

OELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: HSDPA PCI Express mini card module

Brand Name: N/A

Model Name: H18T

Model Difference: N/A

FCC ID: VRSH18T

Report No.: EH/2010/30058

Issue Date: Apr. 09, 2010

FCC Rule Part: 2 , 22H, 24E

Prepared for: Qisda Corporation
157, Shan-Ying Road , GueiShan Taoyuan
333, Taiwan

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

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VERIFICATION OF COMPLIANCE

Applicant: Qisda Corporation
 157, Shan-Ying Road , GueiShan Taoyuan 333, Taiwan

Product Name: HSDPA PCI Express mini card module

FCC ID: VRSH18T

Brand Name: N/A

Model No.: H18T

Model Difference: N/A

File Number: EH/2010/30058


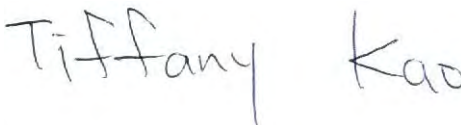

Date of test: Mar. 24, 2010 ~ Apr. 02, 2010

Date of EUT Received: Mar. 24, 2010

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 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. 09, 2010 |
| | _____ Brian Chang / Engineer | | _____ |
| Prepared By: |  | Date: | Apr. 09, 2010 |
| | _____ Tiffany Kao / Clerk | | _____ |
| Approved By: |  | Date: | Apr. 09, 2010 |
| | _____ Vincent Su / Manager | | _____ |

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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 00 | Apr. 09, 2010 | Initial creation of document |
| | | |

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1 GENERAL INFORMATION

General:

| | |
|------------------|------------------------------------|
| Product Name | HSDPA PCI Express mini card module |
| Brand Name | N/A |
| Model Name | H18T |
| Model Difference | N/A |
| Power Supply | 3.3 Vdc |

GSM and WCDMA:

| | Operating Frequency | Rated Power | |
|---|---|-----------------------|--------|
| Cellular Phone Standards Frequency Range and Power | GSM/GPRS 850 Class 12 | 824.2 MHz– 848.8 MHz | 33 dBm |
| | GSM/GPRS 1900 Class 12 | 1850.2MHz – 1909.8MHz | 30 dBm |
| | EDGE 850 Class 12 | 824.2 MHz– 848.8 MHz | 27 dBm |
| | EDGE 1900 Class 12 | 1850.2MHz – 1909.8MHz | 26 dBm |
| | WCDMA/HSDPA Band I | 1922.4MHz – 1977.6MHz | 24 dBm |
| | WCDMA/HSDPA Band II | 1852.4MHz – 1907.6MHz | 24 dBm |
| | WCDMA/HSDPA Band V | 826.4MHz –846.6MHz | 24 dBm |
| Type of Emission | GSM/GPRS 850: 245KGXW, GSM/GPRS 1900: 247GXW EDGE 850: 250KG7W, EDGE 1900:245KG7W WCDMA Band II: 4M16F9W WCDMA Band V: 4M15F9W | | |
| IMEI | 01230000000059 | | |
| Hardware Version: | N/A | | |
| Software Version | N/A | | |

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Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|----------------|----------------|-----------------|
| GPRS 850 | 3.3V | 660 |
| GPRS 1900 | 3.3V | 490 |
| GPRS EDGE 850 | 3.3V | 640 |
| GPRS EDGE 1900 | 3.3V | 460 |
| WCDMA Band 2 | 3.3V | 550 |
| HSDDA Band 2 | 3.3V | 670 |
| WCDMA Band 5 | 3.3V | 530 |
| HSDPA Band 5 | 3.3V | 520 |

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

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1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **VRSH18T** filing to comply with Section Part 22 subpart H, Part 24 subpart E.

1.2 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA-603C and FCC 47 CFR 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

1.3 Test Facility

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

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

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

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2 SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

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

2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C and TIA/EIA IS-98 for Mobile stations. 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 according to the requirements.

A standard antenna was used to replace the EUT and connect to the SG. Adjust the SG output level to reach the max emission level which were measured above.

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2.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E4440A | US41160416 | 01/25/2010 | 01/24/2011 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 05/13/2008 | 05/13/2010 |
| 800 – 1000MHz Filter | Micro-Tronics | BRM13462 | 001 | 01/05/2010 | 01/04/2011 |
| 1800 – 2000MHz Filter | Micro-Tronics | BRM13463 | 001 | 01/05/2010 | 01/04/2011 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 04/14/2008 | 04/13/2010 |
| Temperature Chamber | GIANT FORCE | GTH-150-40-CP-AR | MAA0512-018 | 02/05/2010 | 02/04/2012 |
| DC Block | Agilent | BLK-18 | 155452 | 07/05/2009 | 07/04/2010 |
| Attenuator | Mini-Circuit | BW-S20W5 | N/A | 07/05/2009 | 07/04/2010 |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 07/05/2009 | 07/04/2010 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 07/05/2009 | 07/04/2010 |
| Splitter | Agilent | 11636B | N/A | 07/05/2009 | 07/04/2010 |
| DC Power Supply | HP | 6038A | 2929A-07548 | 06/27/2009 | 06/26/2011 |
| DC Power Supply | Topward | 3303D | 981327 | 10/26/2008 | 10/25/2010 |

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| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber | | | | | |
|--|--------------|---------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 02/12/2010 | 02/11/2011 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 9160-3136 | 11/19/2009 | 11/18/2010 |
| Dipole Antenna | SCHWAZBECK | VHAP | 908/909 | 07/10/2008 | 07/09/2010 |
| Dipole Antenna | SCHWAZBECK | UHAP | 891/892 | 07/10/2008 | 07/09/2010 |
| Hor.n antenna | SCHWAZBECK | BBHA 9120D | 309 | 05/09/2008 | 05/10/2010 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | 9120D-673 | 05/09/2008 | 05/08/2010 |
| Signal Generator | R&S | SMR40 | 100210 | 02/10/2010 | 02/09/2012 |
| Signal Generator | Agilent | E4438C | MY45093613 | 05/22/2009 | 05/21/2010 |
| Pre-Amplifier | Agilent | 8447D | 1937A02834 | 11/28/2009 | 11/27/2010 |
| Pre-Amplifier | Agilent | 8449B | 3008A01973 | 01/05/2010 | 01/04/2011 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2009 | 07/04/2010 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2009 | 07/04/2010 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2009 | 07/04/2010 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 05/13/2008 | 05/13/2010 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-10M | 10m | 01/05/2010 | 01/04/2011 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 01/05/2010 | 01/04/2011 |
| 3m Site | SGS | 966 chamber | N/A | 11/08/2009 | 11/09/2010 |

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2.5. Configuration of Tested System

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

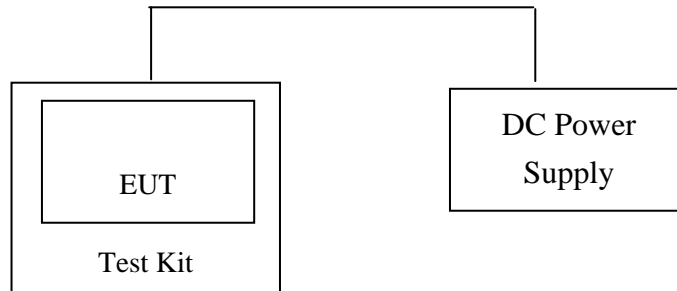


Fig. 2-2 Configuration of Tested System (Remote Side)

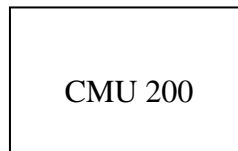


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID | Series No. |
|------|------------------------------|-----------|----------------|--------|------------|
| 1. | Radio Communication Analyzer | R&S | CMU200 | N/A | 102189 |
| 2. | DC Power Supply | Chroma | 41901 | N/A | 777188 |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|--|--|-----------|
| §2.1046(a) §22.913(a) §24.232(c) | RF Conducted Power Output | Compliant |
| §2.1046(a) §22.913(a) §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 | Compliant |
| §2.1053 §22.917(a) §24.238(a) | Field Strength of Spurious Radiation (TX) | 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 |

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4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

Max ERP/EIRP measurement result:

| | dBm | | W |
|----------------|-------|------|-------|
| GSM 850 Band | 32.03 | ERP | 1.596 |
| GSM 1900 Band | 25.15 | EIRP | 0.327 |
| EDGE 850 Band | 28.61 | ERP | 0.726 |
| EDGE 1900 Band | 24.90 | EIRP | 0.309 |
| WCDMA Band II | 25.38 | EIRP | 0.345 |
| HSDPA Band II | 22.66 | EIRP | 0.185 |
| WCDMA Band V | 27.73 | ERP | 0.593 |
| HSDPA Band V | 26.15 | ERP | 0.412 |

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5 RF POWER OUTPUT MEASUREMENT

5.1 Standard Applicable

According to FCC §2.1046.

