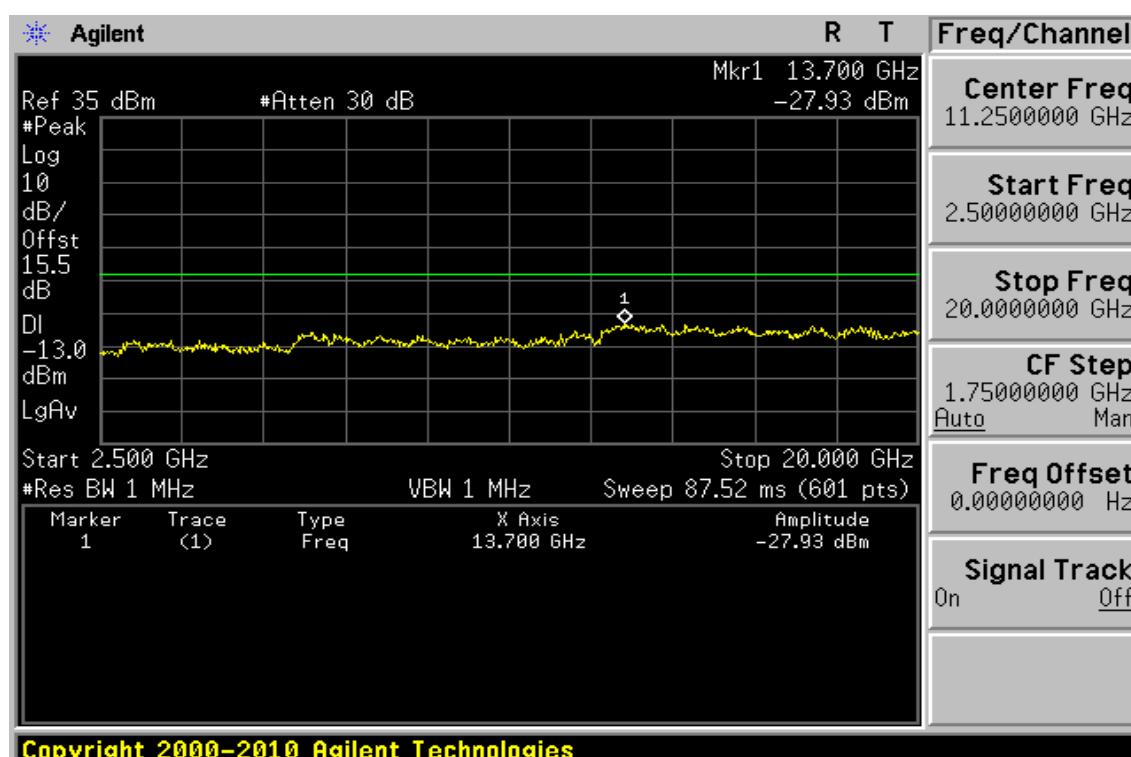
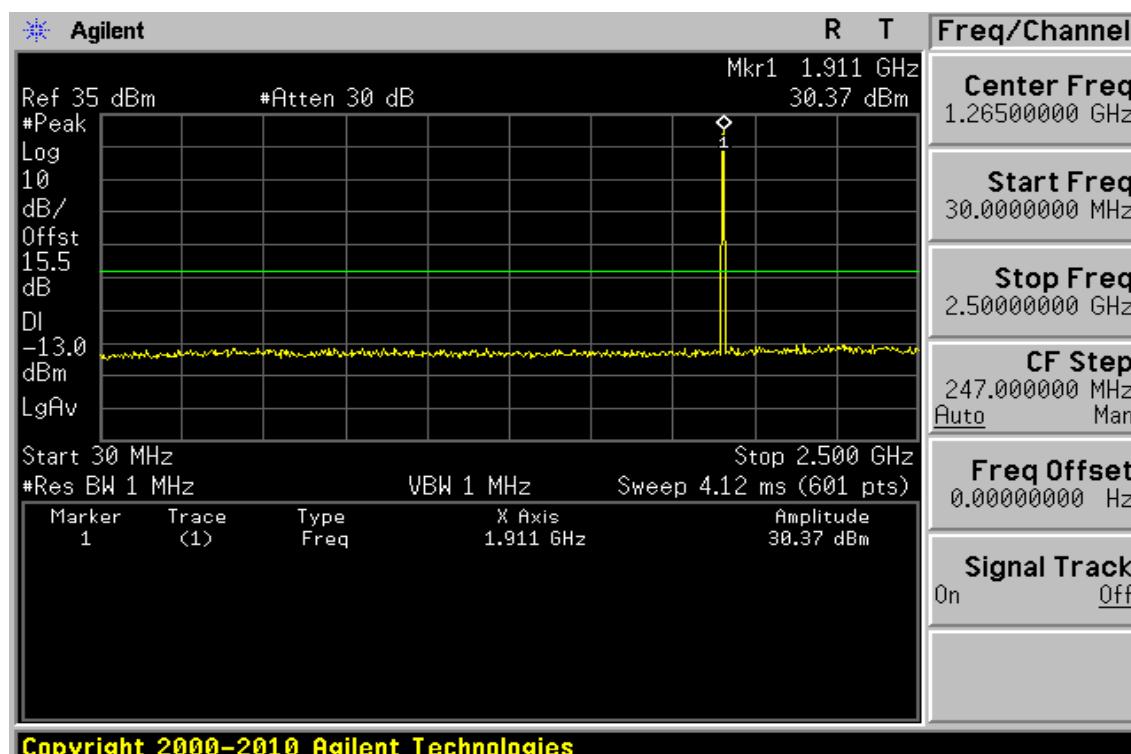


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Figure 9-8: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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

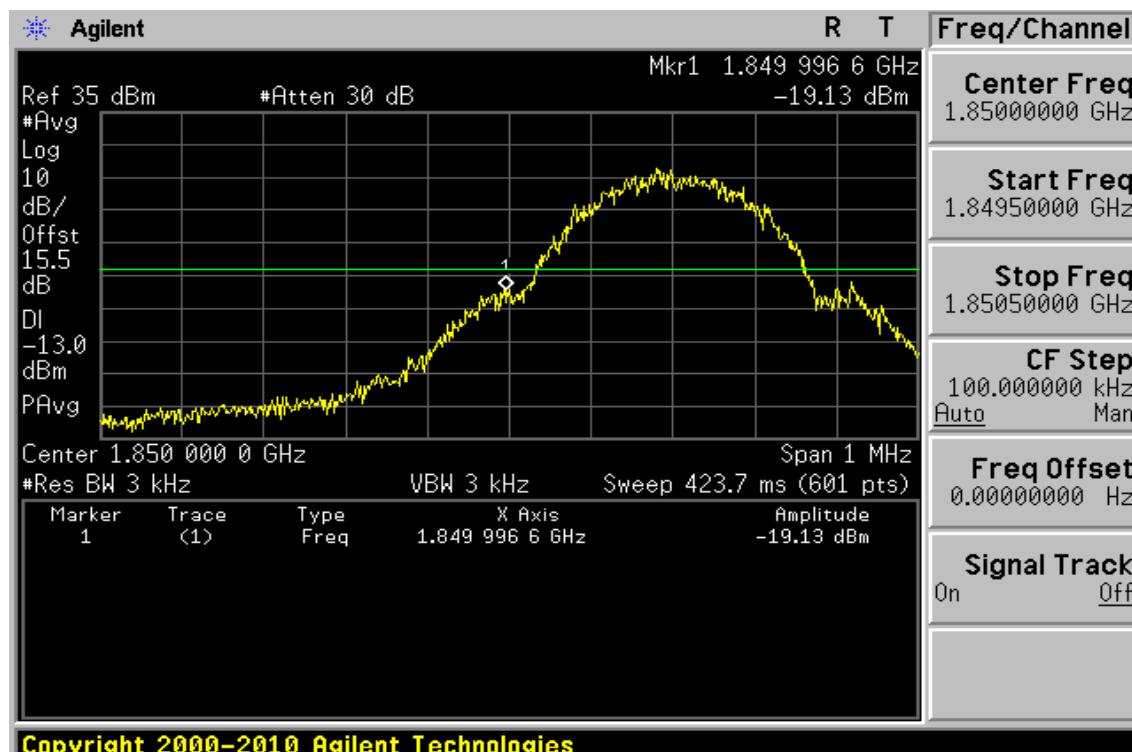
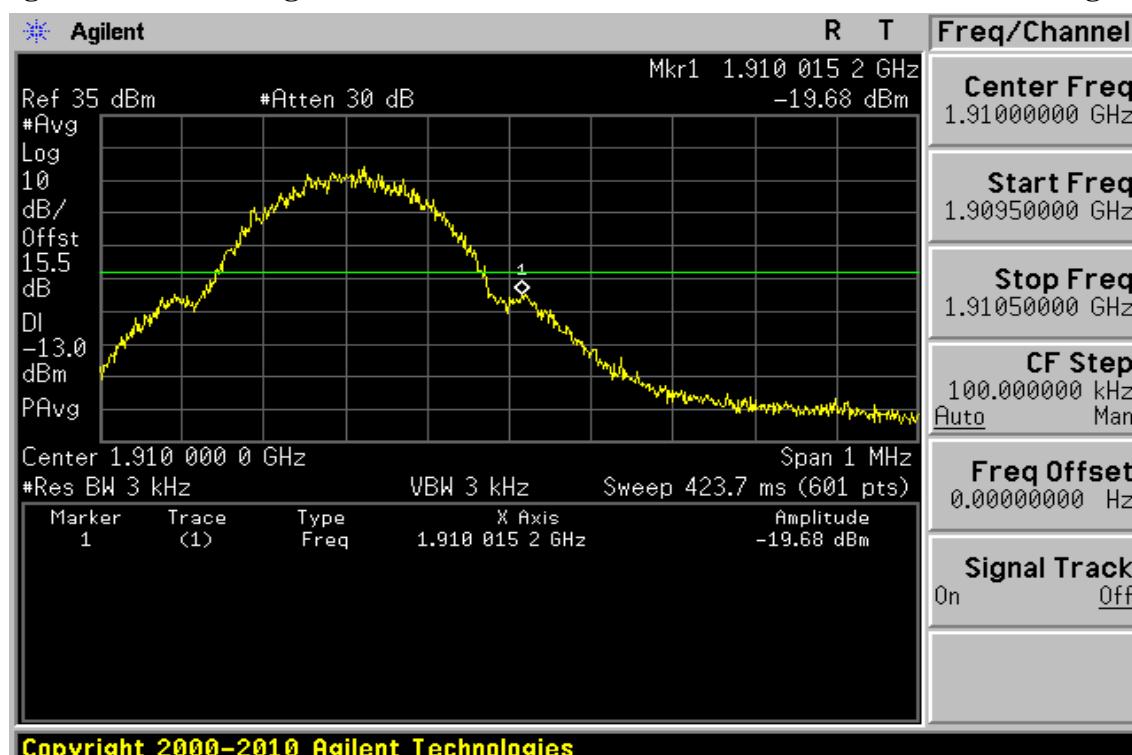


Figure 9-10: Band edge emission at antenna terminals – GPRS 1900 Channel Highest

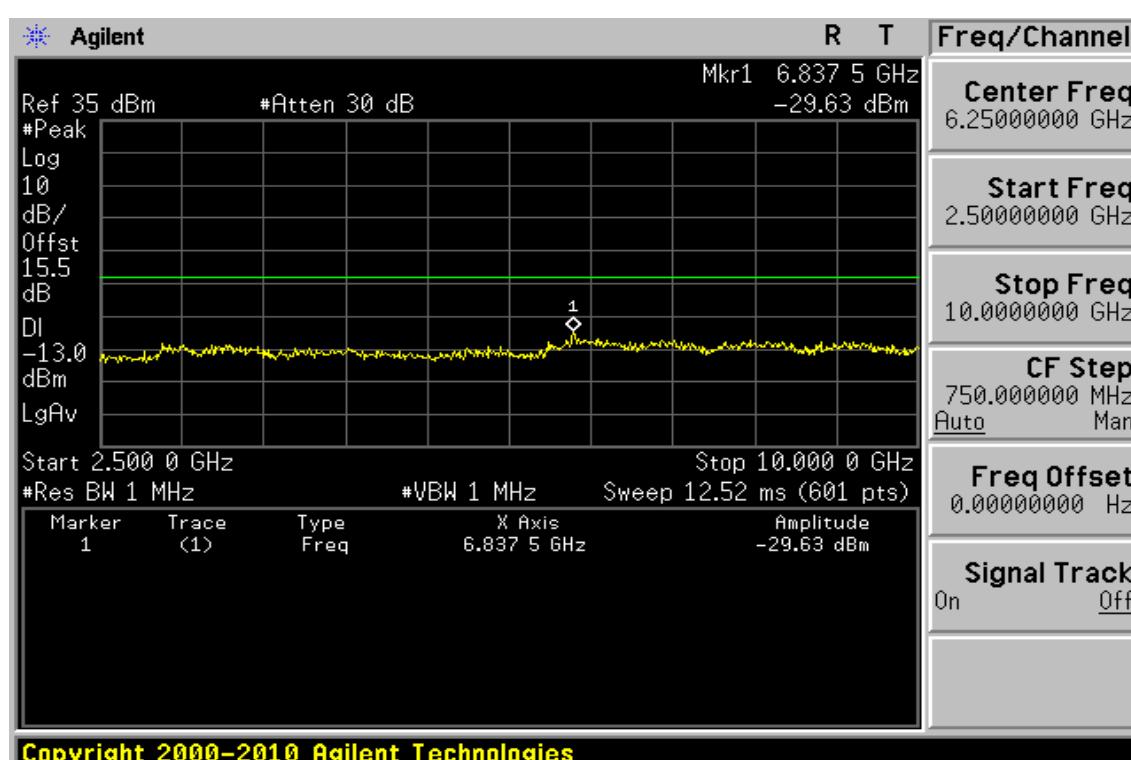
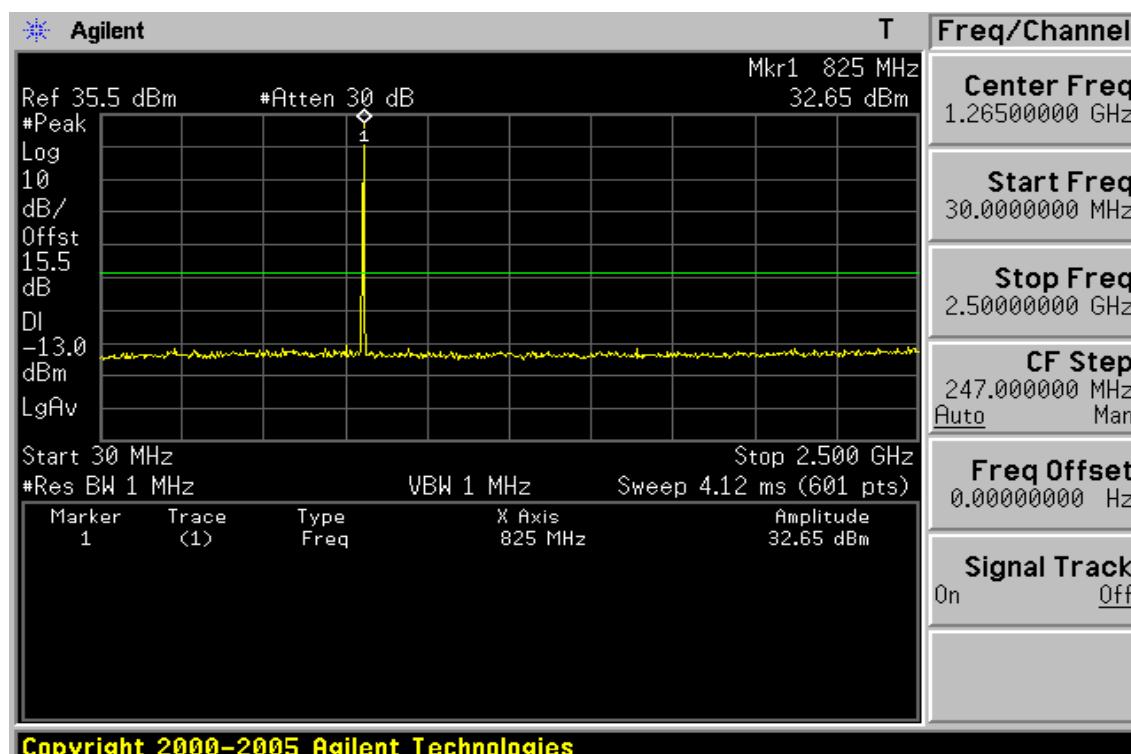


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Figure 9-11: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest

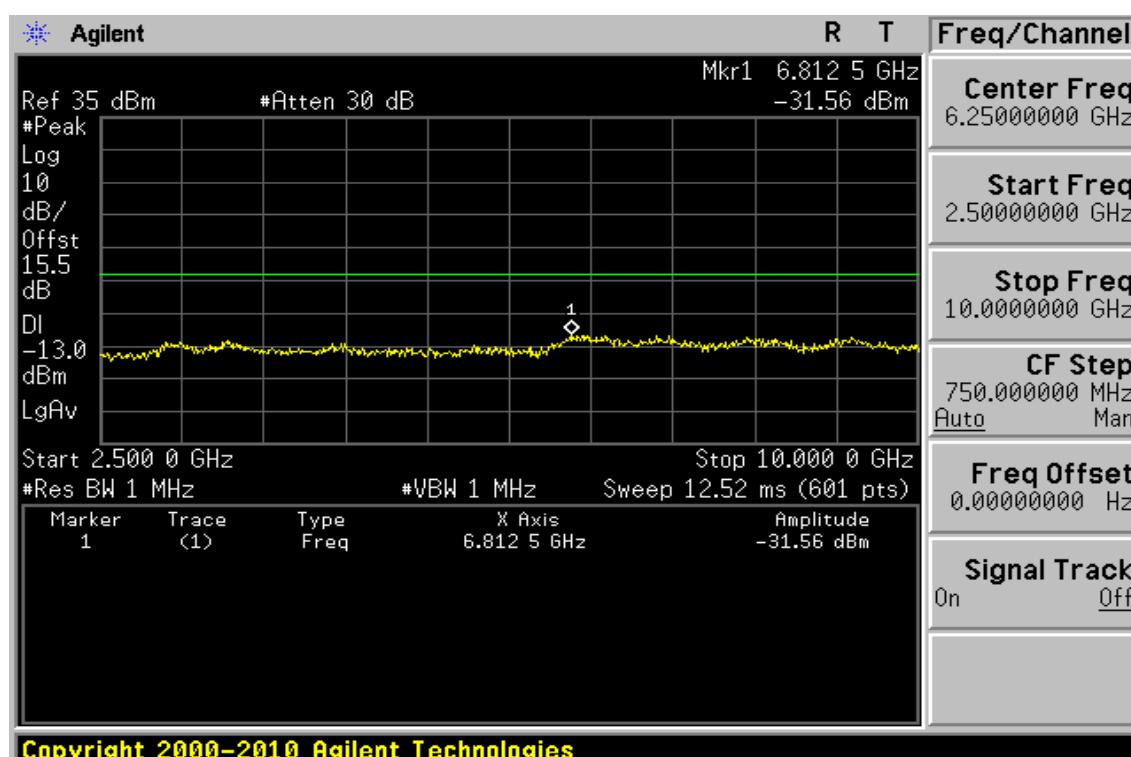
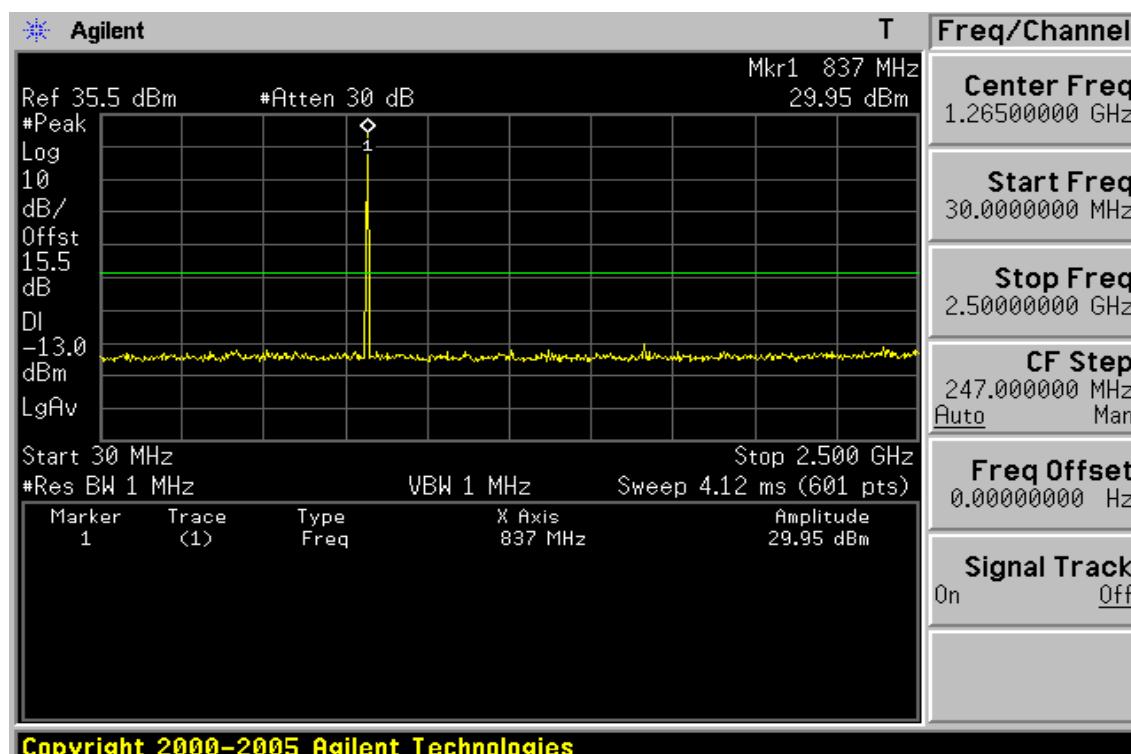


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Figure 9-12: Out of Band emission at antenna terminals – EDGE 850 Channel Mid