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

FCC 24.232(c) Peak Power Measurement.

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

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

Maximum Output Powers for HSUPA

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

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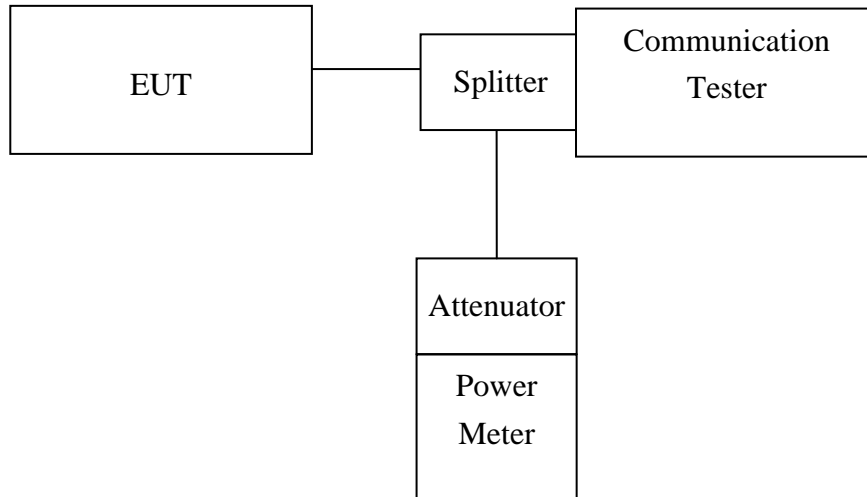
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5.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3 Measurement Procedure

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

5.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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5.5 Measurement Result:

5.5.1 RF Conducted Output Power

5.5.1.1.: GSM/EDGE (GMSK; 8-PSK)

| EUT Mode | Frequency (MHz) | CH | Peak Power (1TS) (dBm) | Peak Power (2TS) (dBm) | Peak Power (3TS) (dBm) | Peak Power (4TS) (dBm) |
|----------|-----------------|-----|------------------------|------------------------|------------------------|------------------------|
| GPRS 850 | 824.2 | 128 | 33.30 | 33.20 | 31.40 | 29.40 |
| | 836.6 | 190 | 33.40 | 33.30 | 31.50 | 29.50 |
| | 848.8 | 251 | 33.40 | 33.30 | 31.60 | 29.50 |

| EUT Mode | Frequency (MHz) | CH | Average Power (1TS) (dBm) | Average Power (2TS) (dBm) | Average Power (3TS) (dBm) | Average Power (4TS) (dBm) |
|----------|-----------------|-----|---------------------------|---------------------------|---------------------------|---------------------------|
| GPRS 850 | 824.2 | 128 | 33.10 | 33.10 | 31.30 | 29.20 |
| | 836.6 | 190 | 33.20 | 33.10 | 31.40 | 29.30 |
| | 848.8 | 251 | 33.30 | 33.20 | 31.50 | 29.40 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (1TS) (dBm) | Peak Power (2TS) (dBm) | Peak Power (3TS) (dBm) | Peak Power (4TS) (dBm) |
|----------|-----------------|-----|------------------------|------------------------|------------------------|------------------------|
| EDGE 850 | 824.2 | 128 | 30.30 | 30.20 | 28.70 | 26.70 |
| | 836.6 | 190 | 30.40 | 30.40 | 28.80 | 26.80 |
| | 848.8 | 251 | 30.50 | 30.50 | 28.90 | 26.80 |

| EUT Mode | Frequency (MHz) | CH | Average Power (1TS) (dBm) | Average Power (2TS) (dBm) | Average Power (3TS) (dBm) | Average Power (4TS) (dBm) |
|----------|-----------------|-----|---------------------------|---------------------------|---------------------------|---------------------------|
| EDGE 850 | 824.2 | 128 | 27.10 | 27.00 | 25.50 | 23.40 |
| | 836.6 | 190 | 27.20 | 27.10 | 25.60 | 23.50 |
| | 848.8 | 251 | 27.30 | 27.20 | 25.70 | 23.60 |

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| EUT Mode | Frequency (MHz) | CH | Peak Power (1TS) (dBm) | Peak Power (2TS) (dBm) | Peak Power (3TS) (dBm) | Peak Power (4TS) (dBm) |
|-----------|-----------------|-----|------------------------|------------------------|------------------------|------------------------|
| GPRS 1900 | 1850.2 | 512 | 30.80 | 30.70 | 28.80 | 26.60 |
| | 1880.0 | 661 | 30.60 | 30.50 | 28.40 | 26.40 |
| | 1909.8 | 810 | 30.20 | 30.10 | 28.30 | 26.30 |

| EUT Mode | Frequency (MHz) | CH | Average Power (1TS) (dBm) | Average Power (2TS) (dBm) | Average Power (3TS) (dBm) | Average Power (4TS) (dBm) |
|-----------|-----------------|-----|---------------------------|---------------------------|---------------------------|---------------------------|
| GPRS 1900 | 1850.2 | 512 | 30.70 | 30.50 | 28.60 | 26.50 |
| | 1880.0 | 661 | 30.50 | 30.40 | 28.20 | 26.20 |
| | 1909.8 | 810 | 30.10 | 21.90 | 28.20 | 26.20 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (1TS) (dBm) | Peak Power (2TS) (dBm) | Peak Power (3TS) (dBm) | Peak Power (4TS) (dBm) |
|-----------|-----------------|-----|------------------------|------------------------|------------------------|------------------------|
| EDGE 1900 | 1850.2 | 512 | 29.80 | 29.70 | 28.10 | 26.00 |
| | 1880.0 | 661 | 29.50 | 29.40 | 27.70 | 25.70 |
| | 1909.8 | 810 | 29.40 | 29.30 | 27.60 | 25.60 |

| EUT Mode | Frequency (MHz) | CH | Average Power (1TS) (dBm) | Average Power (2TS) (dBm) | Average Power (3TS) (dBm) | Average Power (4TS) (dBm) |
|-----------|-----------------|-----|---------------------------|---------------------------|---------------------------|---------------------------|
| EDGE 1900 | 1850.2 | 512 | 26.50 | 26.40 | 24.90 | 22.70 |
| | 1880.0 | 661 | 26.20 | 26.10 | 24.50 | 22.50 |
| | 1909.8 | 810 | 26.10 | 26.10 | 24.50 | 22.40 |

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5.5.1.2 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.

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) |
|------------------|--------------------|------|---------------------|---------------------|
| WCDMA Band II | 1852.4 | 9262 | 26.09 | 23.09 |
| | 1880.0 | 9400 | 26.03 | 23.15 |
| | 1907.6 | 9538 | 25.73 | 23.16 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) |
|-----------------|--------------------|------|---------------------|---------------------|
| WCDMA Band V | 826.4 | 4132 | 26.57 | 23.40 |
| | 836.6 | 4183 | 26.27 | 23.28 |
| | 846.6 | 4233 | 26.53 | 23.27 |

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

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5.5.1.3 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 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 | Transmitter Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|-----------|----------|------------------------------------|-------|-------|-------------------------------------|----------|
| | | 9262 | 9400 | 9538 | | |
| HSDPA(B2) | 1 | 23.26 | 23.04 | 23.02 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 22.97 | 23.01 | 23.01 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 22.78 | 22.59 | 22.49 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 22.85 | 22.60 | 22.61 | 19.8dBm – 25.7dBm | Pass |

Results:

| Mode | Sub-test | Transmitter Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|-----------|----------|------------------------------------|-------|-------|-------------------------------------|----------|
| | | 4132 | 4183 | 4233 | | |
| HSDPA(B5) | 1 | 23.36 | 23.29 | 23.59 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 23.50 | 23.32 | 23.34 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 22.90 | 22.81 | 23.10 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 22.95 | 22.85 | 23.16 | 19.8dBm – 25.7dBm | Pass |

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

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

Results:

N/A, EUT does not support HSUPA.

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5.5.2 Maximum Power Reduction: PCS1900 band

| | | | | | | | | | | |
|--------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| PCL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Output power (dBm) | 30.7 | 30.7 | 30.7 | 30.7 | 28.9 | 26.3 | 24.8 | 22.8 | 20.8 | |
| PCL | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| Output power (dBm) | 18.8 | 16.8 | 14.8 | 12.8 | 10.8 | 8.8 | 6.8 | 4.9 | 2.9 | 0.8 |

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

WCDMA/HSDPA band II, V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 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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6 ERP, EIRP MEASUREMENT

6.1 Standard Applicable

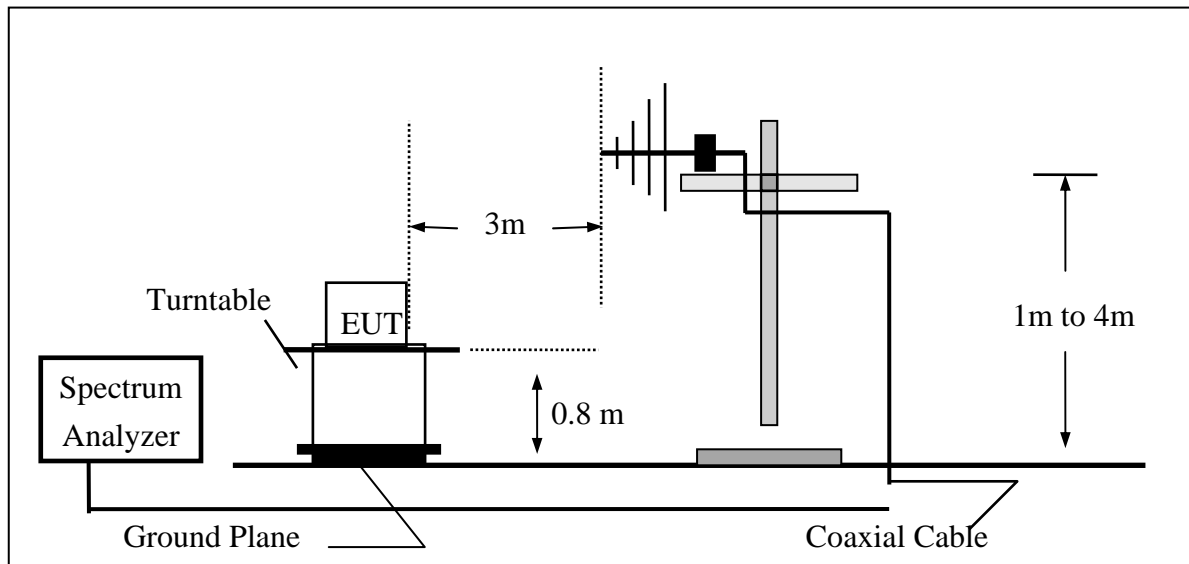
According to FCC §2.1046

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

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

6.2 Test SET-UP (Block Diagram of Configuration)

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

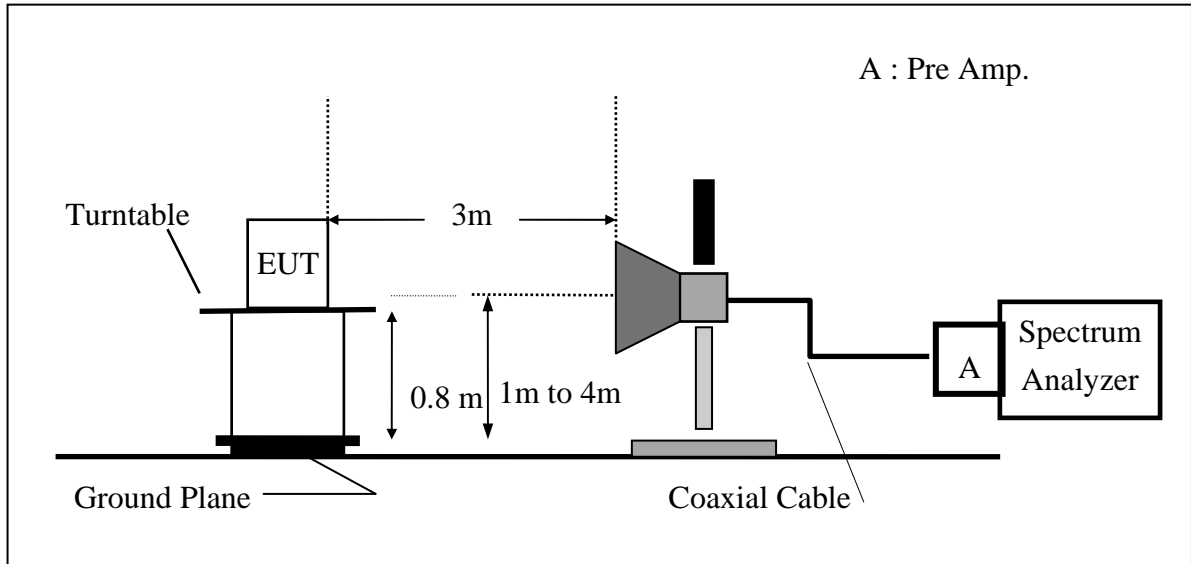


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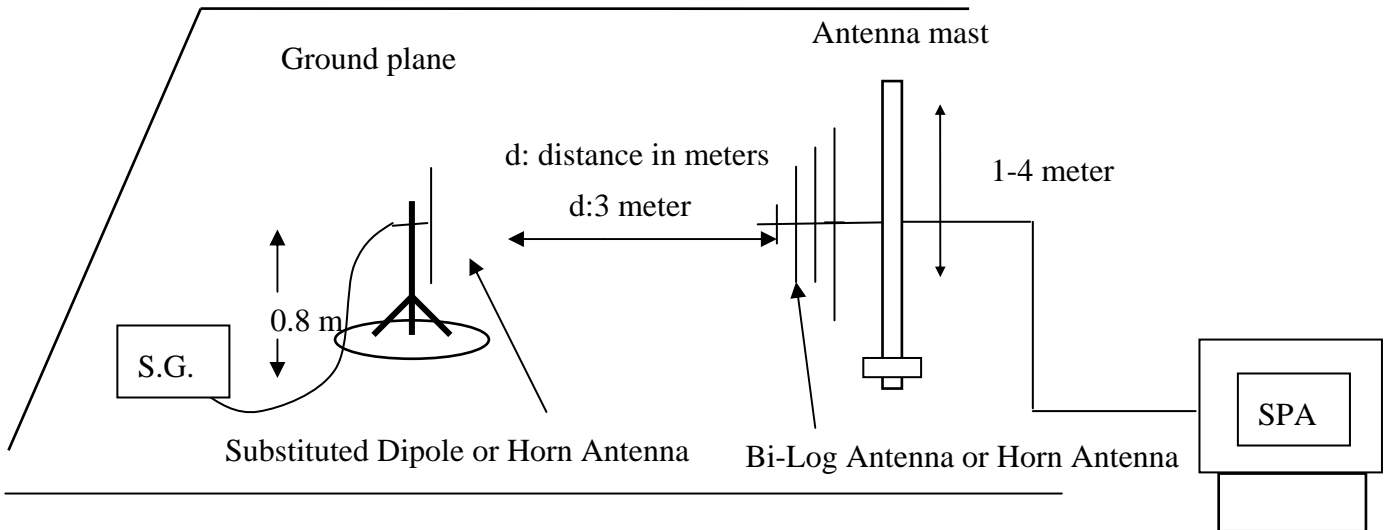
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3 Measurement Procedure