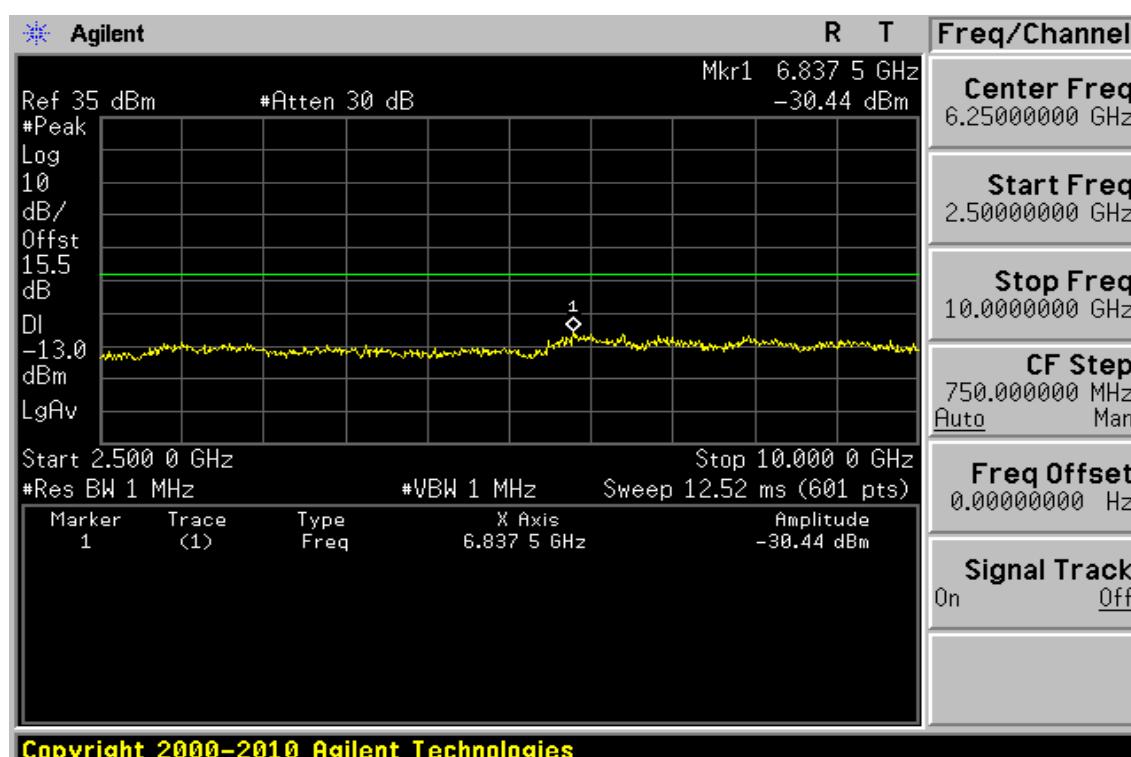
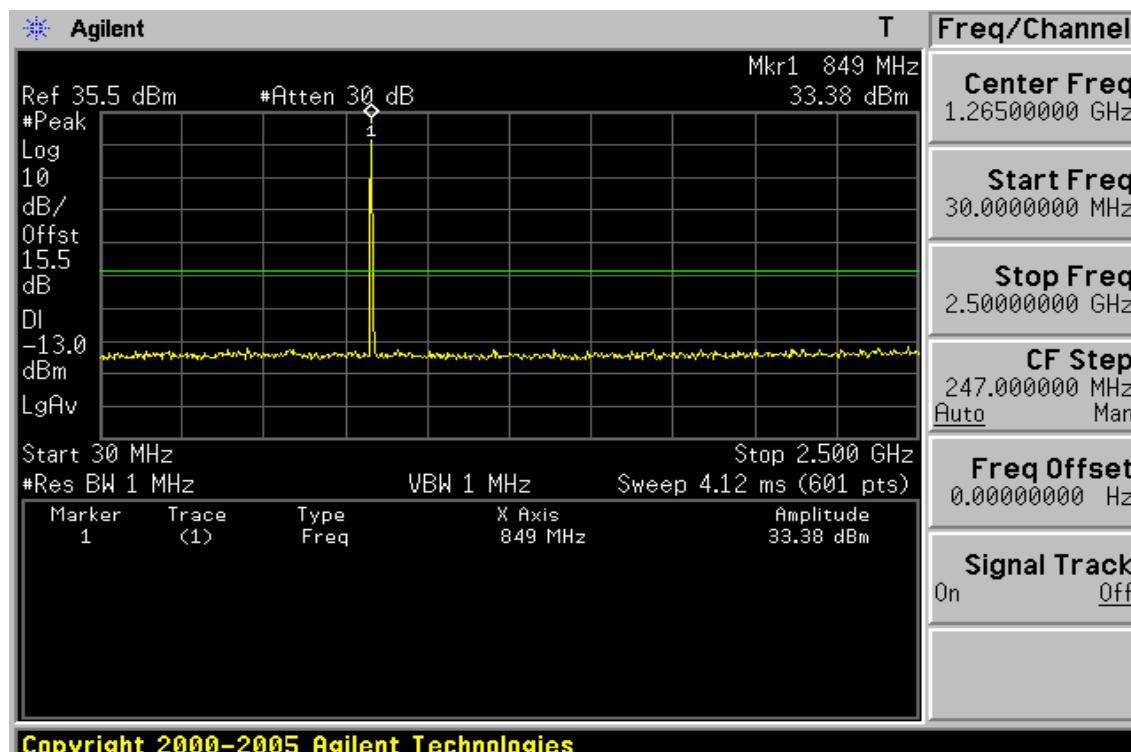


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Figure 9-13: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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

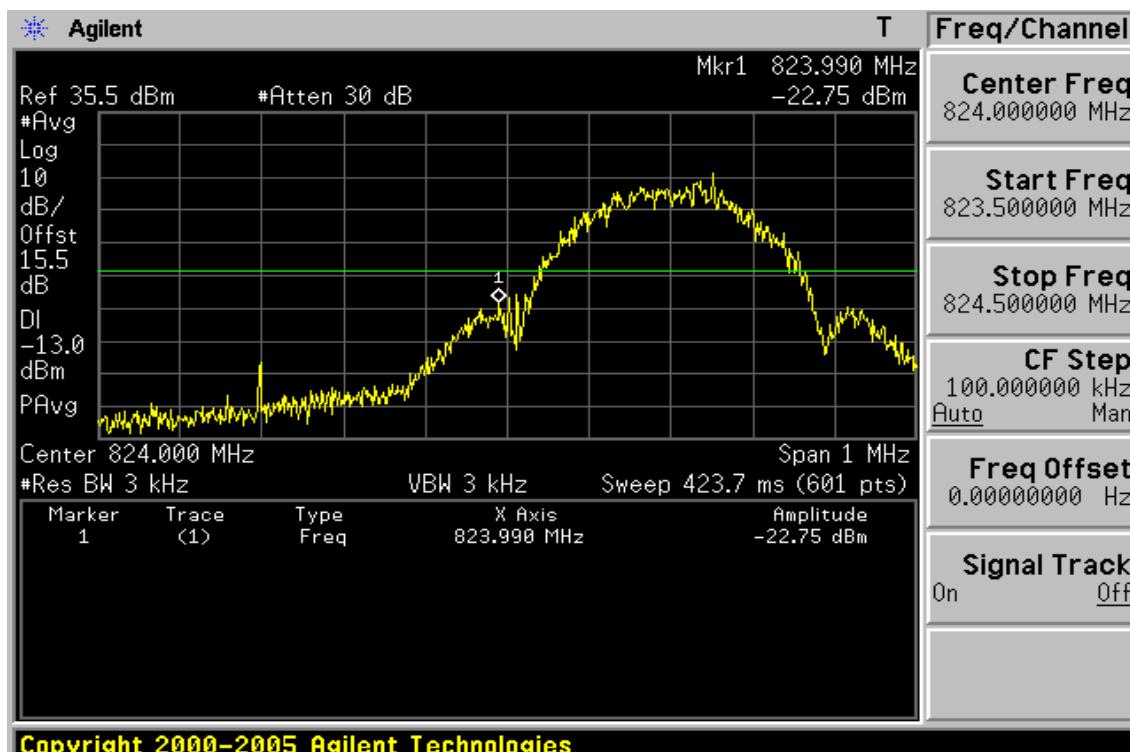
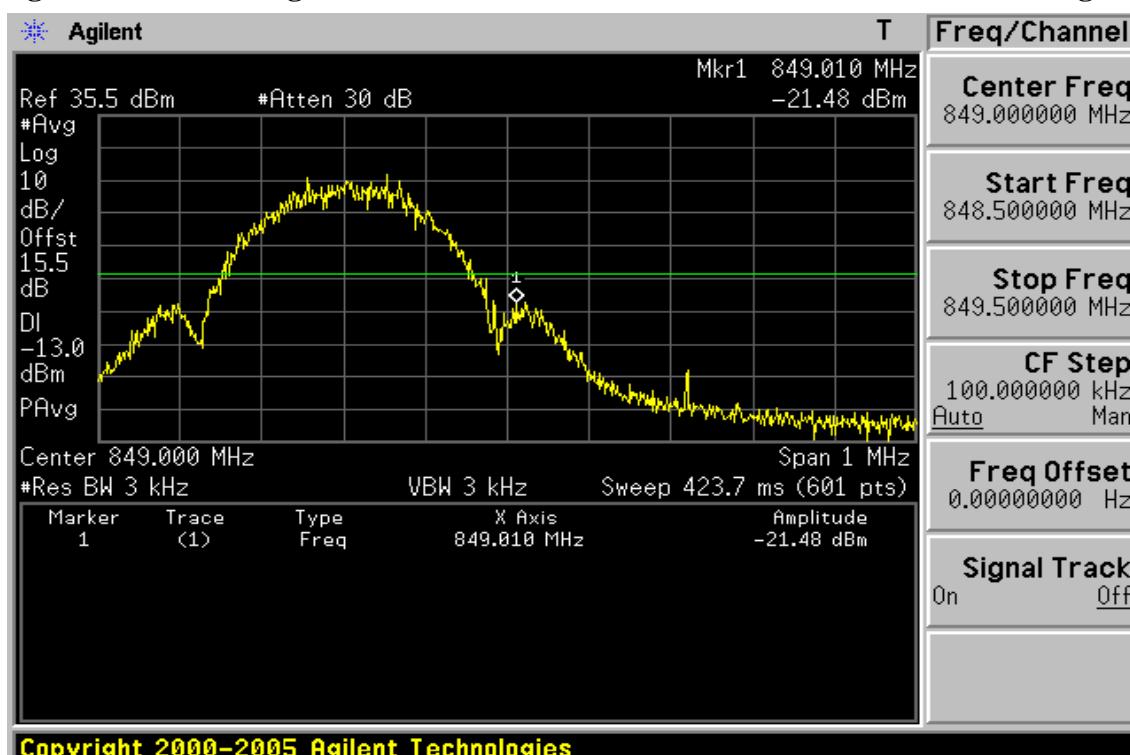


Figure 9-15: Band edge emission at antenna terminals – EDGE 850 Channel Highest

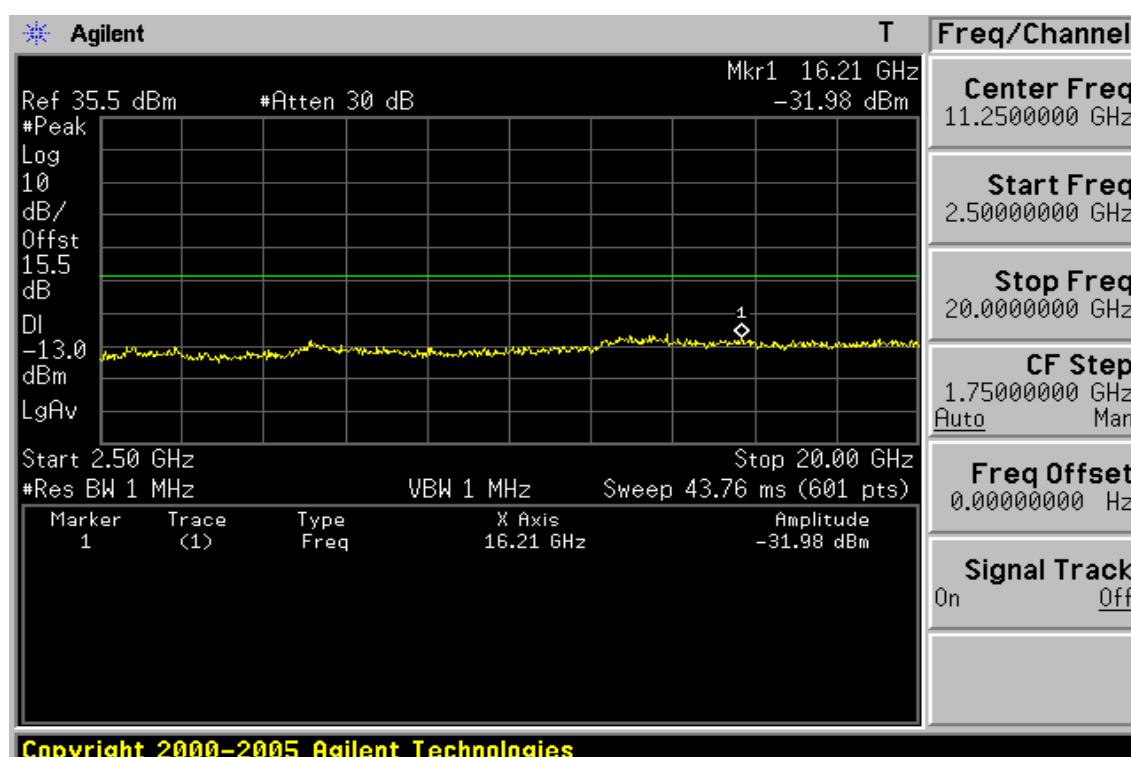
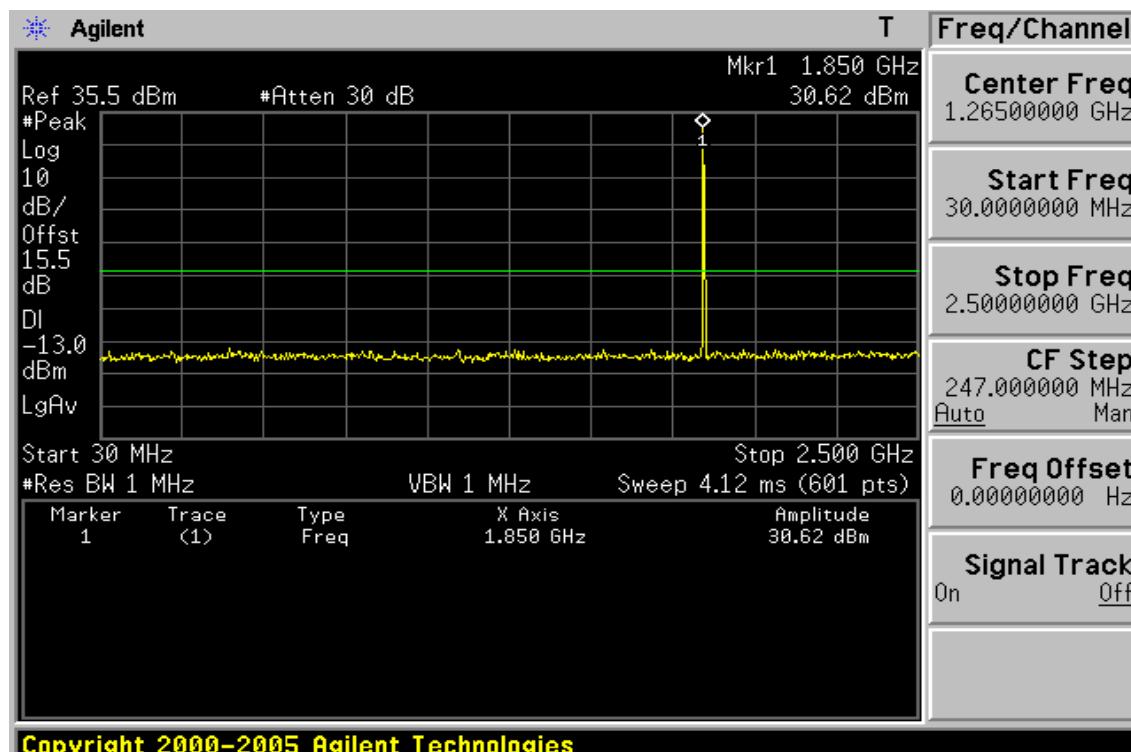


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Figure 9-16: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest

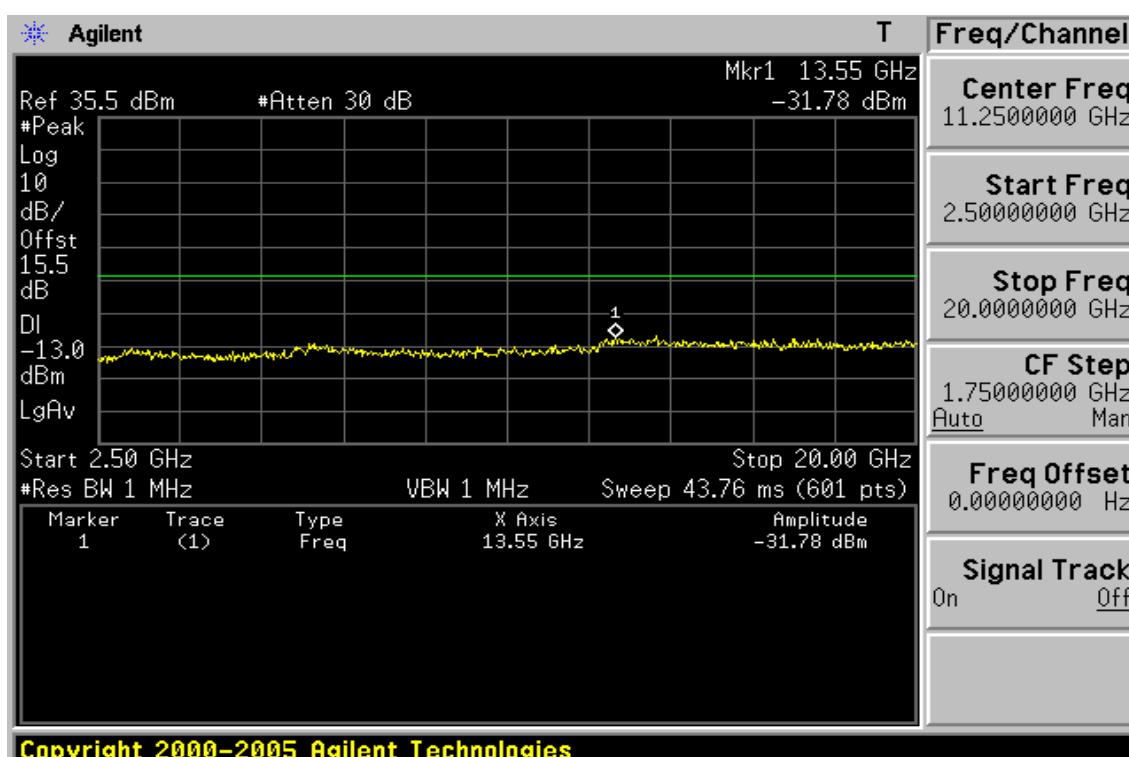
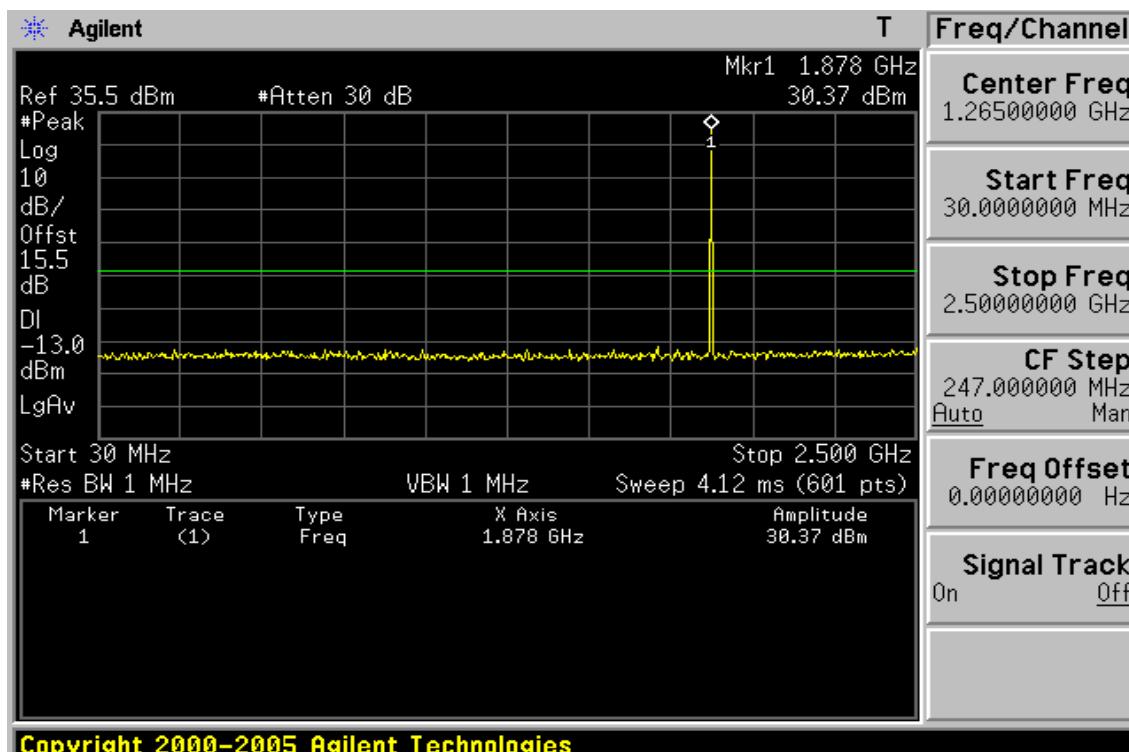


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Figure 9-17: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid