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

During the measurement, the EUT was 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 –850 MHz 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 –1910MHz 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:

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

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

6.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5 Measurement Result

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|---------------|-----------------|-----|--------------|--------------------|-------------------|--------------------|-----------------|-----------|-------------|
| GSM 850 (1TS) | 824.20 | 128 | V | 120.33 | 33.94 | -7.87 | 3.62 | 22.44 | 38.45 |
| | | | H | 129.62 | 43.35 | -7.87 | 3.62 | 31.85 | 38.45 |
| | 836.60 | 190 | V | 121.76 | 35.51 | -7.88 | 3.65 | 23.98 | 38.45 |
| | | | H | 129.55 | 43.32 | -7.88 | 3.65 | 31.79 | 38.45 |
| | 848.80 | 251 | V | 122.56 | 36.44 | -7.88 | 3.68 | 24.88 | 38.45 |
| | | | H | 129.78 | 43.59 | -7.88 | 3.68 | 32.03 | 38.45 |

Remark :

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

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|----------------|-----------------|-----|--------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|
| GSM 1900 (1TS) | 1850.20 | 512 | V | 113.70 | 9.31 | 9.90 | 5.56 | 13.65 | 33.00 |
| | | | H | 124.99 | 20.81 | 9.90 | 5.56 | 25.15 | 33.00 |
| | 1880.00 | 661 | V | 113.19 | 8.83 | 9.99 | 5.61 | 13.21 | 33.00 |
| | | | H | 124.64 | 20.50 | 9.99 | 5.61 | 24.87 | 33.00 |
| | 1909.80 | 810 | V | 115.85 | 11.52 | 10.08 | 5.66 | 15.94 | 33.00 |
| | | | H | 124.73 | 20.62 | 10.08 | 5.66 | 25.04 | 33.00 |

Remark :

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

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Measurement Result:

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|----------------|-----------------|-----|--------------|--------------------|-------------------|--------------------|-----------------|-----------|-------------|
| EDGE 850 (1TS) | 824.20 | 128 | V | 117.54 | 31.15 | -7.87 | 3.62 | 19.65 | 38.45 |
| | | | H | 126.20 | 39.93 | -7.87 | 3.62 | 28.43 | 38.45 |
| | 836.60 | 190 | V | 118.08 | 31.83 | -7.88 | 3.65 | 20.30 | 38.45 |
| | | | H | 126.11 | 39.88 | -7.88 | 3.65 | 28.35 | 38.45 |
| | 848.80 | 251 | V | 116.13 | 30.01 | -7.88 | 3.68 | 18.45 | 38.45 |
| | | | H | 126.36 | 40.17 | -7.88 | 3.68 | 28.61 | 38.45 |

Remark :

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

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|-----------------|-----------------|-----|--------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|
| EDGE 1900 (1TS) | 1850.20 | 512 | V | 111.44 | 7.05 | 9.90 | 5.56 | 11.39 | 33.00 |
| | | | H | 124.74 | 20.56 | 9.90 | 5.56 | 24.90 | 33.00 |
| | 1880.00 | 661 | V | 110.72 | 6.36 | 9.99 | 5.61 | 10.74 | 33.00 |
| | | | H | 124.26 | 20.12 | 9.99 | 5.61 | 24.49 | 33.00 |
| | 1909.80 | 810 | V | 111.59 | 7.26 | 10.08 | 5.66 | 11.68 | 33.00 |
| | | | H | 124.42 | 20.31 | 10.08 | 5.66 | 24.73 | 33.00 |

Remark :

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

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Measurement Result:

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|----------|-----------------|------|--------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|
| WCDMA II | 1852.40 | 9262 | V | 112.49 | 7.97 | 9.48 | 5.33 | 12.11 | 33.00 |
| | | | H | 125.57 | 21.24 | 9.48 | 5.33 | 25.38 | 33.00 |
| | 1880.00 | 9400 | V | 110.90 | 6.40 | 9.54 | 5.36 | 10.57 | 33.00 |
| | | | H | 123.59 | 19.28 | 9.54 | 5.36 | 23.45 | 33.00 |
| | 1907.60 | 9538 | V | 110.63 | 6.15 | 9.61 | 5.40 | 10.35 | 33.00 |
| | | | H | 124.67 | 20.38 | 9.61 | 5.40 | 24.59 | 33.00 |

Remark:

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

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|----------|-----------------|------|--------------|--------------------|-------------------|--------------------|-----------------|-----------|-------------|
| WCDMA V | 826.40 | 4132 | V | 115.27 | 28.91 | -7.88 | 3.63 | 17.40 | 38.45 |
| | | | H | 125.49 | 39.23 | -7.88 | 3.63 | 27.73 | 38.45 |
| | 836.60 | 4183 | V | 114.05 | 27.79 | -7.88 | 3.65 | 16.26 | 38.45 |
| | | | H | 123.93 | 37.70 | -7.88 | 3.65 | 26.17 | 38.45 |
| | 846.60 | 4233 | V | 115.18 | 29.03 | -7.88 | 3.67 | 17.48 | 38.45 |
| | | | H | 124.81 | 38.61 | -7.88 | 3.67 | 27.06 | 38.45 |

Remark:

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

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Measurement Result:

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|----------|-----------------|------|--------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|
| HSDPA II | 1852.40 | 9262 | V | 106.28 | 1.90 | 9.90 | 5.56 | 6.23 | 33.00 |
| | | | H | 121.82 | 17.64 | 9.90 | 5.56 | 21.98 | 33.00 |
| | 1880.00 | 9400 | V | 108.68 | 4.32 | 9.99 | 5.61 | 8.70 | 33.00 |
| | | | H | 121.07 | 16.93 | 9.99 | 5.61 | 21.30 | 33.00 |
| | 1907.60 | 9538 | V | 108.68 | 4.35 | 10.07 | 5.66 | 8.76 | 33.00 |
| | | | H | 122.36 | 18.25 | 10.07 | 5.66 | 22.66 | 33.00 |

Remark:

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

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|----------|-----------------|------|--------------|--------------------|-------------------|--------------------|-----------------|-----------|-------------|
| HSDPA V | 826.40 | 4132 | V | 114.43 | 28.07 | -7.88 | 3.63 | 16.56 | 38.45 |
| | | | H | 123.91 | 37.65 | -7.88 | 3.63 | 26.15 | 38.45 |
| | 836.60 | 4183 | V | 113.69 | 27.43 | -7.88 | 3.65 | 15.90 | 38.45 |
| | | | H | 122.98 | 36.75 | -7.88 | 3.65 | 25.22 | 38.45 |
| | 846.60 | 4233 | V | 114.42 | 28.27 | -7.88 | 3.67 | 16.72 | 38.45 |
| | | | H | 123.44 | 37.24 | -7.88 | 3.67 | 25.69 | 38.45 |

Remark:

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

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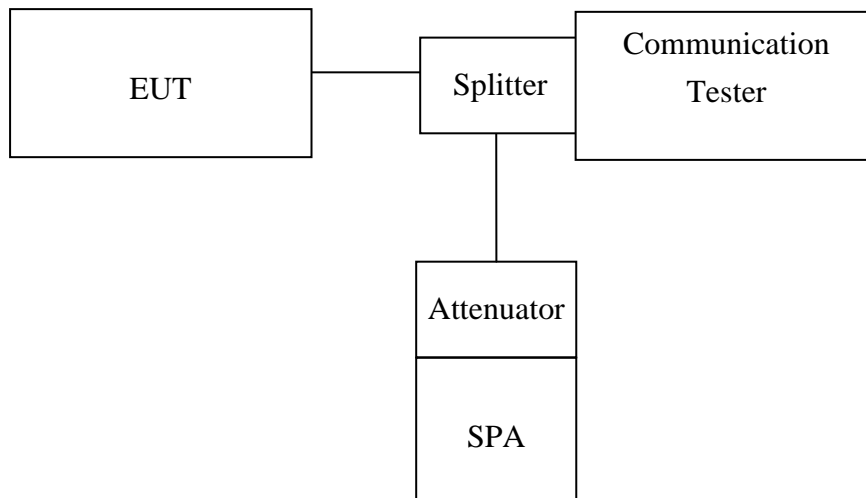
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7 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to FCC§2.1049(h).

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 Measurement Procedure

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

7.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5 Measurement Result:

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| GSM 850 | 824.20 | 128 | 0.2453 |
| | 836.60 | 190 | 0.2420 |
| | 848.80 | 251 | 0.2457 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| EDGE 850 | 824.20 | 128 | 0.2479 |
| | 836.60 | 190 | 0.2469 |
| | 848.80 | 251 | 0.2503 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| PCS 1900 | 1850.20 | 512 | 0.2464 |
| | 1880.00 | 661 | 0.2476 |
| | 1909.80 | 810 | 0.2455 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------|-----------------|-----|---------------------|
| EDGE 1900 | 1850.20 | 512 | 0.2450 |
| | 1880.00 | 661 | 0.2425 |
| | 1909.80 | 810 | 0.2451 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| WCDMA II | 1852.4 | 9262 | 4.1605 |
| | 1880.0 | 9400 | 4.1509 |
| | 1907.6 | 9538 | 4.1567 |

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| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| HSDPA II | 1852.4 | 9296 | 4.1638 |
| | 1880.0 | 9400 | 4.1432 |
| | 1907.6 | 9538 | 4.1747 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| WCDMA V | 826.4 | 4132 | 4.1589 |
| | 836.6 | 4183 | 4.1530 |
| | 846.6 | 4233 | 4.1497 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| HSDPA V | 826.40 | 4132 | 4.1576 |
| | 836.60 | 4183 | 4.1739 |
| | 846.60 | 4233 | 4.1554 |

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Figure 7-1: GSM Channel Low

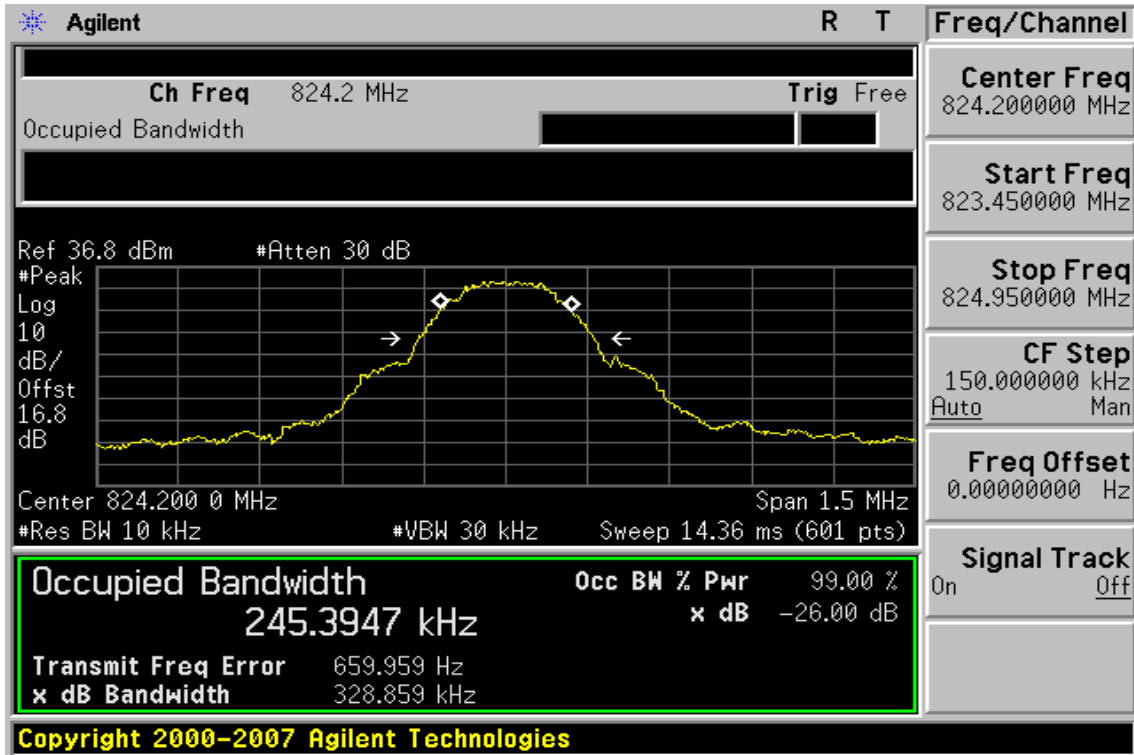
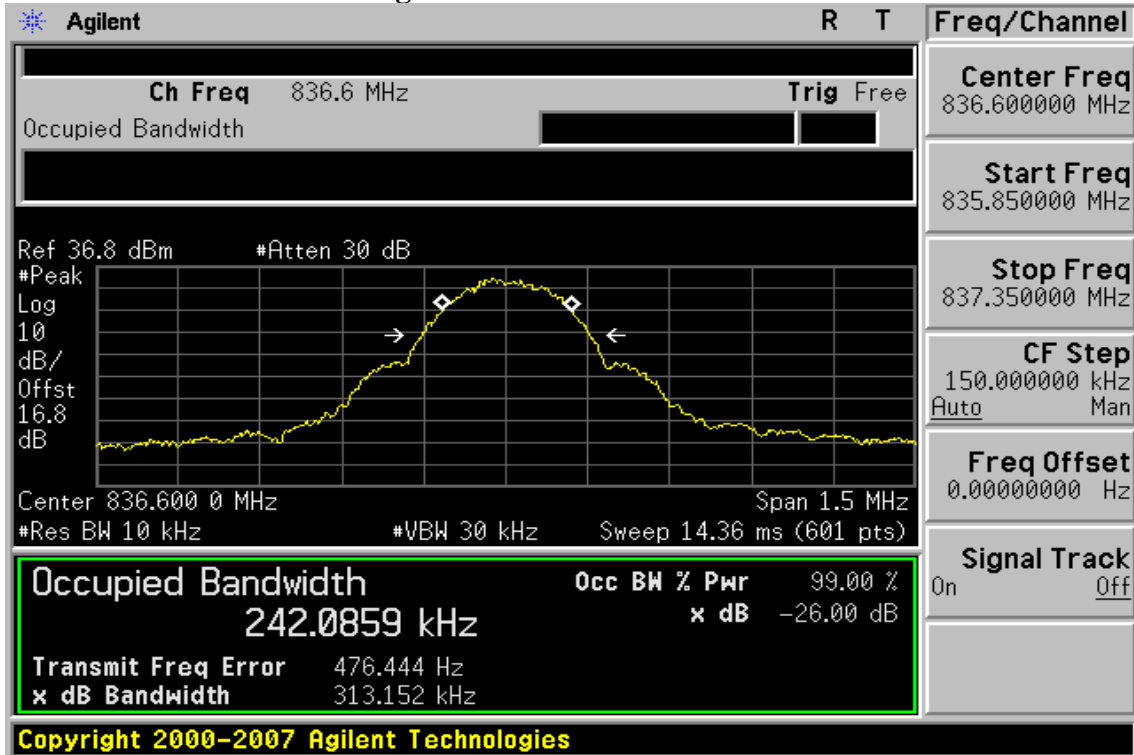


Figure 7-2 GSM Channel Mid



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Figure 7-3: GSM Channel High

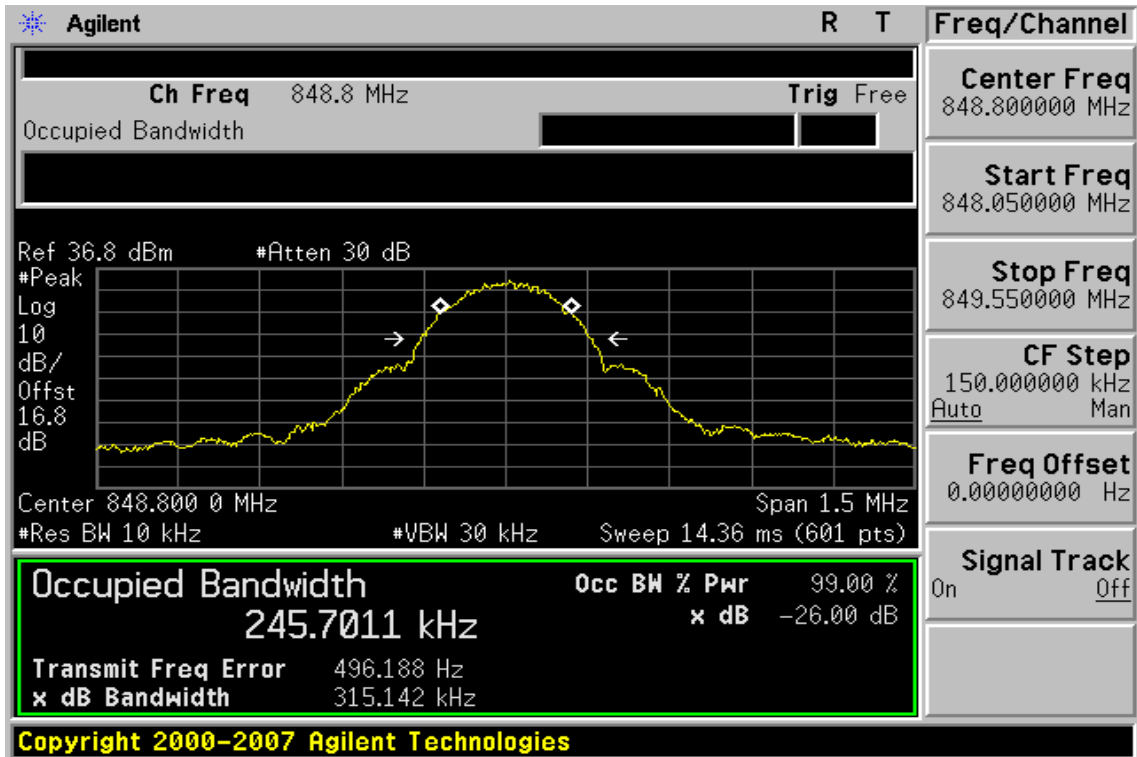
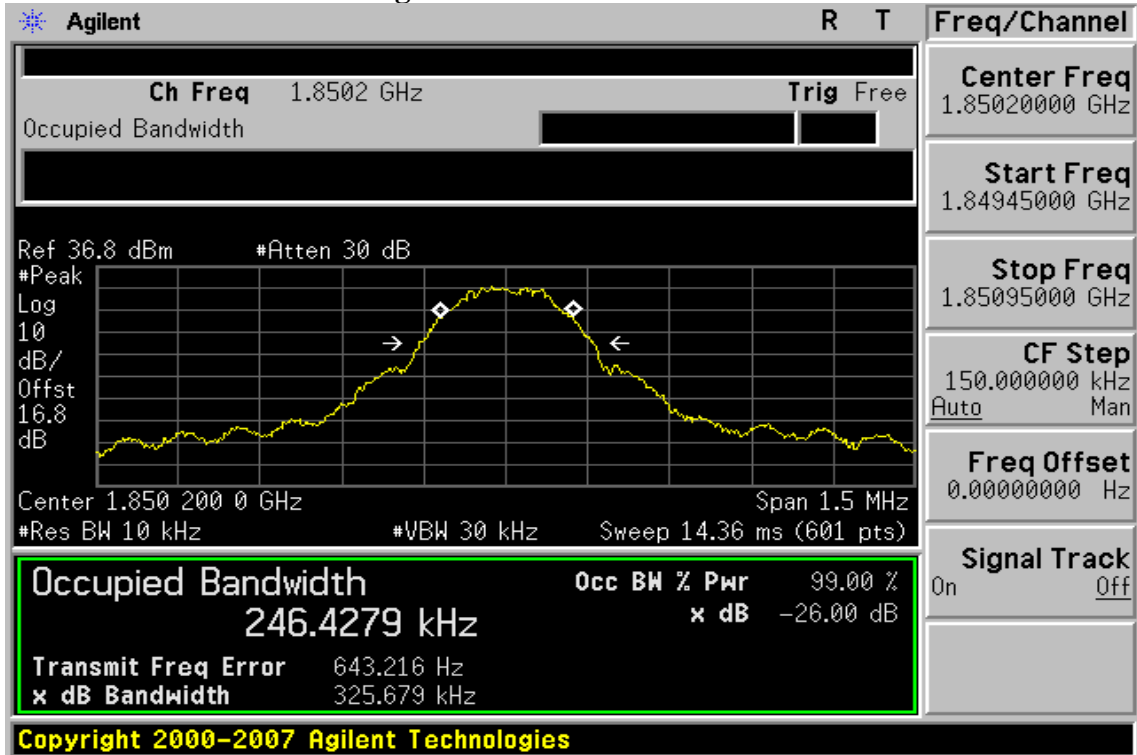