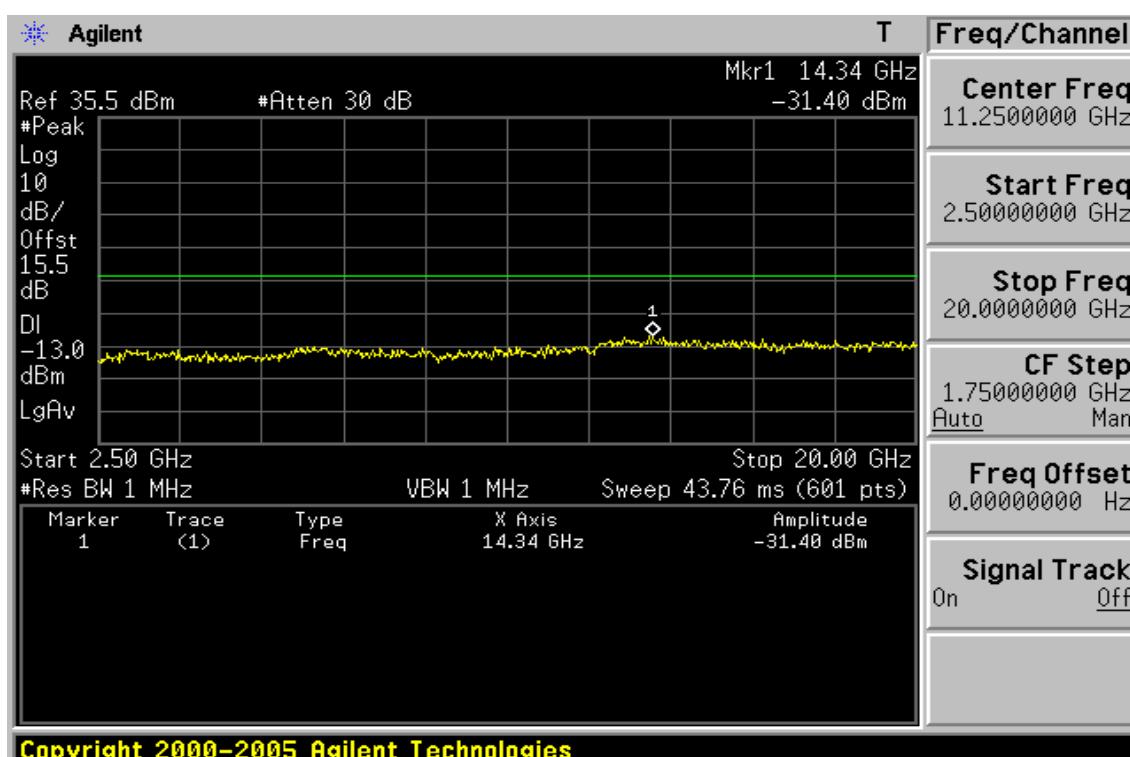
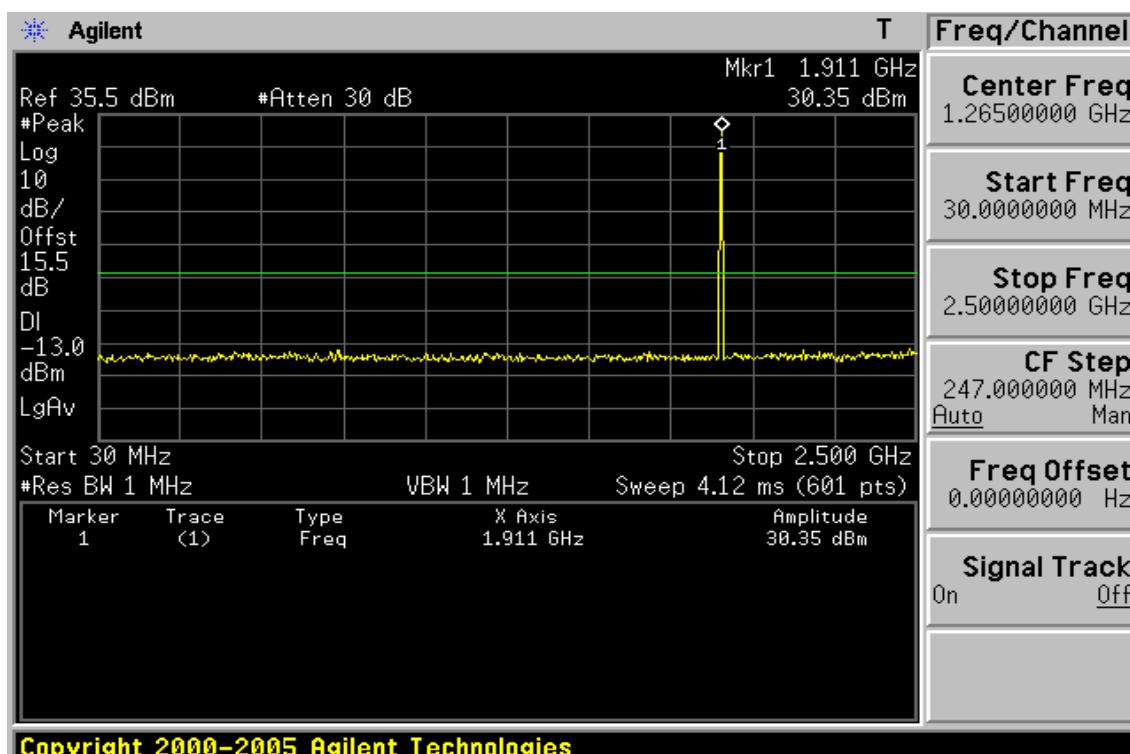


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Figure 9-18: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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

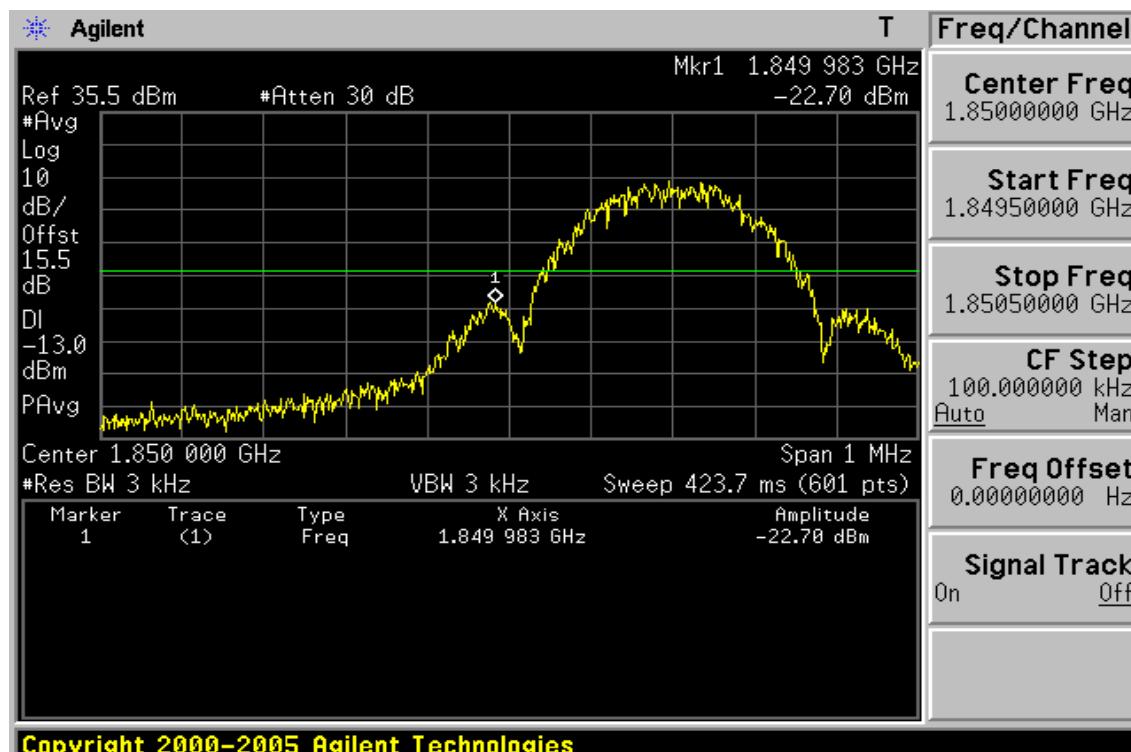
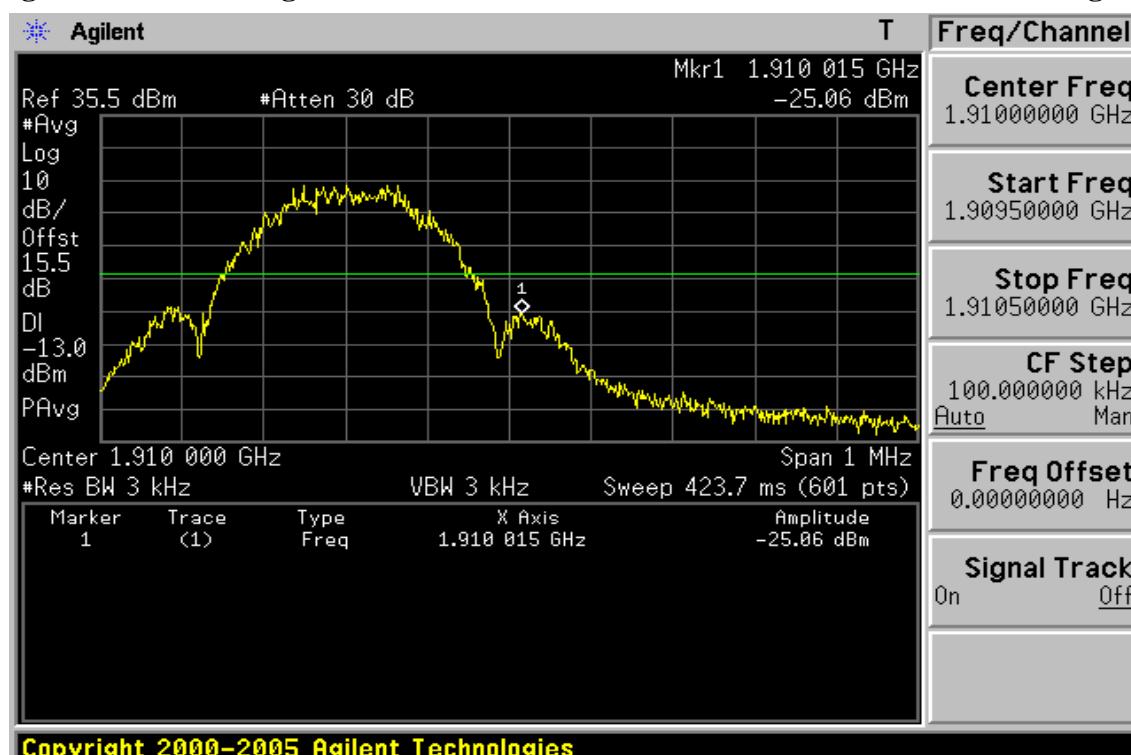


Figure 9-20: Band edge emission at antenna terminals – EDGE 1900 Channel Highest

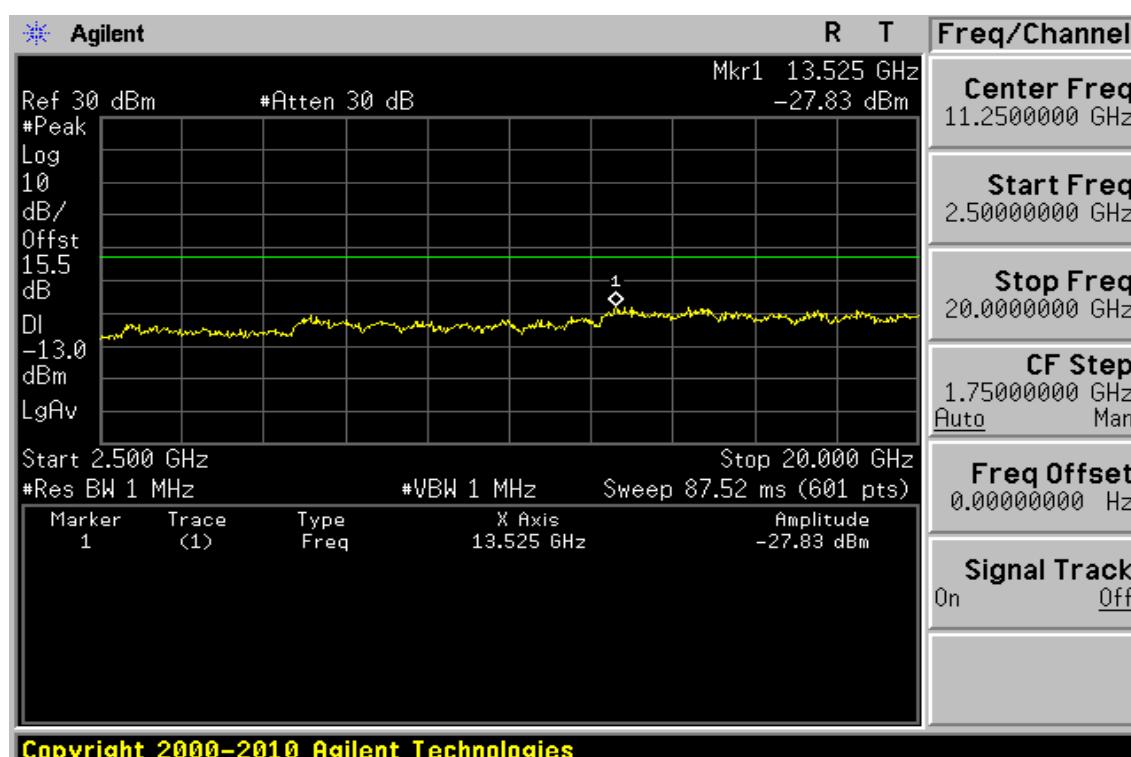
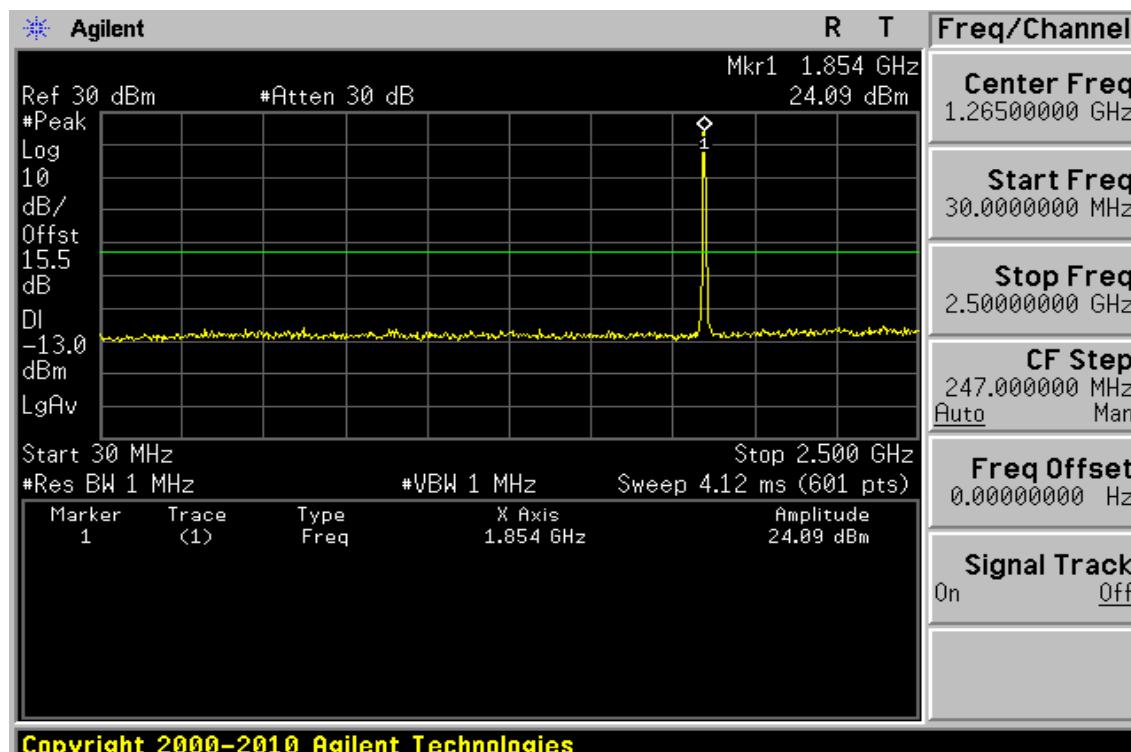


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Figure 9-21: Out of Band emission at antenna terminals – WCDMA II Channel Lowest

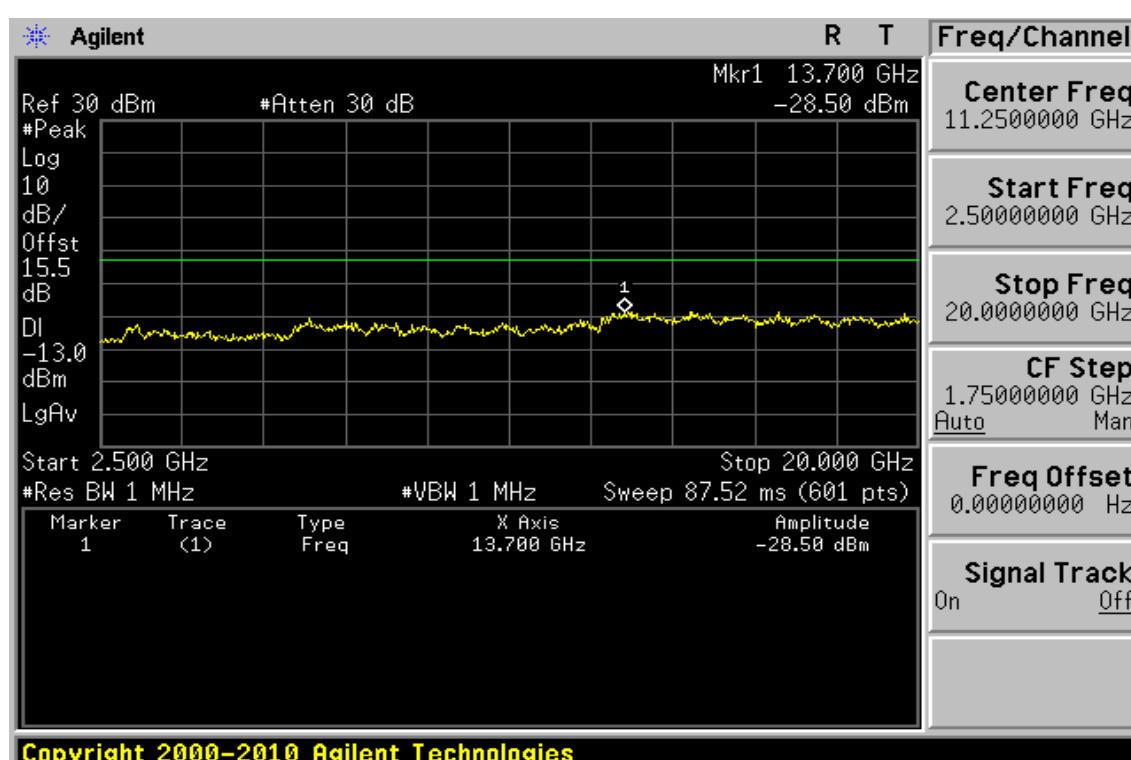
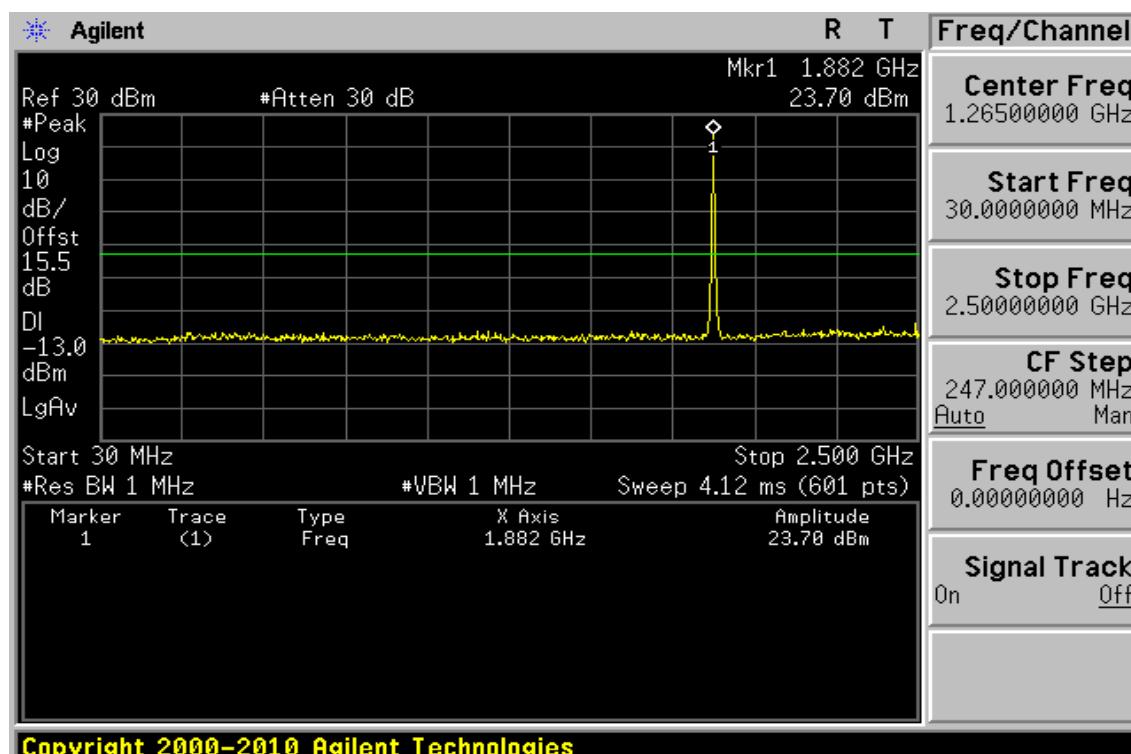


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Figure 9-22: Out of Band emission at antenna terminals – WCDMA II Channel Mid

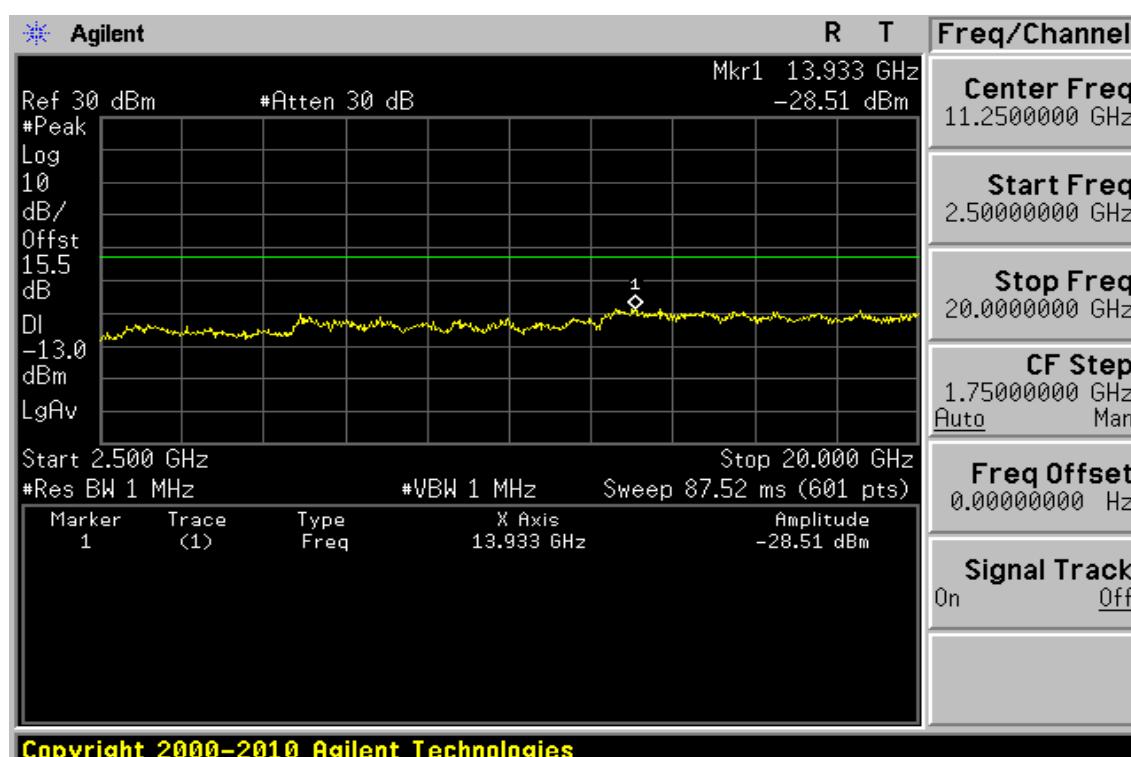
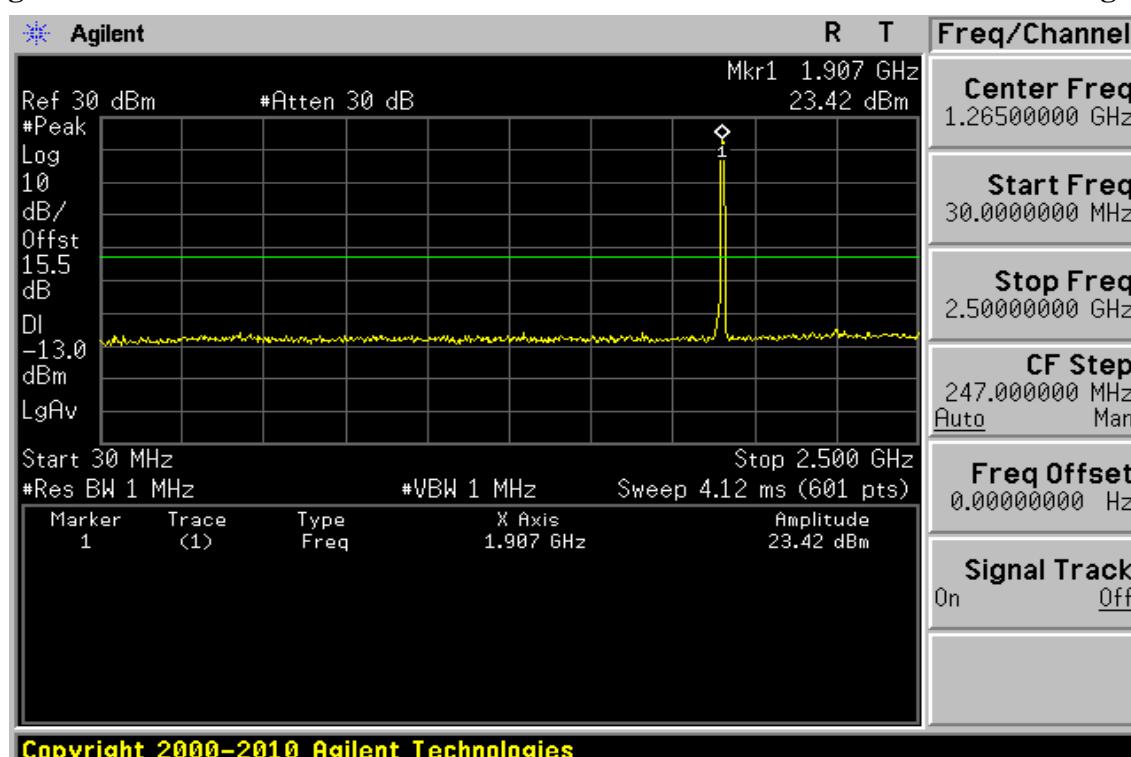


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Figure 9-23: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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

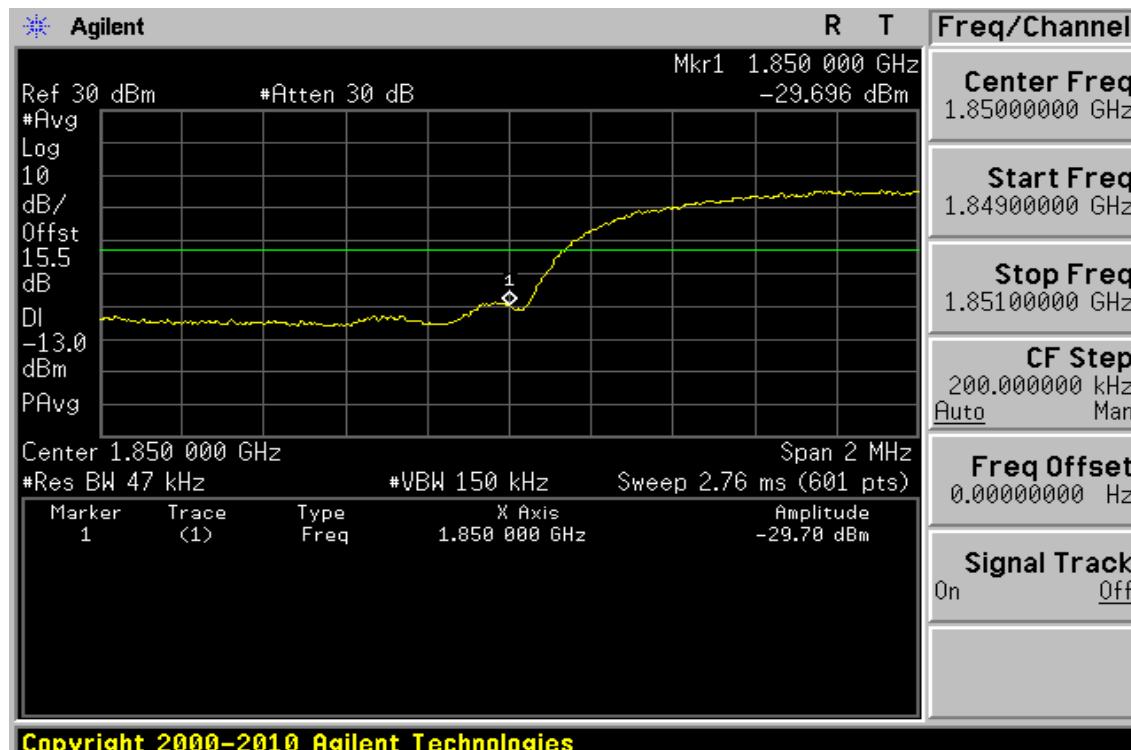
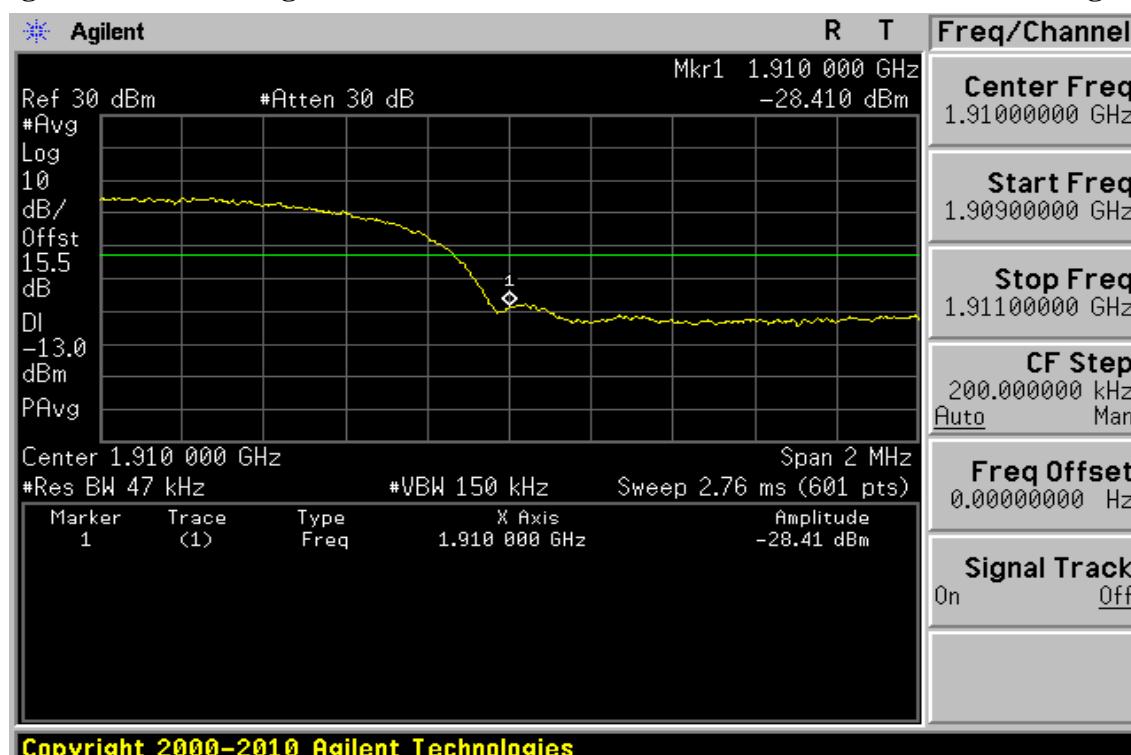


Figure 9-25: Band edge emission at antenna terminals – WCDMA II Channel Highest

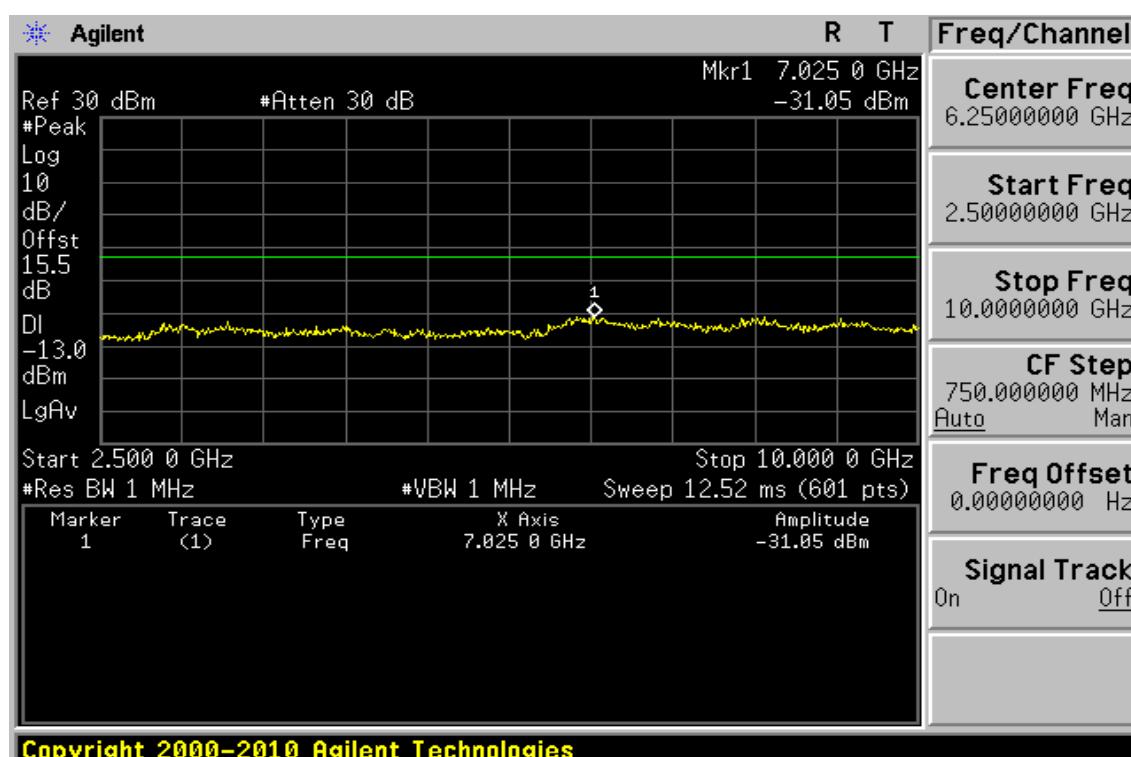
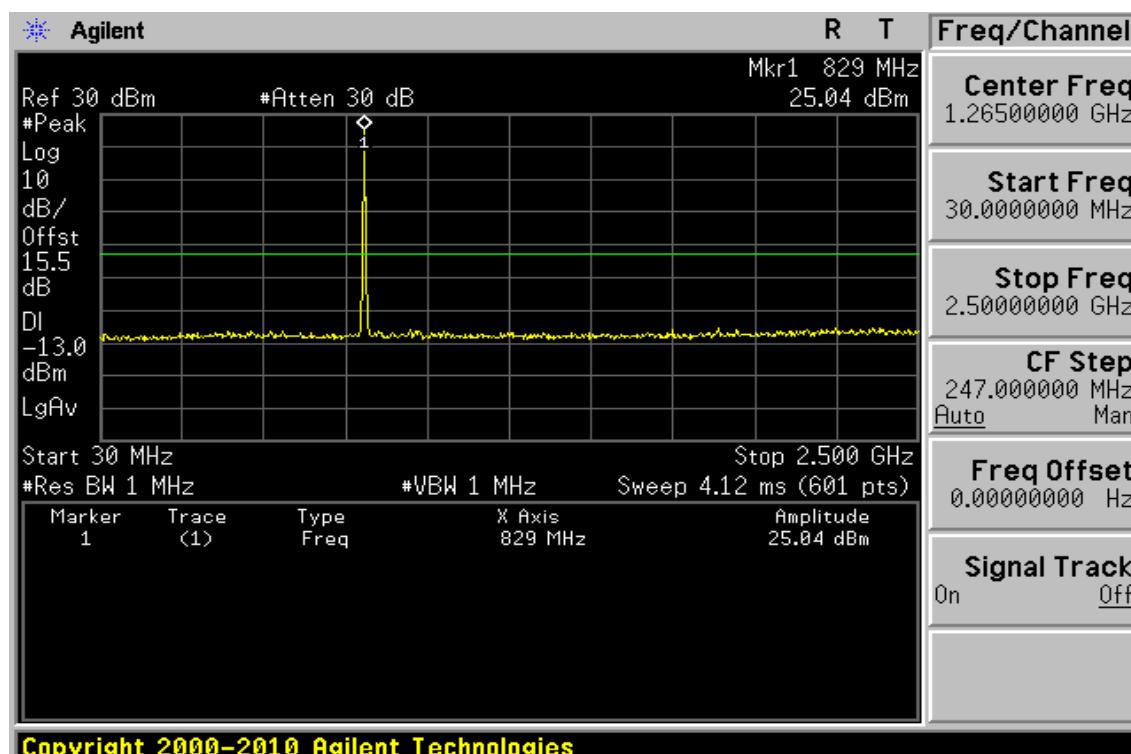


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Figure 9-26: Out of Band emission at antenna terminals – WCDMA V Channel Lowest

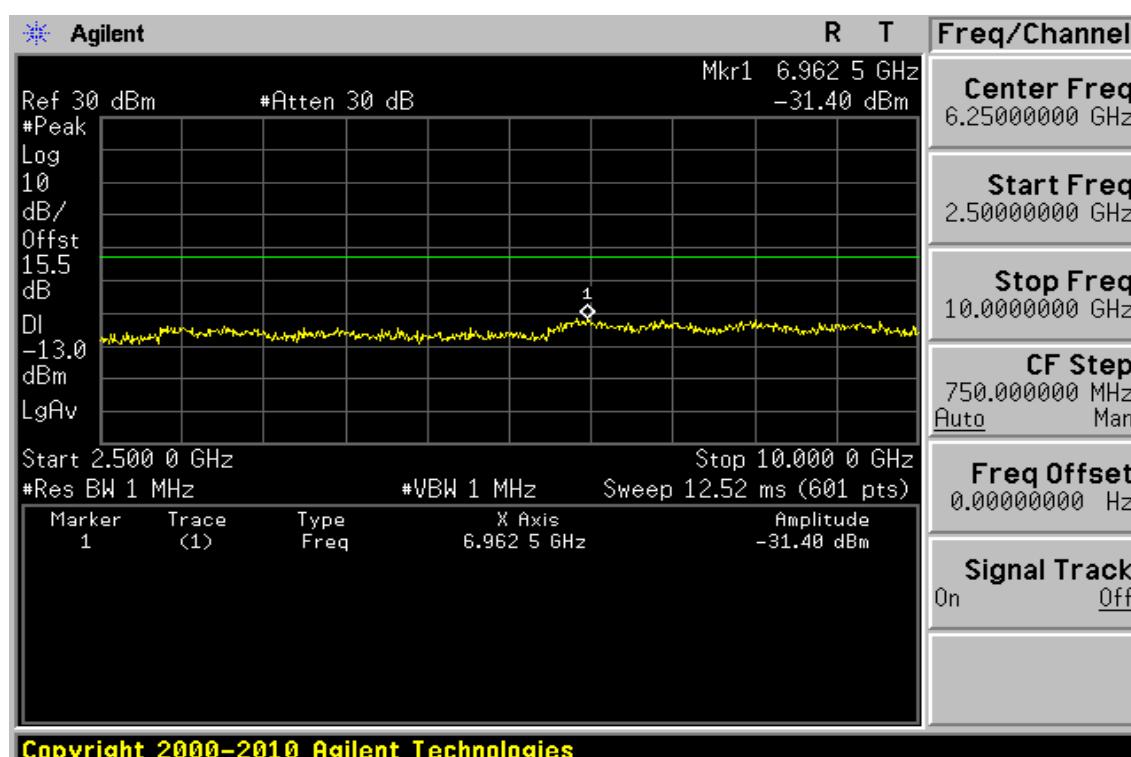
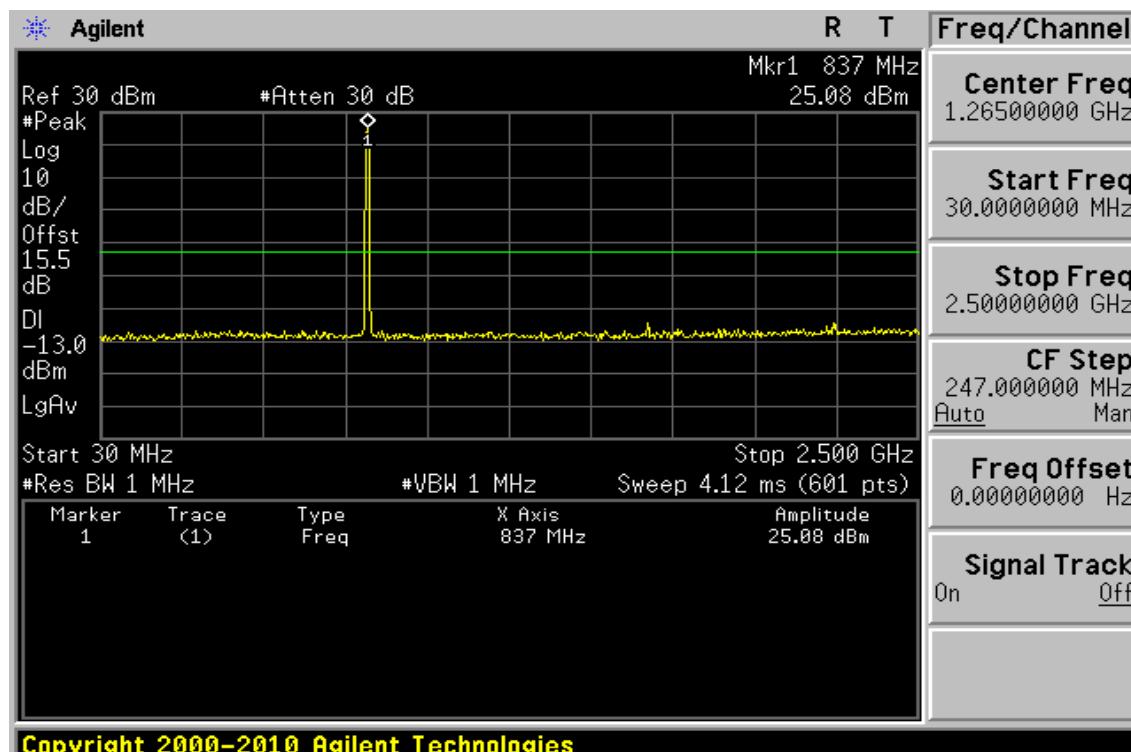


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Figure 9-27: Out of Band emission at antenna terminals – WCDMA V Channel Mid

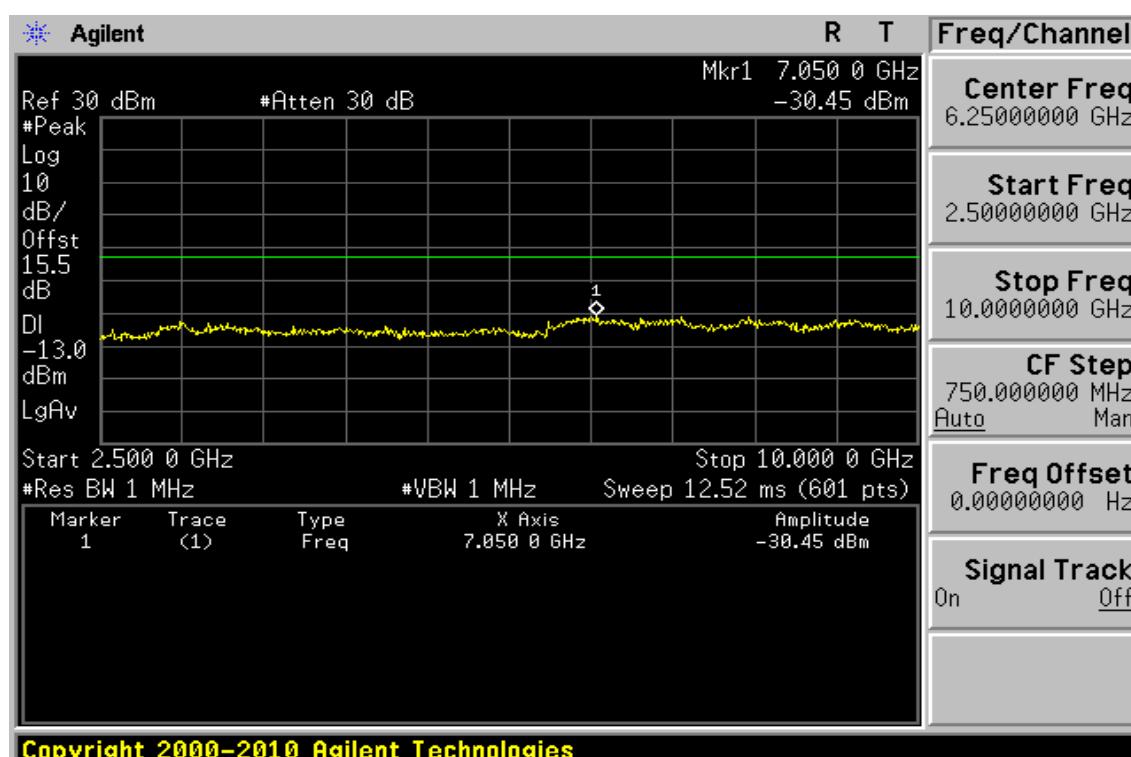
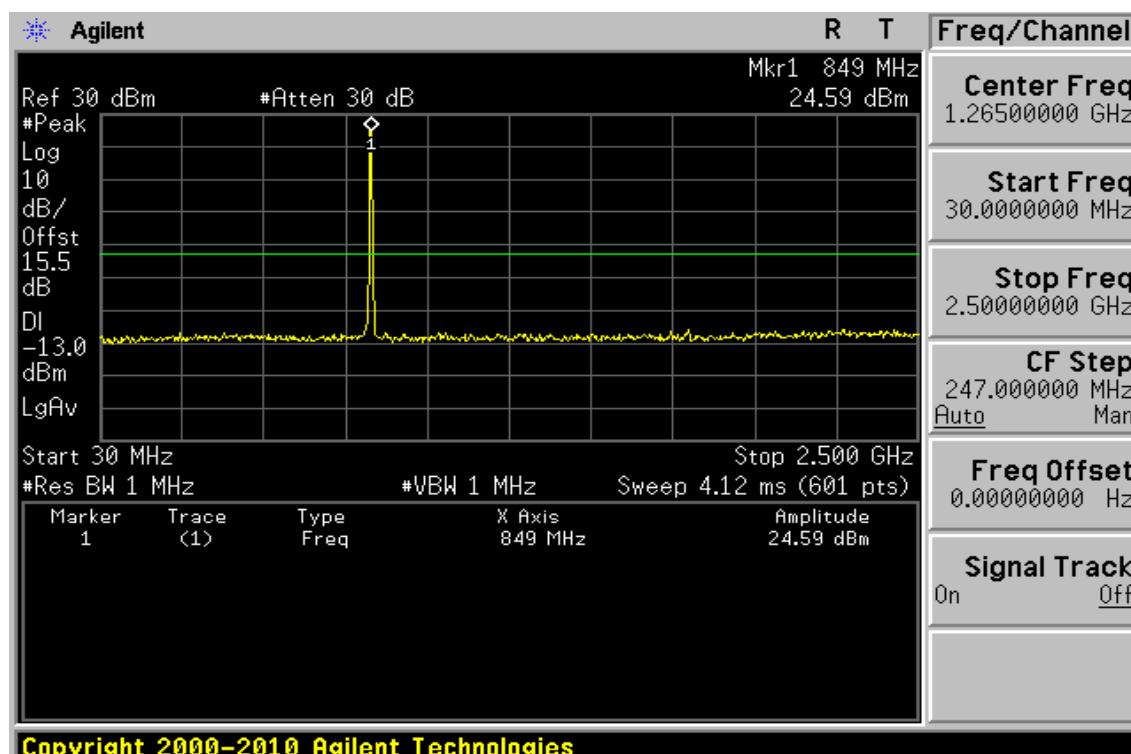