Figure 7-4: PCS Channel Low



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Figure 7-5 PCS Channel Mid

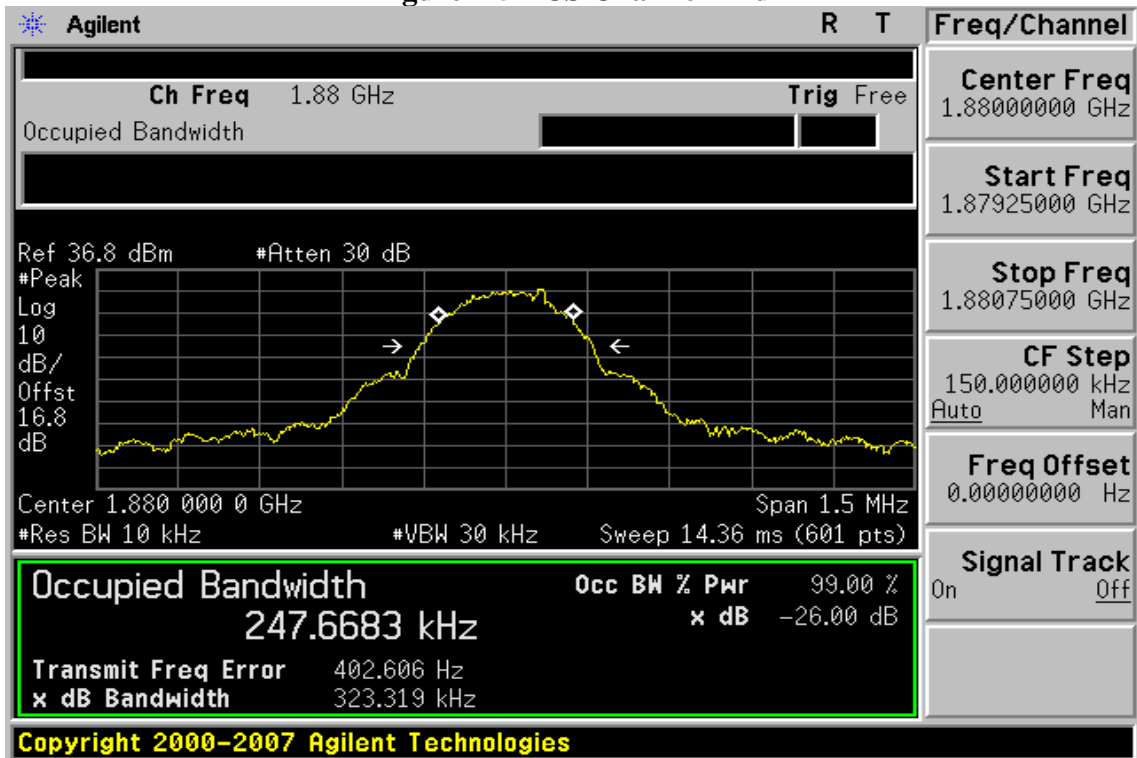
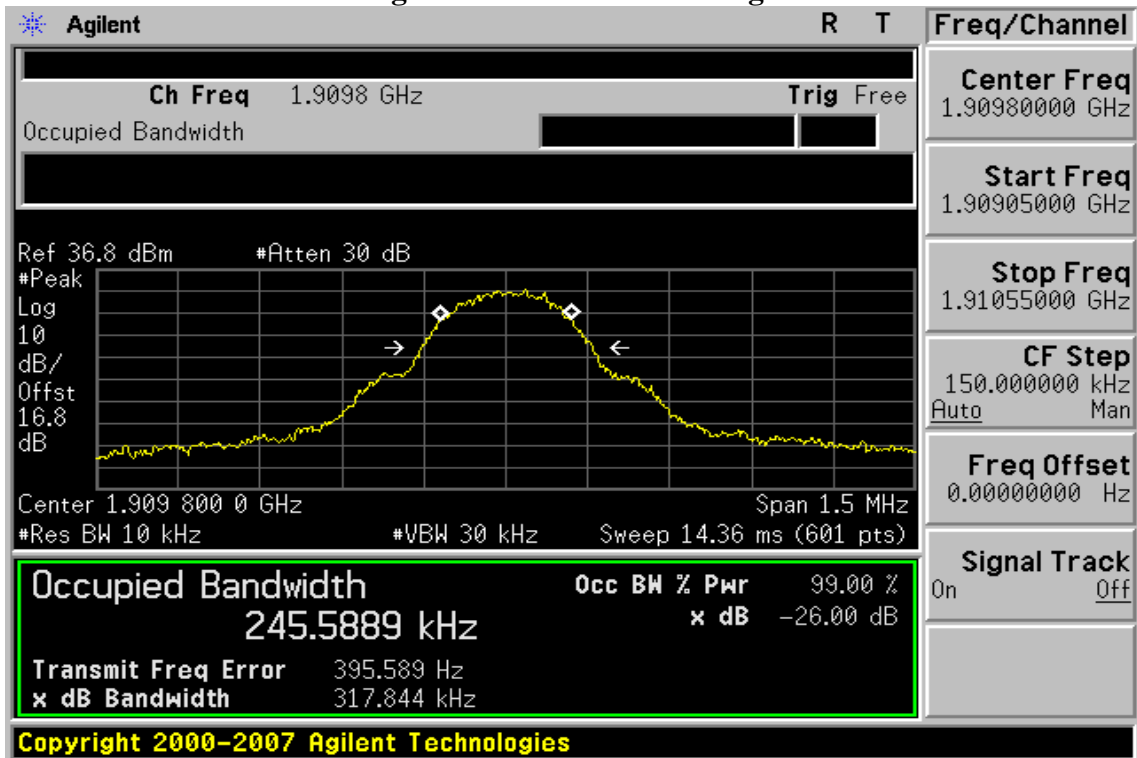


Figure 7-6: PCS Channel High



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Figure 7-7: EDGE 850 Channel Low

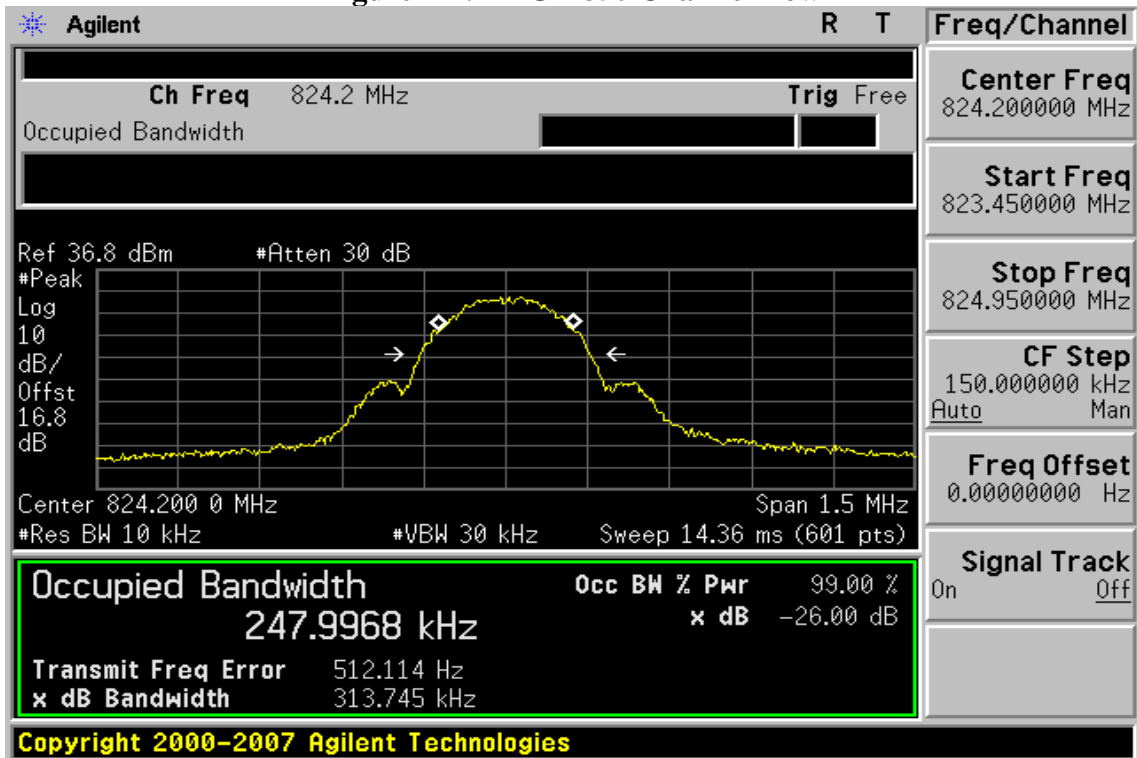
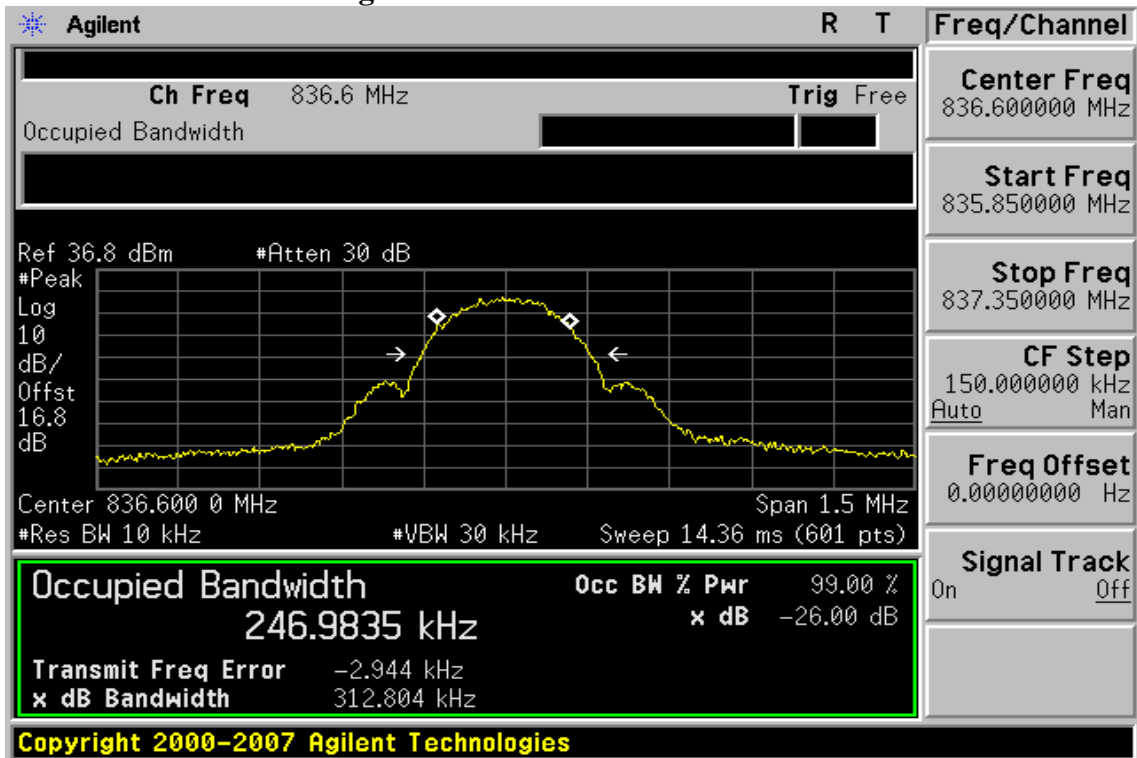