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Figure 9-28: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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Figure 9-29: Band edge emission at antenna terminals – WCDMA V Channel Lowest

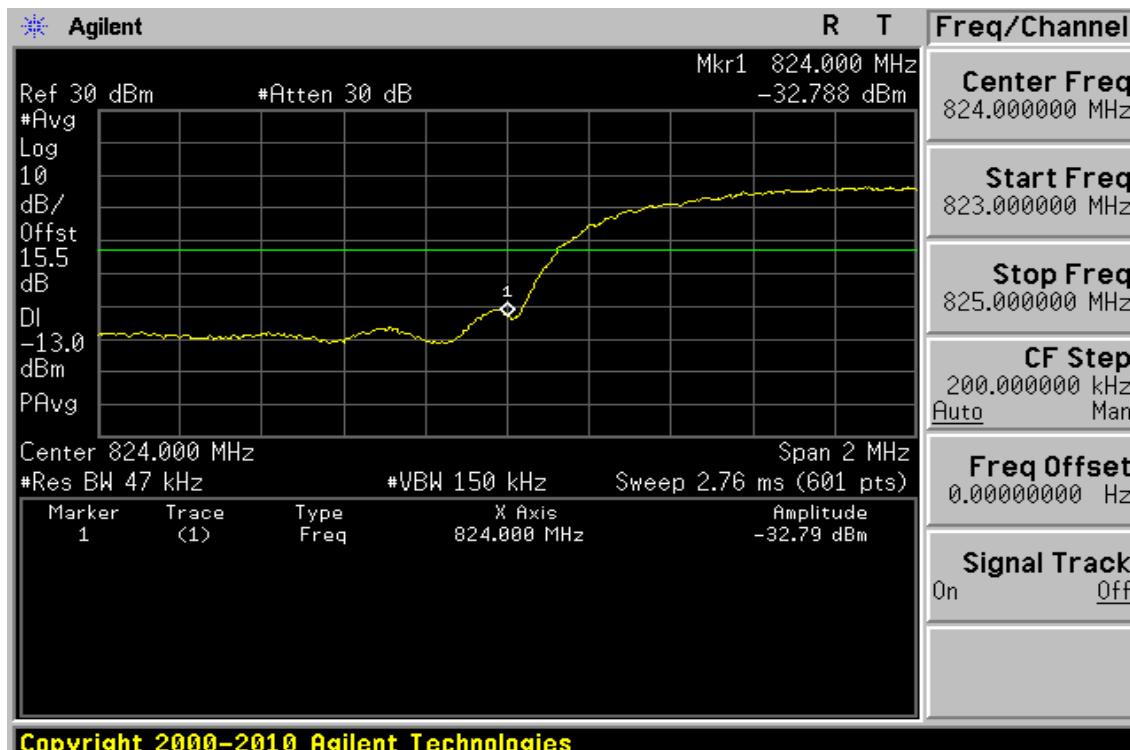
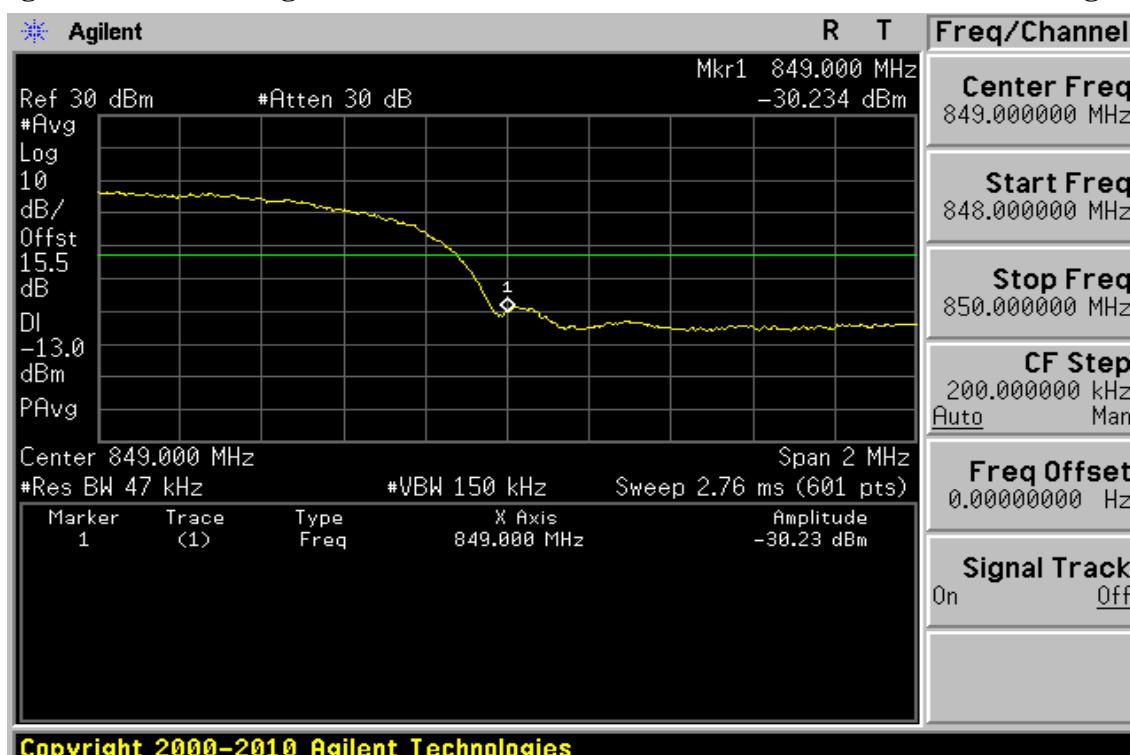


Figure 9-30: Band edge emission at antenna terminals – WCDMA V Channel Highest

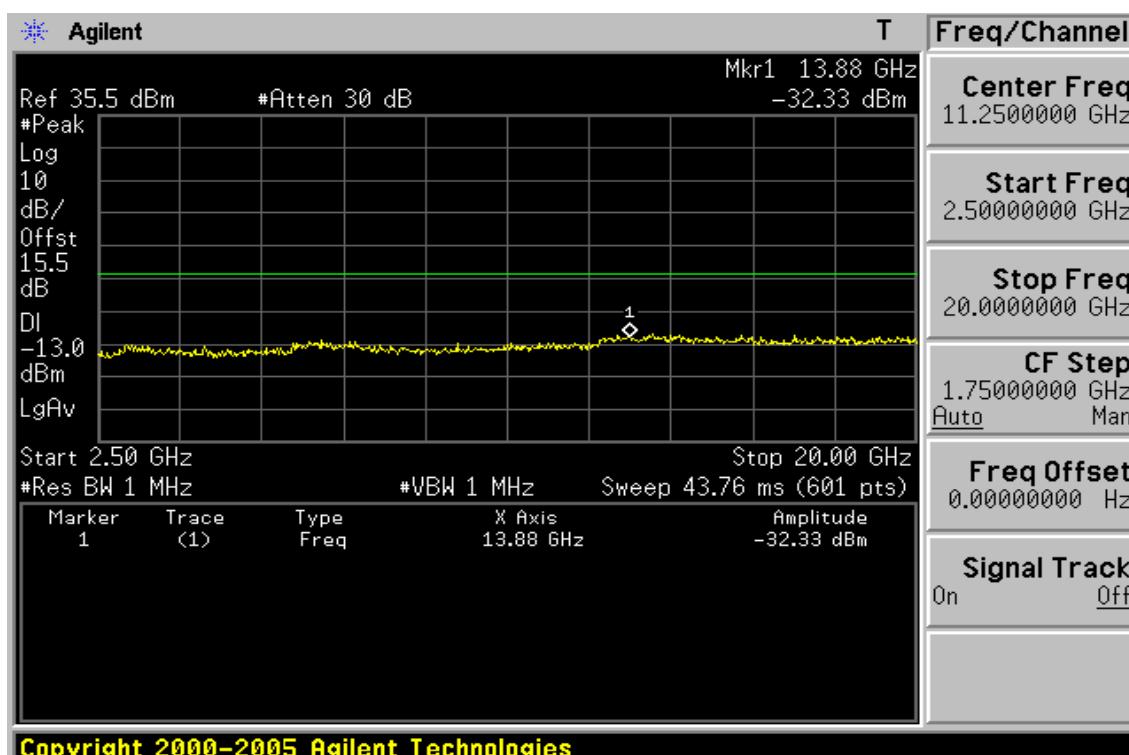
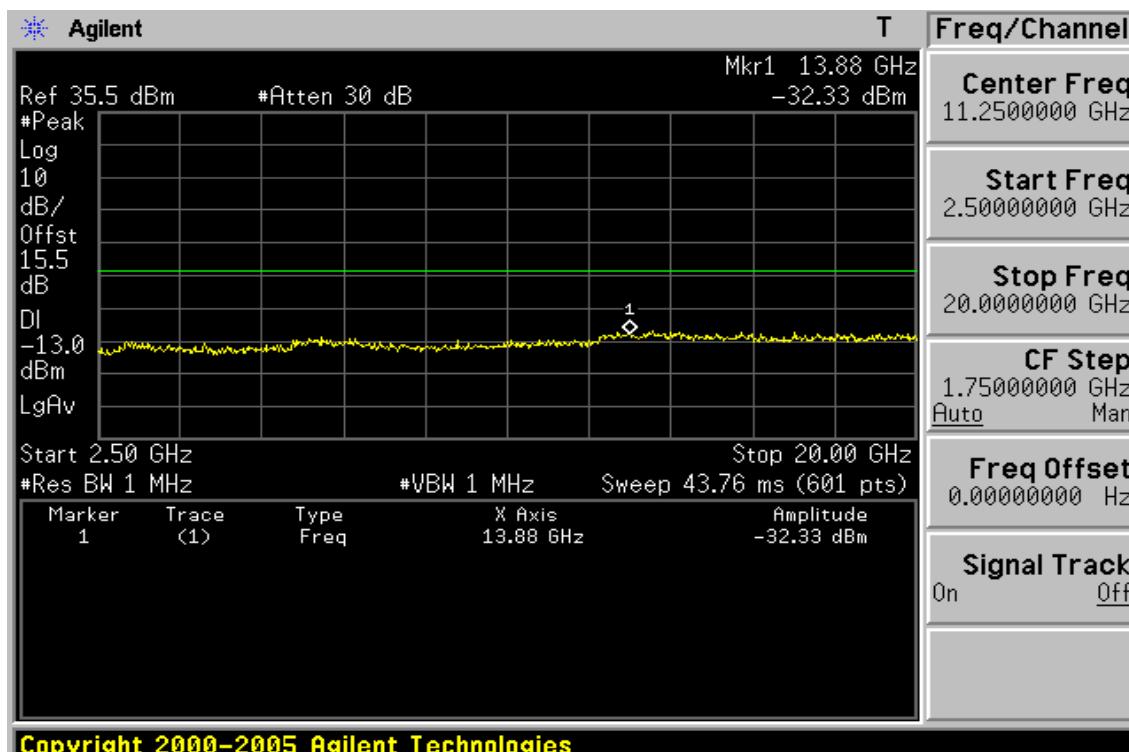


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Figure 9-31: Out of Band emission at antenna terminals – HSDPA II Channel Lowest

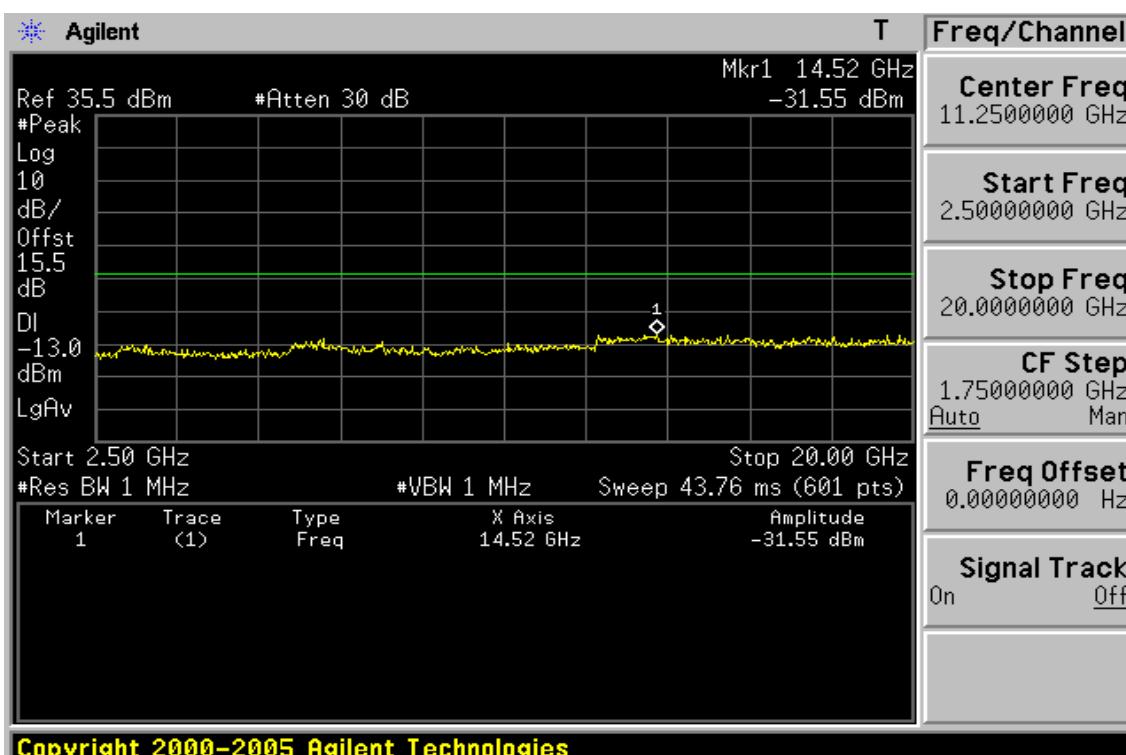
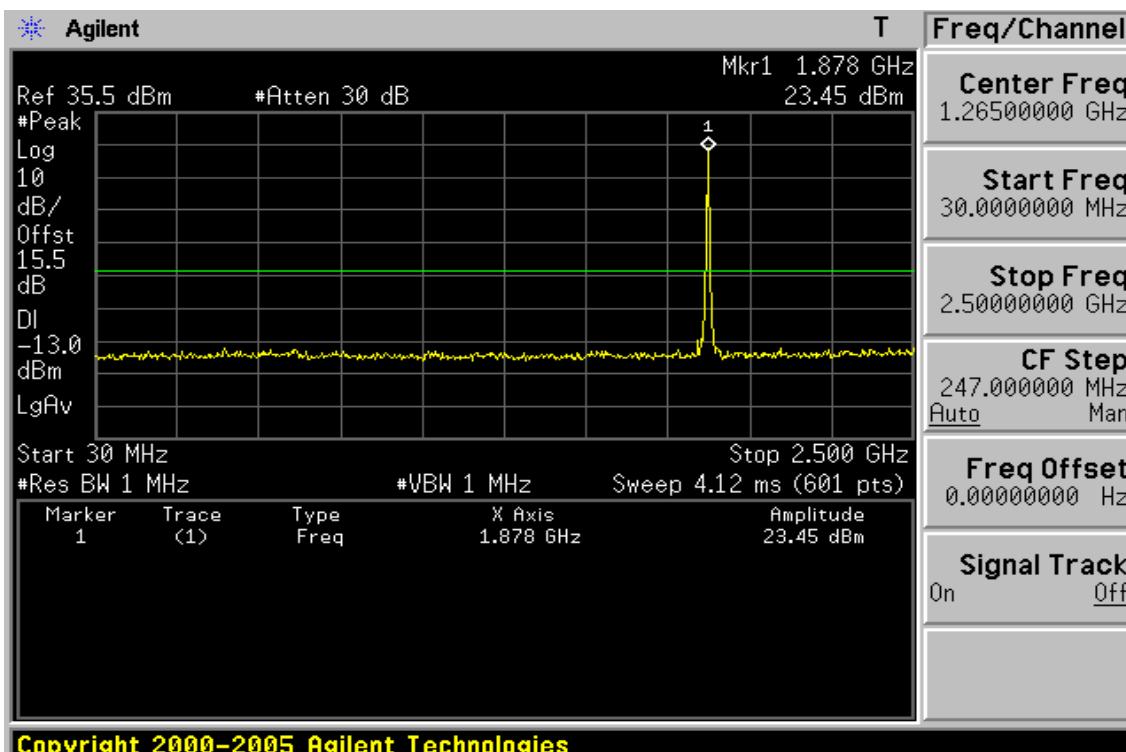


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Figure 9-32: Out of Band emission at antenna terminals – HSDPA II Channel Mid

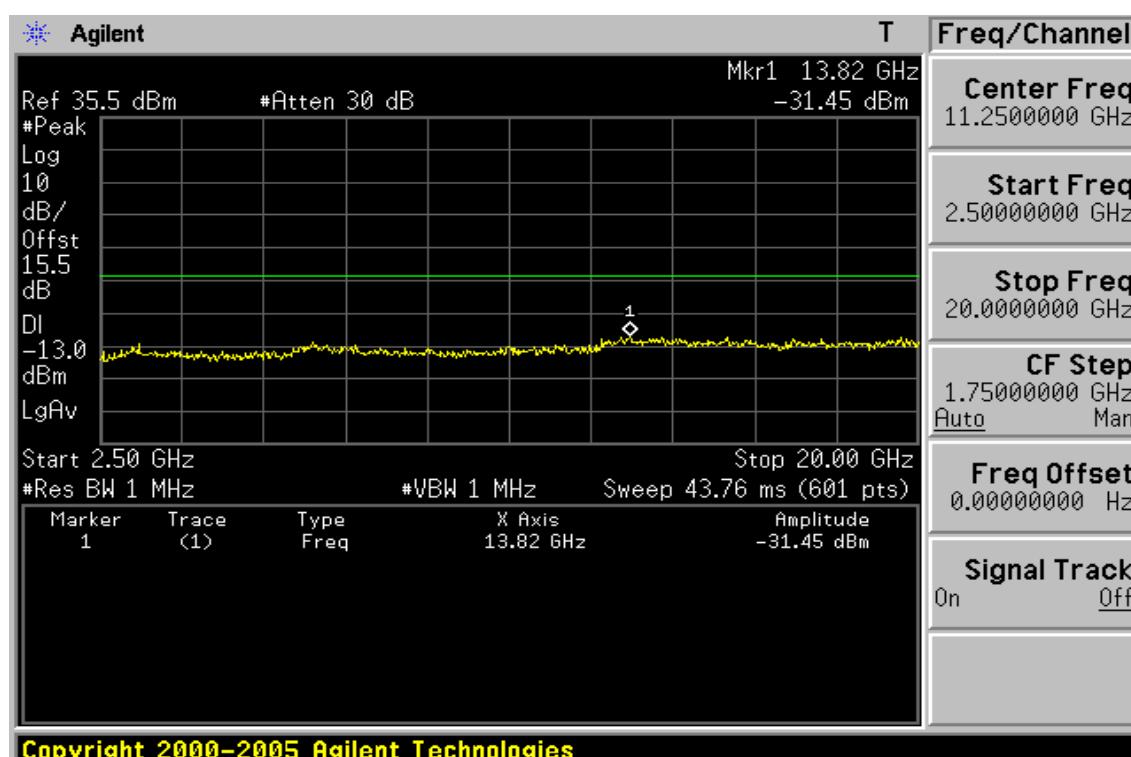
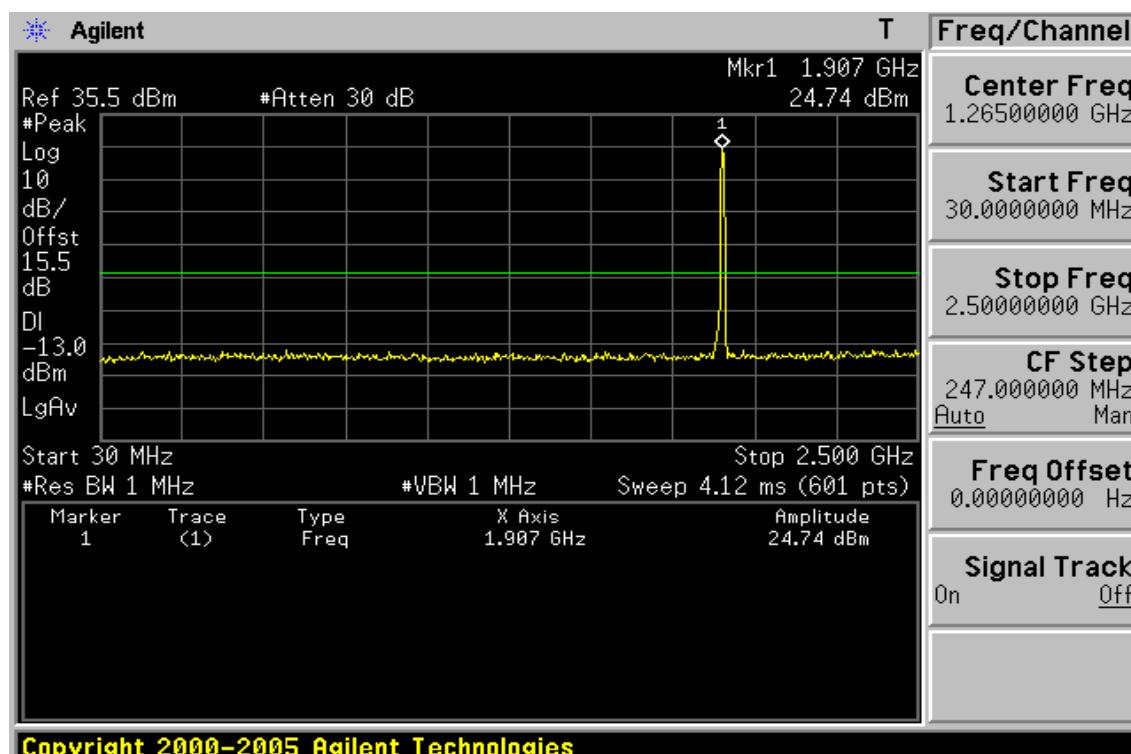


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Figure 9-33: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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

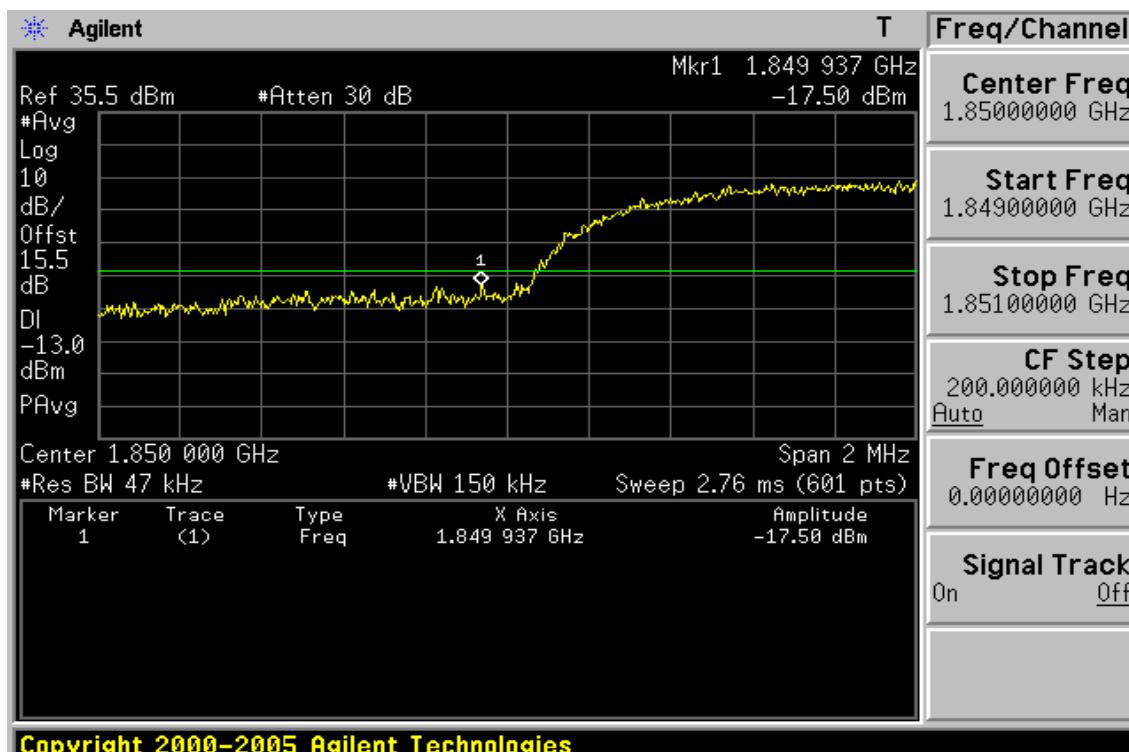
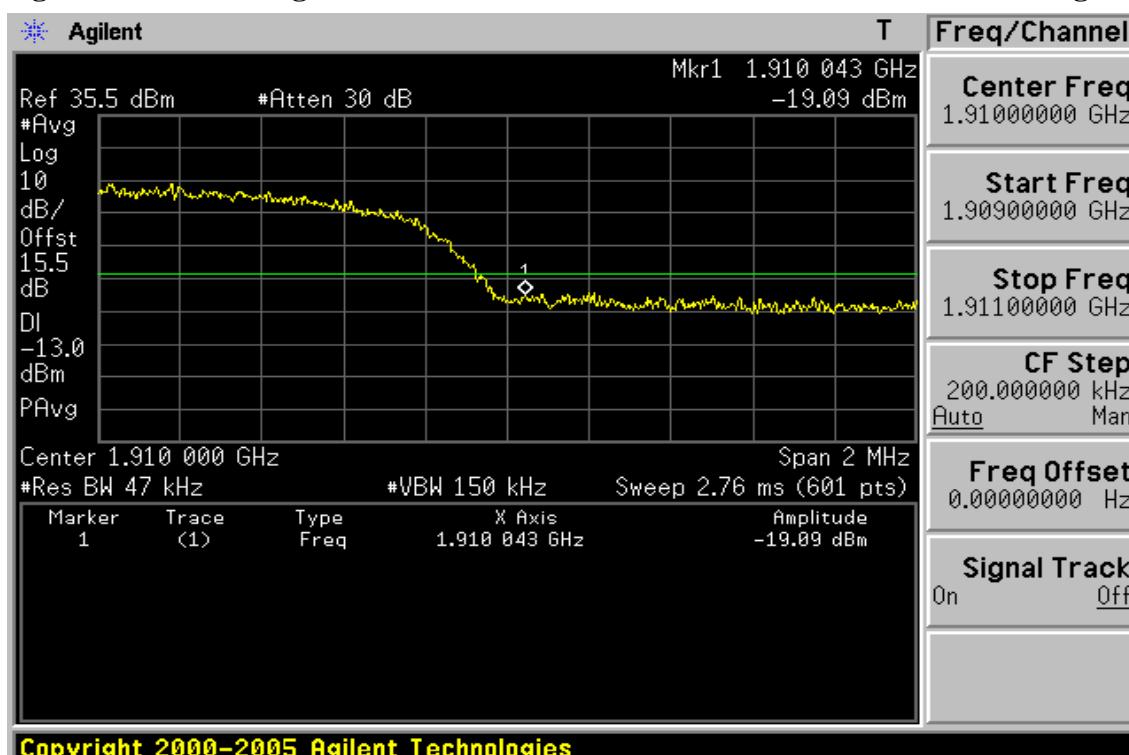


Figure 9-35: Band edge emission at antenna terminals – HSDPA II Channel Highest

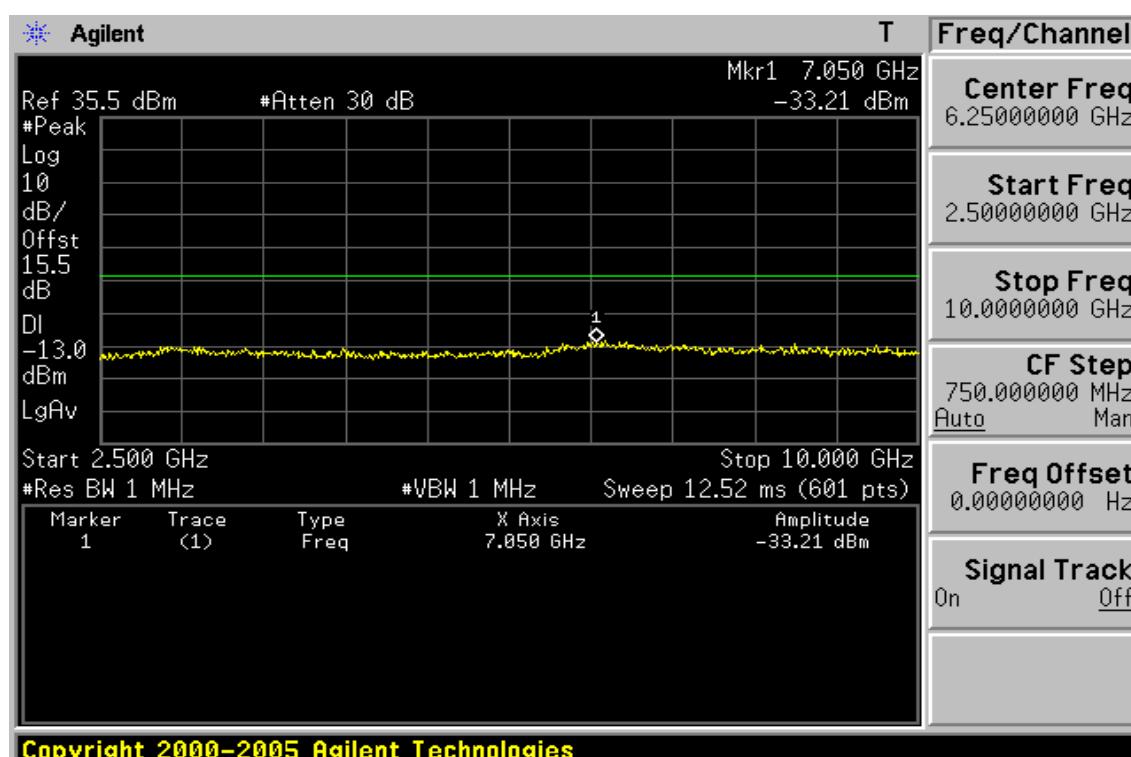
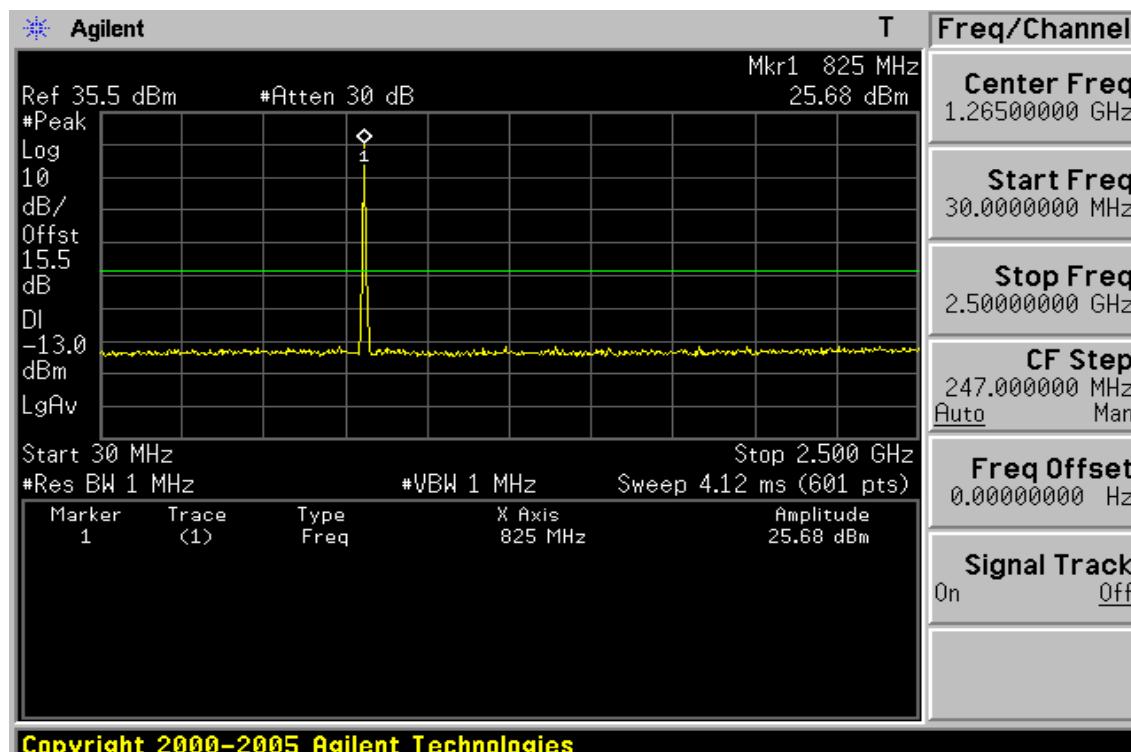


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Figure 9-36: Out of Band emission at antenna terminals – HSDPA V Channel Lowest

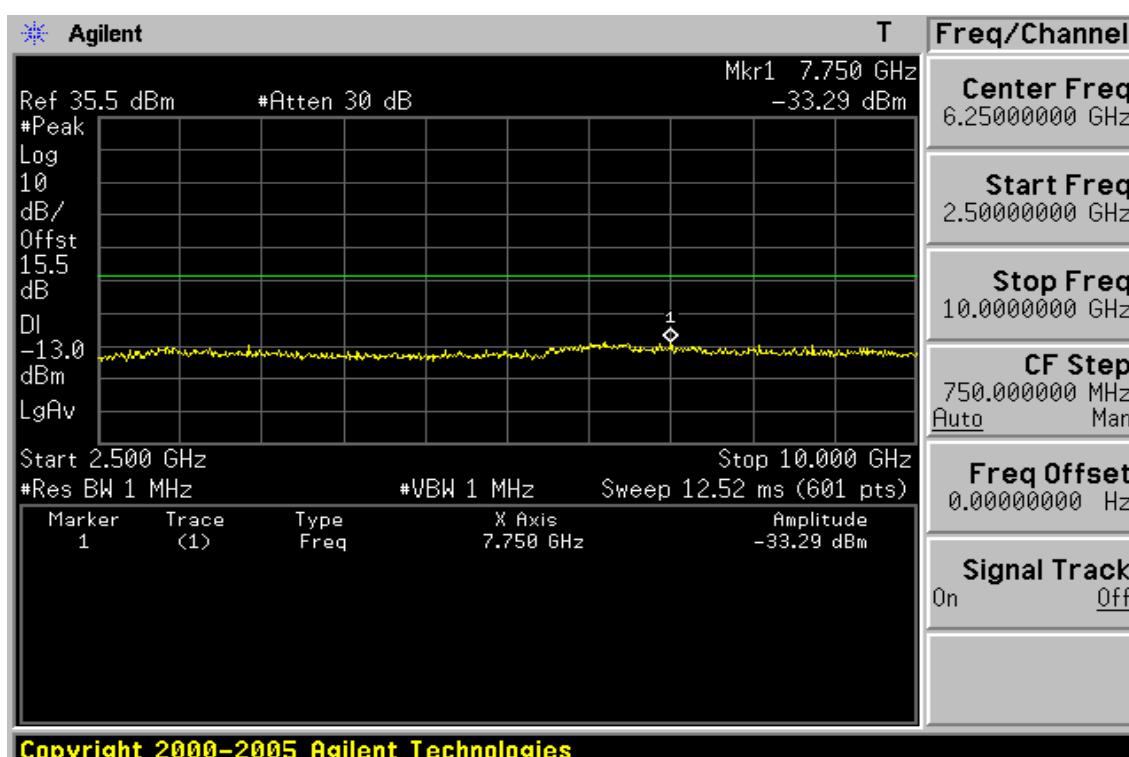
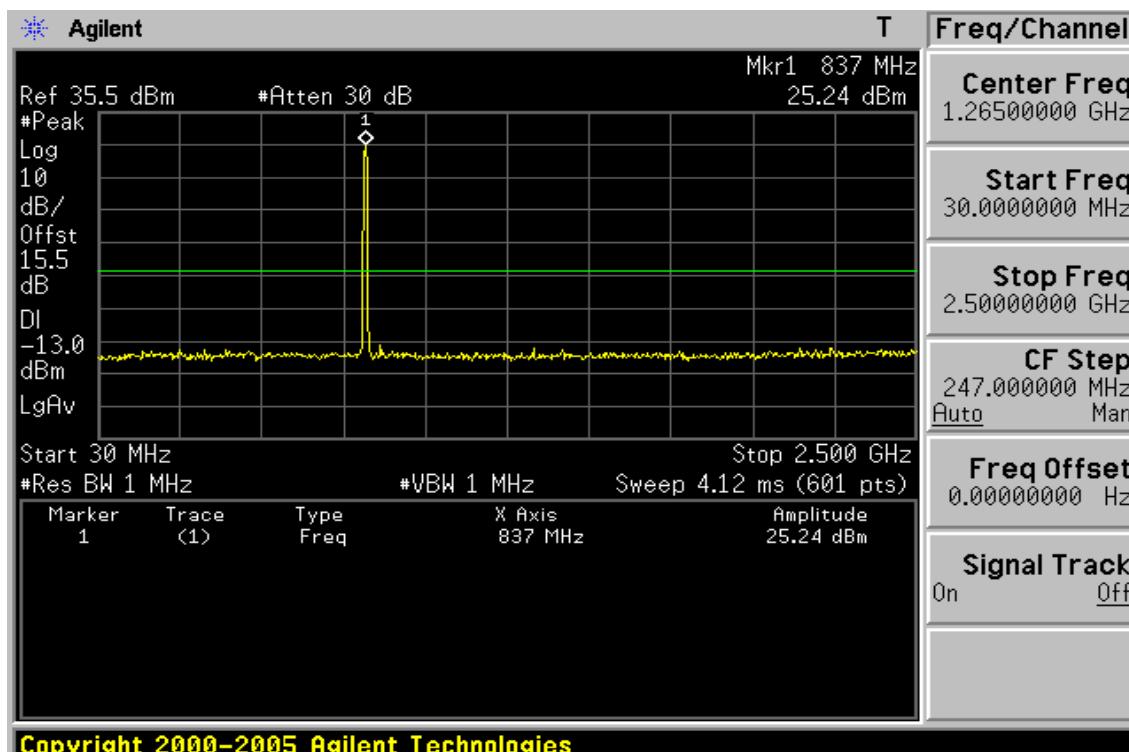


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Figure 9-37: Out of Band emission at antenna terminals – HSDPA V Channel Mid

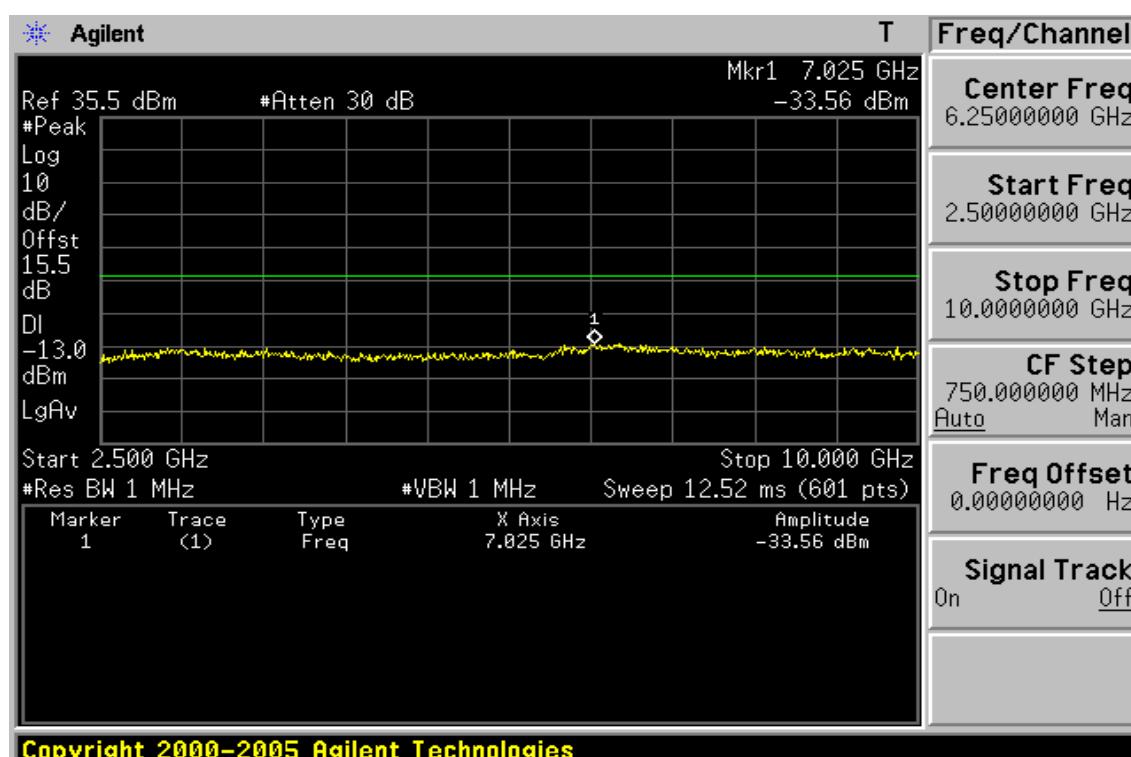
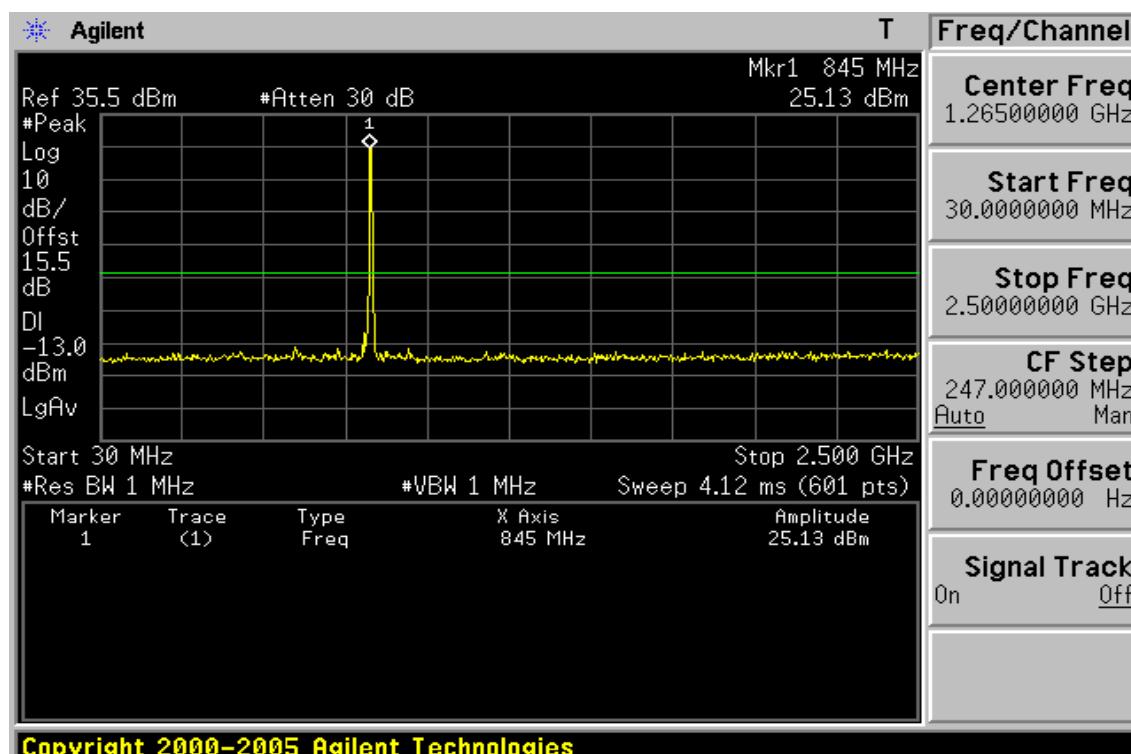


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Figure 9-38: Out of Band emission at antenna terminals – HSDPA V Channel Highest



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Figure 9-39: Band edge emission at antenna terminals – HSDPA V Channel Lowest

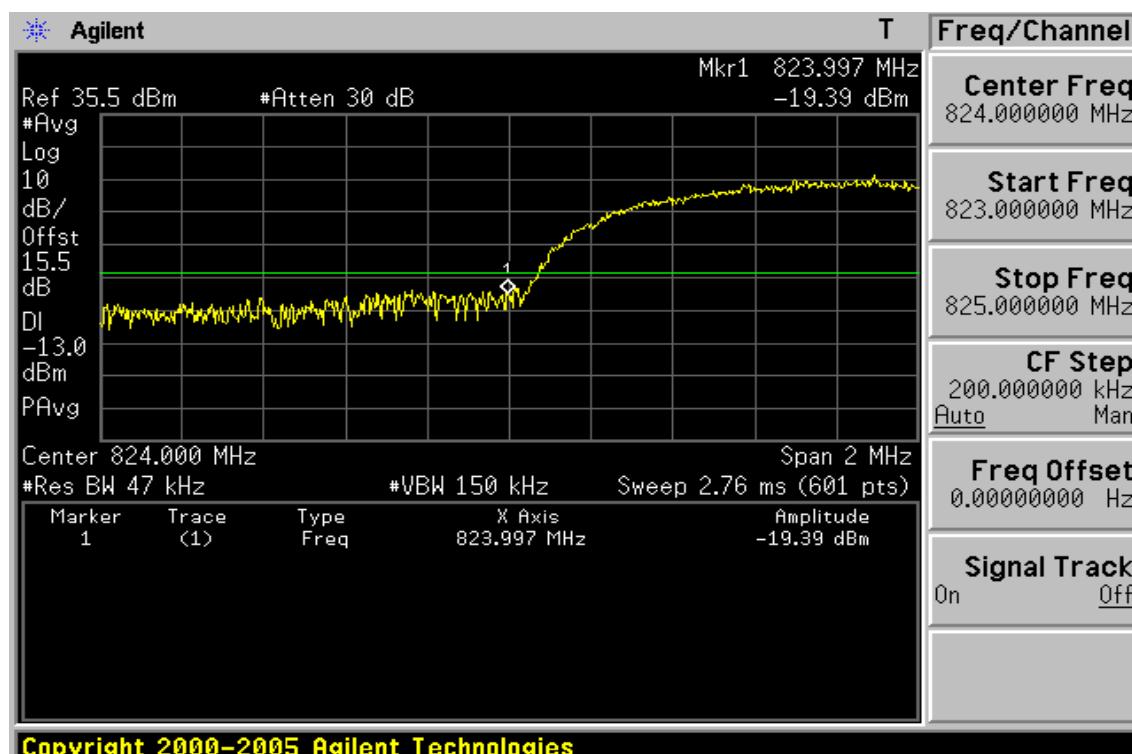
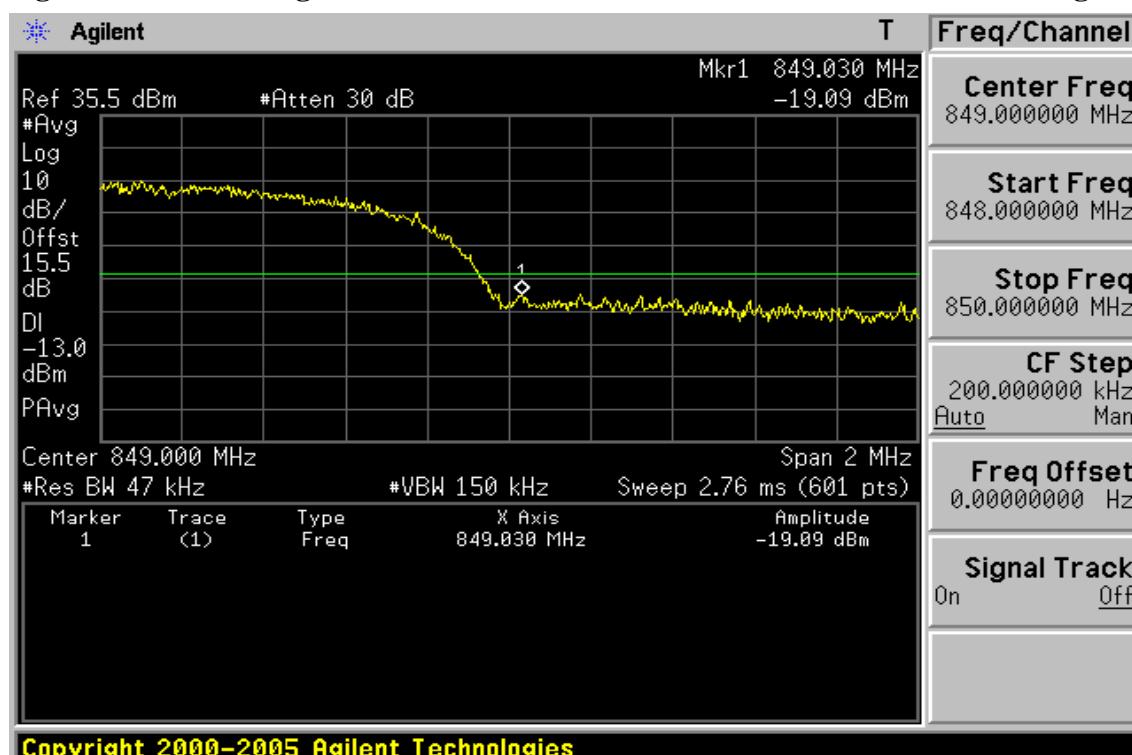


Figure 9-40: Band edge emission at antenna terminals – HSDPA V Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT (TX)

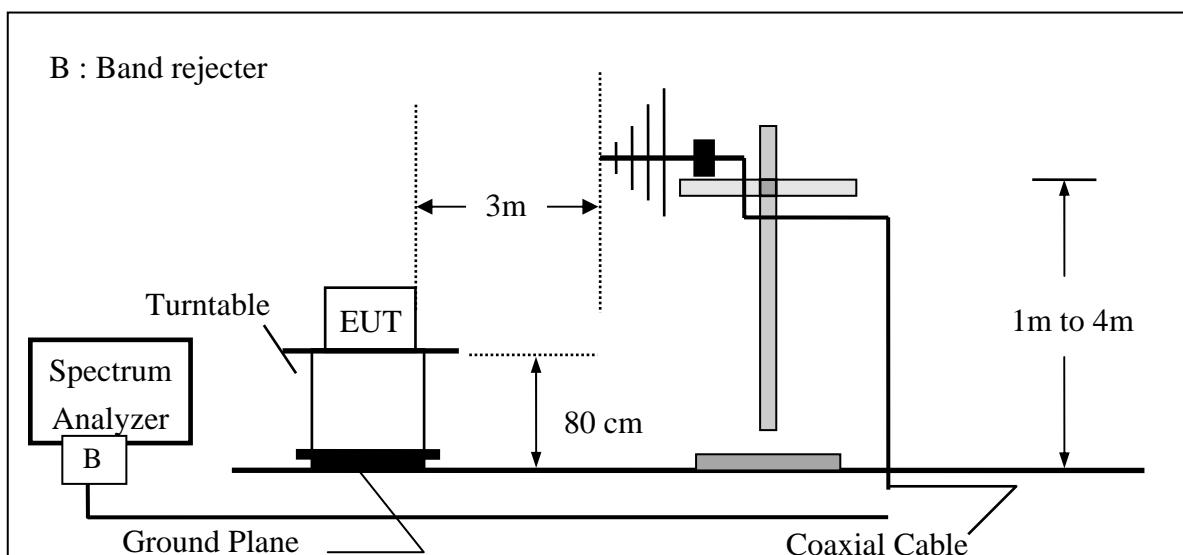
10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a) 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)

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz

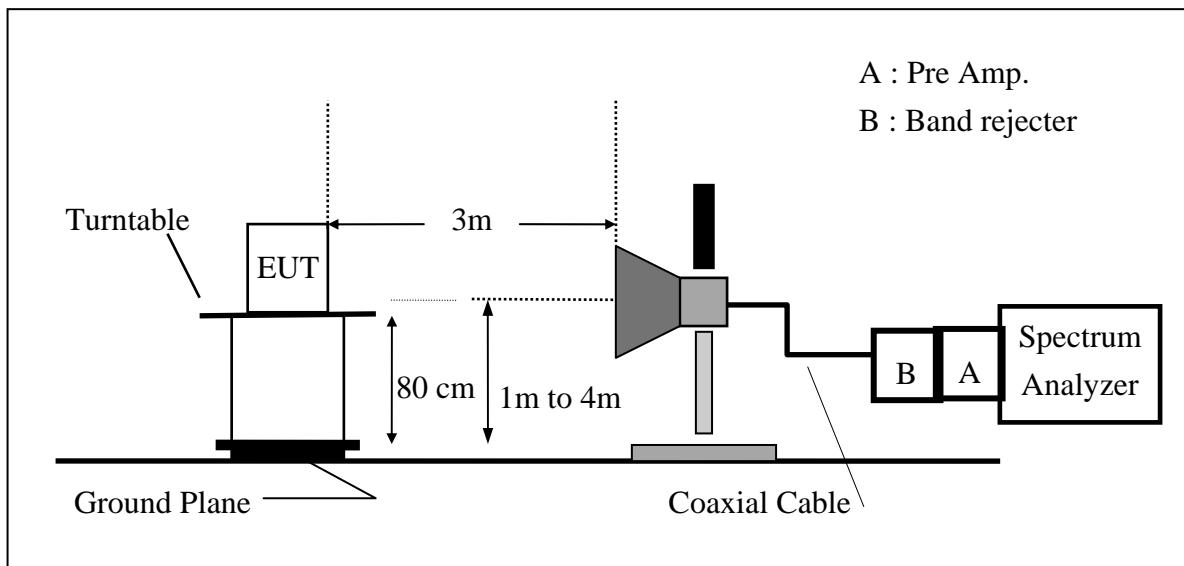


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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

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

The frequency range up to tenth harmonic was investigated for each of three fundamental 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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台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2012-04-06 |
| ARFCN | :CH 128 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :824.2 MHz | Engineer | :Nick |
| Operation Mode | :TX LOW | | |
| 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 |
| 143.49 | S | -84.99 | -3.53 | -1.26 | -2.79 | -13.00 | -71.99 |
| 265.71 | S | -77.43 | -6.51 | 4.62 | -3.27 | -13.00 | -64.43 |
| 400.54 | S | -77.84 | -5.93 | 4.78 | -3.62 | -13.00 | -64.84 |
| 459.71 | S | -74.71 | -5.25 | 4.52 | -3.72 | -13.00 | -61.71 |
| 532.46 | S | -71.61 | -3.42 | 4.63 | -3.77 | -13.00 | -58.61 |
| 667.29 | S | -78.12 | -0.60 | 4.13 | -4.14 | -13.00 | -65.12 |
| 1648.40 | H | -54.05 | 10.74 | 2.39 | -5.36 | -13.00 | -41.05 |
| 2472.60 | H | -32.64 | 15.05 | 3.14 | -6.15 | -13.00 | -19.64 |
| 3288.00 | H | --- | | | | | |
| 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 :GPRS 850
 ARFCN :CH 128
 Fundamental Frequency :824.2 MHz
 Operation Mode :TX LOW
 EUT Pol. :H Plan
 Test Date :2012-04-06
 Temp./Humi. :23 deg_C / 52 RH
 Engineer :Nick
 Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Safe |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | Margin dB |
| 199.75 | S | -79.02 | -6.78 | 4.70 | -3.09 | -13.00 | -66.02 |
| 265.71 | S | -72.25 | -6.51 | 4.62 | -3.27 | -13.00 | -59.25 |
| 400.54 | S | -75.52 | -5.93 | 4.78 | -3.62 | -13.00 | -62.52 |
| 459.71 | S | -76.72 | -5.25 | 4.52 | -3.72 | -13.00 | -63.72 |
| 532.46 | S | -73.68 | -3.42 | 4.63 | -3.77 | -13.00 | -60.68 |
| 613.94 | S | -70.35 | -0.61 | 4.06 | -3.92 | -13.00 | -57.35 |
| 1648.40 | H | -52.35 | 10.74 | 2.68 | -5.36 | -13.00 | -39.35 |
| 2472.60 | H | -28.40 | 15.05 | 3.52 | -6.15 | -13.00 | -15.40 |
| 3288.00 | H | --- | | | | | |
| 4121.00 | H | --- | | | | | |
| 4945.20 | H | --- | | | | | |
| 5769.40 | H | --- | | | | | |
| 6593.60 | H | --- | | | | | |
| 7417.80 | H | --- | | | | | |
| 8242.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GPRS 850
 ARFCN :CH 190
 Fundamental Frequency :836.6 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-04-06
 Temp./Humi. :23 deg_C / 52 RH
 Engineer :Nick
 Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna Gain dBd | Cable Loss dB | Limit | Safe |
|--------------|-----------------|------------|---------------------|------------------------|---------------------|--------------|--------|
| | | | Output Level dBm | | | Margin dB | |
| 143.49 | S | -85.88 | -3.53 | -1.26 | -2.79 | -13.00 | -72.88 |
| 265.71 | S | -78.29 | -6.51 | 4.62 | -3.27 | -13.00 | -65.29 |
| 293.84 | S | -84.70 | -5.97 | 4.59 | -3.25 | -13.00 | -71.70 |
| 459.71 | S | -76.39 | -5.25 | 4.52 | -3.72 | -13.00 | -63.39 |
| 532.46 | S | -70.96 | -3.42 | 4.63 | -3.77 | -13.00 | -57.96 |
| 725.49 | S | -79.17 | 0.48 | 3.83 | -4.14 | -13.00 | -66.17 |
| 1673.20 | H | -57.33 | 11.56 | 2.35 | -5.29 | -13.00 | -44.33 |
| 2509.80 | H | -33.76 | 14.81 | 3.19 | -6.13 | -13.00 | -20.76 |
| 3346.40 | H | --- | | | | | |
| 4183.00 | H | --- | | | | | |
| 5019.60 | H | --- | | | | | |
| 5856.20 | H | --- | | | | | |
| 6692.80 | H | --- | | | | | |
| 7529.40 | H | --- | | | | | |
| 8366.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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FCC ID: HLEPA969BTP

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Issue Date: Apr. 10, 2012
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Operation Band :GPRS 850
ARFCN :CH 190
Fundamental Frequency :836.6 MHz
Operation Mode :TX MID
EUT Pol. :H Plan
Test Date :2012-04-06
Temp./Humi. :23 deg_C / 52 RH
Engineer :Nick
Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit | Safe |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------|--------|
| | | | | | | | Margin |
| 212.36 | S | -79.28 | -8.11 | 4.81 | -3.14 | -13.00 | -66.28 |
| 265.71 | S | -70.35 | -6.51 | 4.62 | -3.27 | -13.00 | -57.35 |
| 306.45 | S | -75.16 | -6.05 | 4.66 | -3.25 | -13.00 | -62.16 |
| 400.54 | S | -75.52 | -5.93 | 4.78 | -3.62 | -13.00 | -62.52 |
| 532.46 | S | -73.39 | -3.42 | 4.63 | -3.77 | -13.00 | -60.39 |
| 614.91 | S | -73.29 | -0.61 | 4.06 | -3.97 | -13.00 | -60.29 |
| 1673.20 | H | -56.95 | 11.56 | 2.66 | -5.29 | -13.00 | -43.95 |
| 2509.80 | H | -32.66 | 14.81 | 3.55 | -6.13 | -13.00 | -19.66 |
| 3346.40 | H | --- | | | | | |
| 4183.00 | H | --- | | | | | |
| 5019.60 | H | --- | | | | | |
| 5856.20 | H | --- | | | | | |
| 6692.80 | H | --- | | | | | |
| 7529.40 | H | --- | | | | | |
| 8366.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2012-04-06 |
| ARFCN | :CH 251 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :848.8 MHz | Engineer | :Nick |
| Operation Mode | :TX HIGH | | |
| 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 |
| 99.84 | S | -86.64 | -7.00 | -0.99 | -2.72 | -13.00 | -73.64 |
| 143.49 | S | -84.86 | -3.53 | -1.26 | -2.79 | -13.00 | -71.86 |
| 265.71 | S | -77.55 | -6.51 | 4.62 | -3.27 | -13.00 | -64.55 |
| 459.71 | S | -76.62 | -5.25 | 4.52 | -3.72 | -13.00 | -63.62 |
| 532.46 | S | -71.41 | -3.42 | 4.63 | -3.77 | -13.00 | -58.41 |
| 702.21 | S | -79.17 | 0.41 | 4.12 | -4.07 | -13.00 | -66.17 |
| 1697.60 | H | -61.13 | 11.45 | 2.29 | -5.40 | -13.00 | -48.13 |
| 2546.40 | H | -36.95 | 15.05 | 3.30 | -6.24 | -13.00 | -23.95 |
| 3395.20 | H | --- | | | | | |
| 4244.00 | H | --- | | | | | |
| 5092.80 | H | --- | | | | | |
| 5941.60 | H | --- | | | | | |
| 6790.40 | H | --- | | | | | |
| 7639.20 | H | --- | | | | | |
| 8488.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GPRS 850
 ARFCN :CH 251
 Fundamental Frequency :848.8 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-04-06
 Temp./Humi. :23 deg_C / 52 RH
 Engineer :Nick
 Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Safe |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | Margin dB |
| 265.71 | S | -71.70 | -6.51 | 4.62 | -3.27 | -13.00 | -58.70 |
| 306.45 | S | -76.69 | -6.05 | 4.66 | -3.25 | -13.00 | -63.69 |
| 411.21 | S | -77.65 | -5.93 | 4.69 | -3.62 | -13.00 | -64.65 |
| 459.71 | S | -76.94 | -5.25 | 4.52 | -3.72 | -13.00 | -63.94 |
| 532.46 | S | -72.87 | -3.42 | 4.63 | -3.77 | -13.00 | -59.87 |
| 667.29 | S | -69.74 | -0.60 | 4.13 | -4.14 | -13.00 | -56.74 |
| 1697.60 | H | -55.54 | 11.45 | 2.65 | -5.40 | -13.00 | -42.54 |
| 2546.40 | H | -36.46 | 15.05 | 3.66 | -6.24 | -13.00 | -23.46 |
| 3395.20 | H | --- | | | | | |
| 4244.00 | H | --- | | | | | |
| 5092.80 | H | --- | | | | | |
| 5941.60 | H | --- | | | | | |
| 6790.40 | H | --- | | | | | |
| 7639.20 | H | --- | | | | | |
| 8488.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :EDGE 1900 | Test Date | :2012-04-06 |
| ARFCN | :CH 512 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer | :Nick |
| Operation Mode | :TX LOW | | |
| 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 | | | | |
| 143.49 | S | -83.62 | -3.53 | 0.89 | -2.79 | -13.00 | -70.62 |
| 265.71 | S | -79.72 | -6.51 | 6.77 | -3.27 | -13.00 | -66.72 |
| 411.21 | S | -75.59 | -5.93 | 6.84 | -3.62 | -13.00 | -62.59 |
| 459.71 | S | -69.99 | -5.25 | 6.67 | -3.72 | -13.00 | -56.99 |
| 532.46 | S | -65.24 | -3.42 | 6.78 | -3.77 | -13.00 | -52.24 |
| 613.94 | S | -65.27 | -0.61 | 6.21 | -3.92 | -13.00 | -52.27 |
| 3700.40 | H | -38.98 | 17.19 | 7.40 | -6.98 | -13.00 | -25.98 |
| 5550.60 | H | -51.44 | 19.64 | 8.99 | -8.37 | -13.00 | -38.44 |
| 7400.80 | H | --- | | | | | |
| 9251.00 | H | --- | | | | | |
| 11101.20 | H | --- | | | | | |
| 12951.40 | H | --- | | | | | |
| 14801.60 | H | --- | | | | | |
| 16651.80 | H | --- | | | | | |
| 18502.00 | H | --- | | | | | |

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

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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FCC ID: HLEPA969BTP

Report No.: EH/2011/B0038
Issue Date: Apr. 10, 2012
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Operation Band :EDGE 1900
ARFCN :CH 512
Fundamental Frequency :1850.2 MHz
Operation Mode :TX LOW
EUT Pol. :H Plan
Test Date :2012-04-06
Temp./Humi. :23 deg_C / 52 RH
Engineer :Nick
Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit | Safe |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------|--------|
| | | | | | | | Margin |
| 196.84 | S | -76.72 | -6.78 | 6.54 | -3.09 | -13.00 | -63.72 |
| 265.71 | S | -72.92 | -6.51 | 6.77 | -3.27 | -13.00 | -59.92 |
| 400.54 | S | -74.89 | -5.93 | 6.93 | -3.62 | -13.00 | -61.89 |
| 459.71 | S | -76.84 | -5.25 | 6.67 | -3.72 | -13.00 | -63.84 |
| 532.46 | S | -75.73 | -3.42 | 6.78 | -3.77 | -13.00 | -62.73 |
| 613.94 | S | -72.75 | -0.61 | 6.21 | -3.92 | -13.00 | -59.75 |
| 3700.40 | H | -41.38 | 15.92 | 6.92 | -6.98 | -13.00 | -28.38 |
| 5550.60 | H | -51.60 | 20.57 | 8.27 | -8.37 | -13.00 | -38.60 |
| 7400.80 | H | --- | | | | | |
| 9251.00 | H | --- | | | | | |
| 11101.20 | H | --- | | | | | |
| 12951.40 | H | --- | | | | | |
| 14801.60 | H | --- | | | | | |
| 16651.80 | H | --- | | | | | |
| 18502.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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FCC ID: HLEPA969BTP

Report No.: EH/2011/B0038

Issue Date: Apr. 10, 2012

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Operation Band :EDGE 1900
ARFCN :CH 661
Fundamental Frequency :1880 MHz
Operation Mode :TX MID
EUT Pol. :H Plan
Test Date :2012-04-06
Temp./Humi. :23 deg_C / 52 RH
Engineer :Nick
Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit | Safe |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------|--------|
| | | | | | | | Margin |
| 128.94 | S | -83.48 | -6.29 | 1.37 | -2.79 | -13.00 | -70.48 |
| 265.71 | S | -79.61 | -6.51 | 6.77 | -3.27 | -13.00 | -66.61 |
| 400.54 | S | -75.72 | -5.93 | 6.93 | -3.62 | -13.00 | -62.72 |
| 459.71 | S | -69.95 | -5.25 | 6.67 | -3.72 | -13.00 | -56.95 |
| 532.46 | S | -65.58 | -3.42 | 6.78 | -3.77 | -13.00 | -52.58 |
| 613.94 | S | -66.74 | -0.61 | 6.21 | -3.92 | -13.00 | -53.74 |
| 3760.00 | H | -44.53 | 17.43 | 7.42 | -7.12 | -13.00 | -31.53 |
| 5640.00 | H | --- | | | | | |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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FCC ID: HLEPA969BTP

Report No.: EH/2011/B0038
Issue Date: Apr. 10, 2012
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Operation Band :EDGE 1900 Test Date :2012-04-06
ARFCN :CH 661 Temp./Humi. :23 deg_C / 52 RH
Fundamental Frequency :1880 MHz Engineer :Nick
Operation Mode :TX MID
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit | Safe |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------|--------|
| | | | | | | | Margin |
| 190.05 | S | -78.96 | -6.78 | 5.81 | -3.09 | -13.00 | -65.96 |
| 265.71 | S | -69.60 | -6.51 | 6.77 | -3.27 | -13.00 | -56.60 |
| 400.54 | S | -76.56 | -5.93 | 6.93 | -3.62 | -13.00 | -63.56 |
| 459.71 | S | -77.03 | -5.25 | 6.67 | -3.72 | -13.00 | -64.03 |
| 532.46 | S | -77.67 | -3.42 | 6.78 | -3.77 | -13.00 | -64.67 |
| 629.46 | S | -77.18 | 0.18 | 6.23 | -3.97 | -13.00 | -64.18 |
| 3760.00 | H | -44.15 | 16.71 | 6.85 | -7.12 | -13.00 | -31.15 |
| 5640.00 | H | --- | | | | | |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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FCC ID: HLEPA969BTP

Report No.: EH/2011/B0038
Issue Date: Apr. 10, 2012
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Operation Band :EDGE 1900
ARFCN :CH 810
Fundamental Frequency :1909.8 MHz
Operation Mode :TX HIGH
EUT Pol. :H Plan
Test Date :2012-04-06
Temp./Humi. :23 deg_C / 52 RH
Engineer :Nick
Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit | Safe |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------|--------|
| | | | | | | | Margin |
| 190.05 | S | -82.07 | -6.78 | 5.81 | -3.09 | -13.00 | -69.07 |
| 265.71 | S | -79.91 | -6.51 | 6.77 | -3.27 | -13.00 | -66.91 |
| 411.21 | S | -75.88 | -5.93 | 6.84 | -3.62 | -13.00 | -62.88 |
| 459.71 | S | -70.11 | -5.25 | 6.67 | -3.72 | -13.00 | -57.11 |
| 532.46 | S | -65.94 | -3.42 | 6.78 | -3.77 | -13.00 | -52.94 |
| 613.94 | S | -65.44 | -0.61 | 6.21 | -3.92 | -13.00 | -52.44 |
| 3819.60 | H | -49.66 | 17.63 | 7.50 | -7.20 | -13.00 | -36.66 |
| 5729.40 | H | --- | | | | | |
| 7639.20 | H | --- | | | | | |
| 9549.00 | H | --- | | | | | |
| 11458.80 | H | --- | | | | | |
| 13368.60 | H | --- | | | | | |
| 15278.40 | H | --- | | | | | |
| 17188.20 | H | --- | | | | | |
| 19098.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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FCC ID: HLEPA969BTP

Report No.: EH/2011/B0038
Issue Date: Apr. 10, 2012
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Operation Band :EDGE 1900
ARFCN :CH 810
Fundamental Frequency :1909.8 MHz
Operation Mode :TX HIGH
EUT Pol. :H Plan
Test Date :2012-04-06
Temp./Humi. :23 deg_C / 52 RH
Engineer :Nick
Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit | Safe |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------|--------|
| | | | | | | | Margin |
| 191.99 | S | -79.87 | -6.78 | 6.02 | -3.09 | -13.00 | -66.87 |
| 265.71 | S | -71.82 | -6.51 | 6.77 | -3.27 | -13.00 | -58.82 |
| 400.54 | S | -77.19 | -5.93 | 6.93 | -3.62 | -13.00 | -64.19 |
| 459.71 | S | -77.24 | -5.25 | 6.67 | -3.72 | -13.00 | -64.24 |
| 532.46 | S | -76.95 | -3.42 | 6.78 | -3.77 | -13.00 | -63.95 |
| 614.91 | S | -76.71 | -0.61 | 6.21 | -3.97 | -13.00 | -63.71 |
| 3819.60 | H | -54.83 | 17.02 | 7.03 | -7.20 | -13.00 | -41.83 |
| 5729.40 | H | --- | | | | | |
| 7639.20 | H | --- | | | | | |
| 9549.00 | H | --- | | | | | |
| 11458.80 | H | --- | | | | | |
| 13368.60 | H | --- | | | | | |
| 15278.40 | H | --- | | | | | |
| 17188.20 | H | --- | | | | | |
| 19098.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :WCDMA B2 | Test Date | :2012-04-06 |
| ARFCN | :CH 9262 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer | :Nick |
| Operation Mode | :TX LOW | | |
| 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 | | | | |
| 143.49 | S | -83.03 | -3.53 | 0.89 | -2.79 | -13.00 | -70.03 |
| 199.75 | S | -78.81 | -6.78 | 6.85 | -3.09 | -13.00 | -65.81 |
| 435.46 | S | -76.80 | -5.73 | 6.68 | -3.70 | -13.00 | -63.80 |
| 459.71 | S | -69.66 | -5.25 | 6.67 | -3.72 | -13.00 | -56.66 |
| 532.46 | S | -66.49 | -3.42 | 6.78 | -3.77 | -13.00 | -53.49 |
| 614.91 | S | -68.02 | -0.61 | 6.21 | -3.97 | -13.00 | -55.02 |
| 3704.80 | H | -50.57 | 17.24 | 7.40 | -7.06 | -13.00 | -37.57 |
| 5557.20 | H | --- | | | | | |
| 7409.60 | H | --- | | | | | |
| 9262.00 | H | --- | | | | | |
| 11114.40 | H | --- | | | | | |
| 12966.80 | H | --- | | | | | |
| 14819.20 | H | --- | | | | | |
| 16671.60 | H | --- | | | | | |
| 18524.00 | H | --- | | | | | |

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

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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FCC ID: HLEPA969BTP

Report No.: EH/2011/B0038
Issue Date: Apr. 10, 2012
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Operation Band :WCDMA B2 Test Date :2012-04-06
ARFCN :CH 9262 Temp./Humi. :23 deg_C / 52 RH
Fundamental Frequency :1852.4 MHz Engineer :Nick
Operation Mode :TX LOW
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Safe |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | Margin dB |
| 202.66 | S | -79.05 | -8.11 | 6.90 | -3.14 | -13.00 | -66.05 |
| 265.71 | S | -72.90 | -6.51 | 6.77 | -3.27 | -13.00 | -59.90 |
| 400.54 | S | -74.92 | -5.93 | 6.93 | -3.62 | -13.00 | -61.92 |
| 459.71 | S | -75.71 | -5.25 | 6.67 | -3.72 | -13.00 | -62.71 |
| 532.46 | S | -75.91 | -3.42 | 6.78 | -3.77 | -13.00 | -62.91 |
| 614.91 | S | -76.17 | -0.61 | 6.21 | -3.97 | -13.00 | -63.17 |
| 3704.80 | H | -50.47 | 15.57 | 6.89 | -7.06 | -13.00 | -37.47 |
| 5557.20 | H | --- | | | | | |
| 7409.60 | H | --- | | | | | |
| 9262.00 | H | --- | | | | | |
| 11114.40 | H | --- | | | | | |
| 12966.80 | H | --- | | | | | |
| 14819.20 | H | --- | | | | | |
| 16671.60 | H | --- | | | | | |
| 18524.00 | H | --- | | | | | |

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

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 :WCDMA B2
 ARFCN :CH 9400
 Fundamental Frequency :1880 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-04-06
 Temp./Humi. :23 deg_C / 52 RH
 Engineer :Nick
 Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Safe |
|--------------|-----------------|-------------|---------------------|-------------|------------|---------------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | Margin dBm | |
| 199.75 | S | -79.36 | -6.78 | 6.85 | -3.09 | -13.00 | -66.36 |
| 265.71 | S | -80.51 | -6.51 | 6.77 | -3.27 | -13.00 | -67.51 |
| 411.21 | S | -76.13 | -5.93 | 6.84 | -3.62 | -13.00 | -63.13 |
| 459.71 | S | -69.30 | -5.25 | 6.67 | -3.72 | -13.00 | -56.30 |
| 532.46 | S | -66.13 | -3.42 | 6.78 | -3.77 | -13.00 | -53.13 |
| 613.94 | S | -67.05 | -0.61 | 6.21 | -3.92 | -13.00 | -54.05 |
| 3760.00 | H | -50.64 | 17.43 | 7.42 | -7.12 | -13.00 | -37.64 |
| 5640.00 | H | --- | | | | | |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

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

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 | :WCDMA B2 | Test Date | :2012-04-06 |
| ARFCN | :CH 9400 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1880 MHz | Engineer | :Nick |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------|---------|---------------------|--------------|----------------------|
| | | | Output Level dBm | | | | |
| 192.96 | S | -79.06 | -6.78 | 6.13 | -3.09 | -13.00 | -66.06 |
| 265.71 | S | -72.45 | -6.51 | 6.77 | -3.27 | -13.00 | -59.45 |
| 400.54 | S | -75.42 | -5.93 | 6.93 | -3.62 | -13.00 | -62.42 |
| 459.71 | S | -76.55 | -5.25 | 6.67 | -3.72 | -13.00 | -63.55 |
| 532.46 | S | -78.03 | -3.42 | 6.78 | -3.77 | -13.00 | -65.03 |
| 623.64 | S | -76.34 | 0.18 | 6.22 | -3.97 | -13.00 | -63.34 |
| 3760.00 | H | -51.79 | 16.71 | 6.85 | -7.12 | -13.00 | -38.79 |
| 5640.00 | H | --- | | | | | |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

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

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 :WCDMA B2
 ARFCN :CH 9538
 Fundamental Frequency :1907.6 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan

Test Date :2012-04-06
 Temp./Humi. :23 deg_C / 52 RH
 Engineer :Nick

Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit | Safe |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------|--------|
| | | | | | | | Margin |
| 265.71 | S | -80.60 | -6.51 | 6.77 | -3.27 | -13.00 | -67.60 |
| 435.46 | S | -76.53 | -5.73 | 6.68 | -3.70 | -13.00 | -63.53 |
| 459.71 | S | -69.88 | -5.25 | 6.67 | -3.72 | -13.00 | -56.88 |
| 532.46 | S | -65.96 | -3.42 | 6.78 | -3.77 | -13.00 | -52.96 |
| 613.94 | S | -68.97 | -0.61 | 6.21 | -3.92 | -13.00 | -55.97 |
| 667.29 | S | -70.09 | -0.60 | 6.28 | -4.14 | -13.00 | -57.09 |
| 3815.20 | H | -51.42 | 17.63 | 7.50 | -7.20 | -13.00 | -38.42 |
| 5722.80 | H | --- | | | | | |
| 7630.40 | H | --- | | | | | |
| 9538.00 | H | --- | | | | | |
| 11445.60 | H | --- | | | | | |
| 13353.20 | H | --- | | | | | |
| 15260.80 | H | --- | | | | | |
| 17168.40 | H | --- | | | | | |
| 19076.00 | H | --- | | | | | |

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

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 | :WCDMA B2 | Test Date | :2012-04-06 |
| ARFCN | :CH 9538 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer | :Nick |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Safe |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | Margin dB |
| 187.14 | S | -80.29 | -6.78 | 5.46 | -3.09 | -13.00 | -67.29 |
| 265.71 | S | -72.41 | -6.51 | 6.77 | -3.27 | -13.00 | -59.41 |
| 400.54 | S | -77.64 | -5.93 | 6.93 | -3.62 | -13.00 | -64.64 |
| 459.71 | S | -77.29 | -5.25 | 6.67 | -3.72 | -13.00 | -64.29 |
| 619.76 | S | -77.15 | 0.18 | 6.22 | -3.97 | -13.00 | -64.15 |
| 699.30 | S | -77.06 | -0.53 | 6.30 | -4.07 | -13.00 | -64.06 |
| 3815.20 | H | -53.18 | 17.02 | 7.03 | -7.20 | -13.00 | -40.18 |
| 5722.80 | H | --- | | | | | |
| 7630.40 | H | --- | | | | | |
| 9538.00 | H | --- | | | | | |
| 11445.60 | H | --- | | | | | |
| 13353.20 | H | --- | | | | | |
| 15260.80 | H | --- | | | | | |
| 17168.40 | H | --- | | | | | |
| 19076.00 | H | --- | | | | | |

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

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: HSDPA V Mode

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSDPA B5 | Test Date | :2012-04-06 |
| ARFCN | :CH 4132 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :826.4 MHz | Engineer | :Nick |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna Output Level dBm | Gain dBd | Cable Loss dB | Limit | Safe |
|--------------|-----------------|------------|-------|--------------------------------|-------------|---------------------|--------|--------|
| | | | | | | | | Margin |
| 192.96 | S | -81.97 | -6.78 | 3.98 | -3.09 | -13.00 | -68.97 | |
| 274.44 | S | -81.39 | -6.51 | 4.50 | -3.22 | -13.00 | -68.39 | |
| 400.54 | S | -78.96 | -5.93 | 4.78 | -3.62 | -13.00 | -65.96 | |
| 459.71 | S | -70.76 | -5.25 | 4.52 | -3.72 | -13.00 | -57.76 | |
| 547.01 | S | -69.70 | -2.45 | 4.59 | -3.85 | -13.00 | -56.70 | |
| 638.19 | S | -73.16 | 0.18 | 4.10 | -3.98 | -13.00 | -60.16 | |
| 1652.80 | H | --- | | | | | | |
| 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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FCC ID: HLEPA969BTP

Report No.: EH/2011/B0038

Issue Date: Apr. 10, 2012

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Operation Band :HSDPA B5
ARFCN :CH 4132
Fundamental Frequency :826.4 MHz
Operation Mode :TX LOW
EUT Pol. :E1 Plan

Test Date :2012-04-06
Temp./Humi. :23 deg_C / 52 RH
Engineer :Nick

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 | | | | |
| 192.96 | S | -80.16 | -6.78 | 3.98 | -3.09 | -13.00 | -67.16 |
| 265.71 | S | -73.84 | -6.51 | 4.62 | -3.27 | -13.00 | -60.84 |
| 400.54 | S | -78.44 | -5.93 | 4.78 | -3.62 | -13.00 | -65.44 |
| 459.71 | S | -78.50 | -5.25 | 4.52 | -3.72 | -13.00 | -65.50 |
| 532.46 | S | -78.30 | -3.42 | 4.63 | -3.77 | -13.00 | -65.30 |
| 653.71 | S | -77.83 | -0.48 | 4.12 | -4.14 | -13.00 | -64.83 |
| 1652.80 | H | --- | | | | | |
| 2479.20 | H | --- | | | | | |
| 3305.60 | H | --- | | | | | |
| 4132.00 | H | --- | | | | | |
| 4958.40 | H | --- | | | | | |
| 5784.80 | H | --- | | | | | |
| 6611.20 | H | --- | | | | | |
| 7437.60 | H | --- | | | | | |
| 8264.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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FCC ID: HLEPA969BTP

Report No.: EH/2011/B0038

Issue Date: Apr. 10, 2012

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Operation Band :HSDPA B5
ARFCN :CH 4183
Fundamental Frequency :836.6 MHz
Operation Mode :TX MID
EUT Pol. :E1 Plan

Test Date :2012-04-06
Temp./Humi. :23 deg_C / 52 RH
Engineer :Nick

Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna Output Level dBm | Cable Gain dBd | Limit Loss dB | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|--------------------------------|----------------------|---------------------|----------------------|
| | | | SG Output Level dBm | | | | |
| 143.49 | S | -85.48 | -3.53 | -1.26 | -2.79 | -13.00 | -72.48 |
| 265.71 | S | -81.96 | -6.51 | 4.62 | -3.27 | -13.00 | -68.96 |
| 411.21 | S | -78.10 | -5.93 | 4.69 | -3.62 | -13.00 | -65.10 |
| 459.71 | S | -71.90 | -5.25 | 4.52 | -3.72 | -13.00 | -58.90 |
| 532.46 | S | -70.25 | -3.42 | 4.63 | -3.77 | -13.00 | -57.25 |
| 638.19 | S | -72.85 | 0.18 | 4.10 | -3.98 | -13.00 | -59.85 |
| 1673.20 | H | --- | | | | | |
| 2509.80 | H | --- | | | | | |
| 3346.40 | H | --- | | | | | |
| 4183.00 | H | --- | | | | | |
| 5019.60 | H | --- | | | | | |
| 5856.20 | H | --- | | | | | |
| 6692.80 | H | --- | | | | | |
| 7529.40 | H | --- | | | | | |
| 8366.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSDPA B5 | Test Date | :2012-04-06 |
| ARFCN | :CH 4183 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Nick |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Safe |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | Margin dB |
| 192.96 | S | -81.68 | -6.78 | 3.98 | -3.09 | -13.00 | -68.68 |
| 265.71 | S | -74.86 | -6.51 | 4.62 | -3.27 | -13.00 | -61.86 |
| 400.54 | S | -79.46 | -5.93 | 4.78 | -3.62 | -13.00 | -66.46 |
| 459.71 | S | -79.16 | -5.25 | 4.52 | -3.72 | -13.00 | -66.16 |
| 613.94 | S | -79.87 | -0.61 | 4.06 | -3.92 | -13.00 | -66.87 |
| 694.45 | S | -79.60 | -0.53 | 4.15 | -4.07 | -13.00 | -66.60 |
| 1673.20 | H | --- | | | | | |
| 2509.80 | H | --- | | | | | |
| 3346.40 | H | --- | | | | | |
| 4183.00 | H | --- | | | | | |
| 5019.60 | H | --- | | | | | |
| 5856.20 | H | --- | | | | | |
| 6692.80 | H | --- | | | | | |
| 7529.40 | H | --- | | | | | |
| 8366.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :HSDPA B5
 ARFCN :CH 4233
 Fundamental Frequency :846.6 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E1 Plan
 Test Date :2012-04-06
 Temp./Humi. :23 deg_C / 52 RH
 Engineer :Nick
 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 |
| 143.49 | S | -85.96 | -3.53 | -1.26 | -2.79 | -13.00 | -72.96 |
| 274.44 | S | -81.68 | -6.51 | 4.50 | -3.22 | -13.00 | -68.68 |
| 400.54 | S | -79.92 | -5.93 | 4.78 | -3.62 | -13.00 | -66.92 |
| 456.80 | S | -70.67 | -5.25 | 4.50 | -3.72 | -13.00 | -57.67 |
| 532.46 | S | -69.02 | -3.42 | 4.63 | -3.77 | -13.00 | -56.02 |
| 638.19 | S | -72.42 | 0.18 | 4.10 | -3.98 | -13.00 | -59.42 |
| 1693.20 | H | --- | | | | | |
| 2539.80 | H | --- | | | | | |
| 3386.40 | H | --- | | | | | |
| 4233.00 | H | --- | | | | | |
| 5079.60 | H | --- | | | | | |
| 5926.20 | H | --- | | | | | |
| 6772.80 | H | --- | | | | | |
| 7619.40 | H | --- | | | | | |
| 8466.00 | H | --- | | | | | |

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

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

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Operation Band :HSDPA B5
 ARFCN :CH 4233
 Fundamental Frequency :846.6 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E1 Plan

Test Date :2012-04-06
 Temp./Humi. :23 deg_C / 52 RH
 Engineer :Nick

Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna Output Level dBm | Cable Gain dBd | Limit Loss dB | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|--------------------------------|----------------------|---------------------|----------------------|
| | | | SG Output Level dBm | | | | |
| 196.84 | S | -82.11 | -6.78 | 4.39 | -3.09 | -13.00 | -69.11 |
| 265.71 | S | -73.21 | -6.51 | 4.62 | -3.27 | -13.00 | -60.21 |
| 400.54 | S | -79.21 | -5.93 | 4.78 | -3.62 | -13.00 | -66.21 |
| 459.71 | S | -79.08 | -5.25 | 4.52 | -3.72 | -13.00 | -66.08 |
| 578.05 | S | -79.64 | -1.75 | 4.27 | -3.87 | -13.00 | -66.64 |
| 616.85 | S | -79.51 | -0.61 | 4.06 | -3.97 | -13.00 | -66.51 |
| 1693.20 | H | --- | | | | | |
| 2539.80 | H | --- | | | | | |
| 3386.40 | H | --- | | | | | |
| 4233.00 | H | --- | | | | | |
| 5079.60 | H | --- | | | | | |
| 5926.20 | H | --- | | | | | |
| 6772.80 | H | --- | | | | | |
| 7619.40 | H | --- | | | | | |
| 8466.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

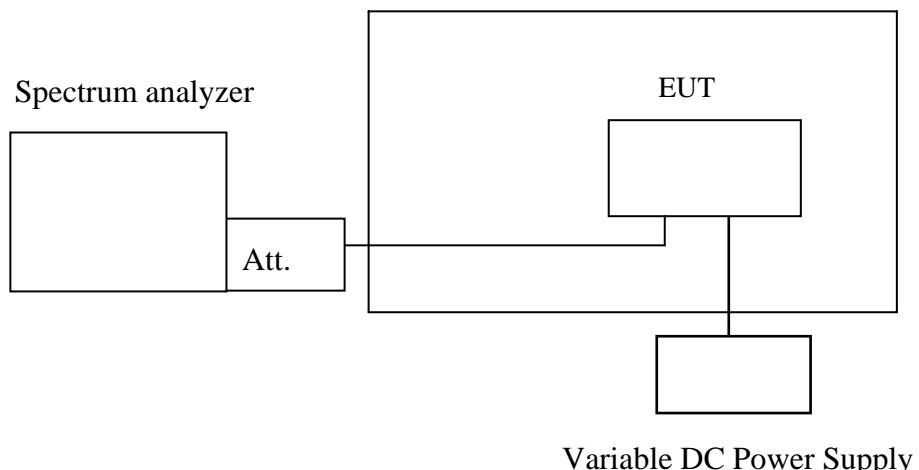
According to FCC §2.1055(a) (1)

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

+/-2.5ppm for 1900MHz band

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 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz @ 25°C | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 7.4 | 0 | 836.599986 | 4.00 | 2091 |
| 7.4 | 10 | 836.599993 | -3.00 | 2091 |
| 7.4 | 20 | 836.599991 | -1.00 | 2091 |
| 7.4 | 30 | 836.599990 | 0.00 | 2091 |
| 7.4 | 40 | 836.599993 | -3.00 | 2091 |
| 7.4 | 50 | 836.599989 | 1.00 | 2091 |

| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz @ 20°C | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 7.4 | 0 | 1879.999980 | 0.00 | 4700 |
| 7.4 | 10 | 1879.999993 | -13.00 | 4700 |
| 7.4 | 20 | 1879.999987 | -7.00 | 4700 |
| 7.4 | 30 | 1879.999980 | 0.00 | 4700 |
| 7.4 | 40 | 1879.999977 | 3.00 | 4700 |
| 7.4 | 50 | 1879.999973 | 7.00 | 4700 |

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| Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 7.4 | 0 | 1879.999996 | 2.00 | 4700 |
| 7.4 | 10 | 1880.000002 | -4.00 | 4700 |
| 7.4 | 20 | 1879.999998 | 0.00 | 4700 |
| 7.4 | 30 | 1880.000001 | -3.00 | 4700 |
| 7.4 | 40 | 1879.999997 | 1.00 | 4700 |
| 7.4 | 50 | 1879.999998 | 0.00 | 4700 |

| Reference Frequency: WCDMA V Mid Channel 836.6 (ARFCN4183) MHz | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 7.4 | 0 | 836.599997 | 6.00 | 2091 |
| 7.4 | 10 | 836.599998 | 5.00 | 2091 |
| 7.4 | 20 | 836.600003 | 0.00 | 2091 |
| 7.4 | 30 | 836.599998 | 5.00 | 2091 |
| 7.4 | 40 | 836.599999 | 4.00 | 2091 |
| 7.4 | 50 | 836.599998 | 5.00 | 2091 |

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

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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: GPRS 850 Mid Channel 836.6 MHz @ 25°C | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 7.77 | 25.00 | 836.599994 | -3.00 | 2091.00 |
| 7.40 | 25.00 | 836.599991 | 0.00 | 2091.00 |
| 7.03 | 25.00 | 836.600003 | -12.00 | 2091.00 |
| 6.4 (End Point) | 25.00 | 836.599979 | 12.00 | 2091.00 |

| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz @ 25°C | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 7.77 | 25 | 1879.999978 | 9.00 | 4700 |
| 7.40 | 25 | 1879.999987 | 0.00 | 4700 |
| 7.03 | 25 | 1879.999990 | -3.00 | 4700 |
| 6.4 (End Point) | 25 | 1879.999965 | 22.00 | 4700 |

| Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 7.77 | 25 | 1880.000002 | -4.00 | 4700 |
| 7.40 | 25 | 1879.999998 | 0.00 | 4700 |
| 7.03 | 25 | 1879.999999 | -1.00 | 4700 |
| 6.4 (Endpoint) | 25 | 1879.999975 | 23.00 | 4700 |

| Reference Frequency: WCDMA V Mid Channel 836.6 (ARFCN4183) MHz | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 7.77 | 25.00 | 836.600001 | 2.00 | 2091.00 |
| 7.40 | 25.00 | 836.600003 | 0.00 | 2091.00 |
| 7.03 | 25.00 | 836.600002 | 1.00 | 2091.00 |
| 6.4 (Endpoint) | 25.00 | 836.6000050 | -2.00 | 2091.00 |

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