Figure 7-8 EDGE 850 Channel Mid



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Figure 7-9 EDGE 850 Channel High

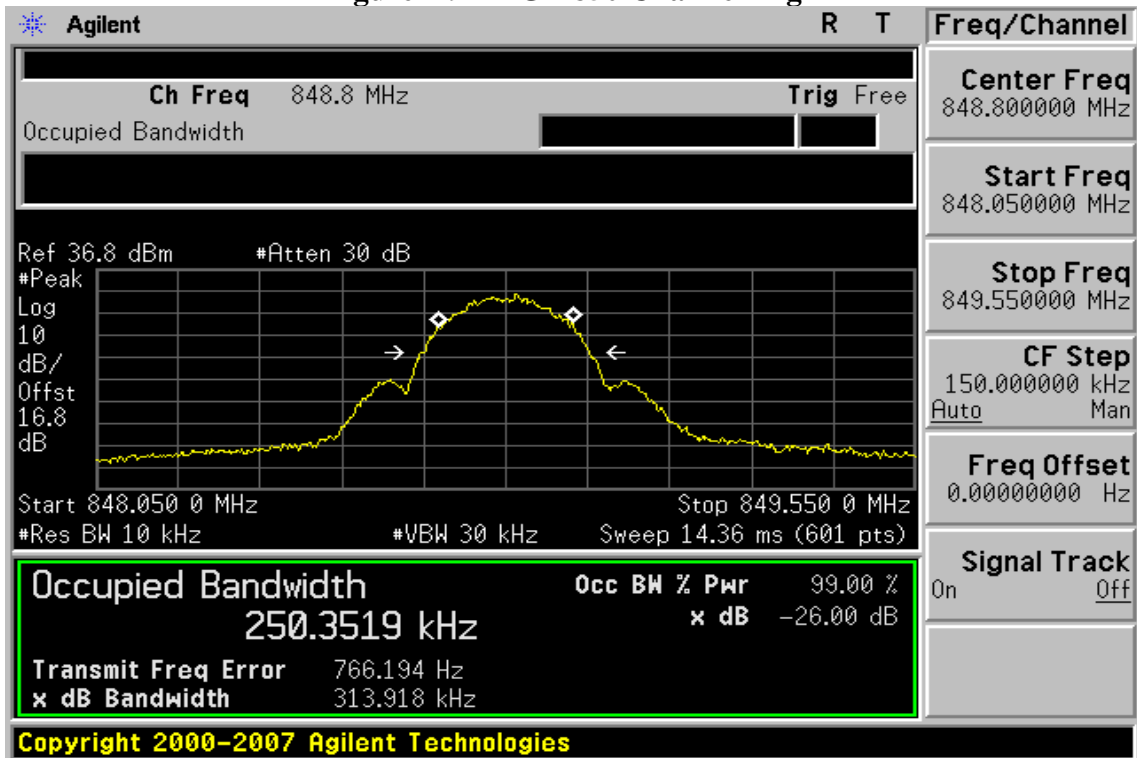
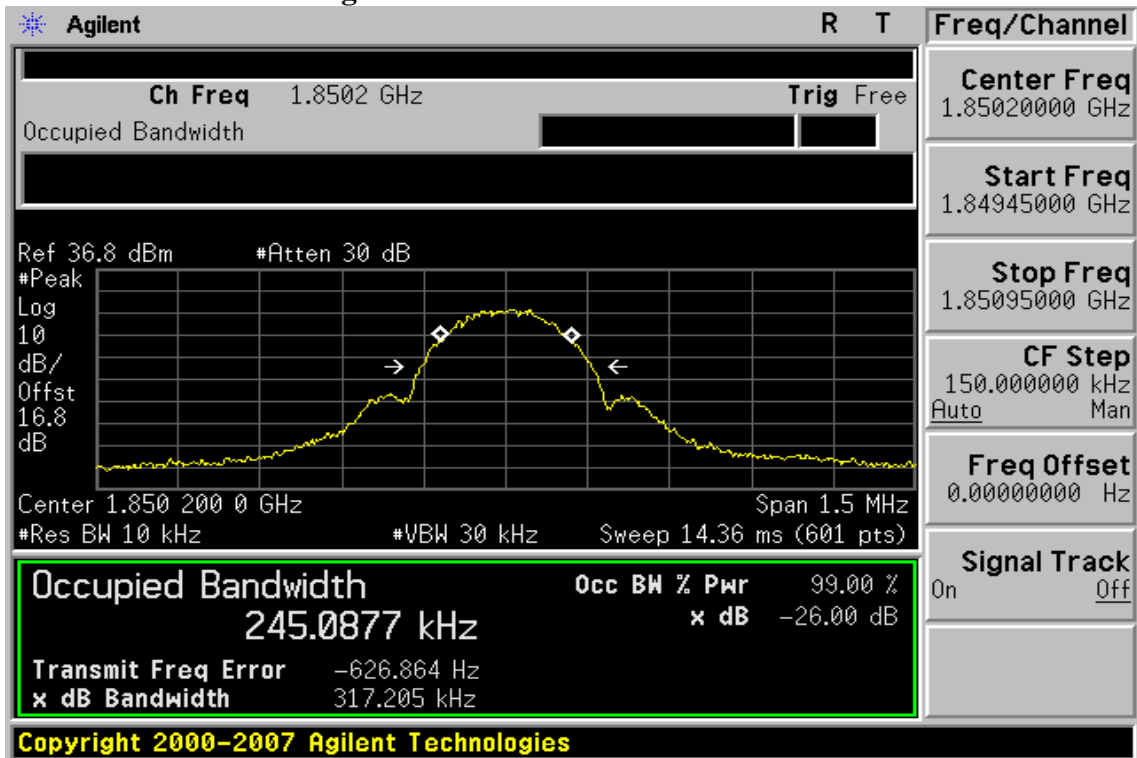


Figure 7-10 EDGE 1900 Channel Low



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Figure 7-11 EDGE 1900 Channel Mid

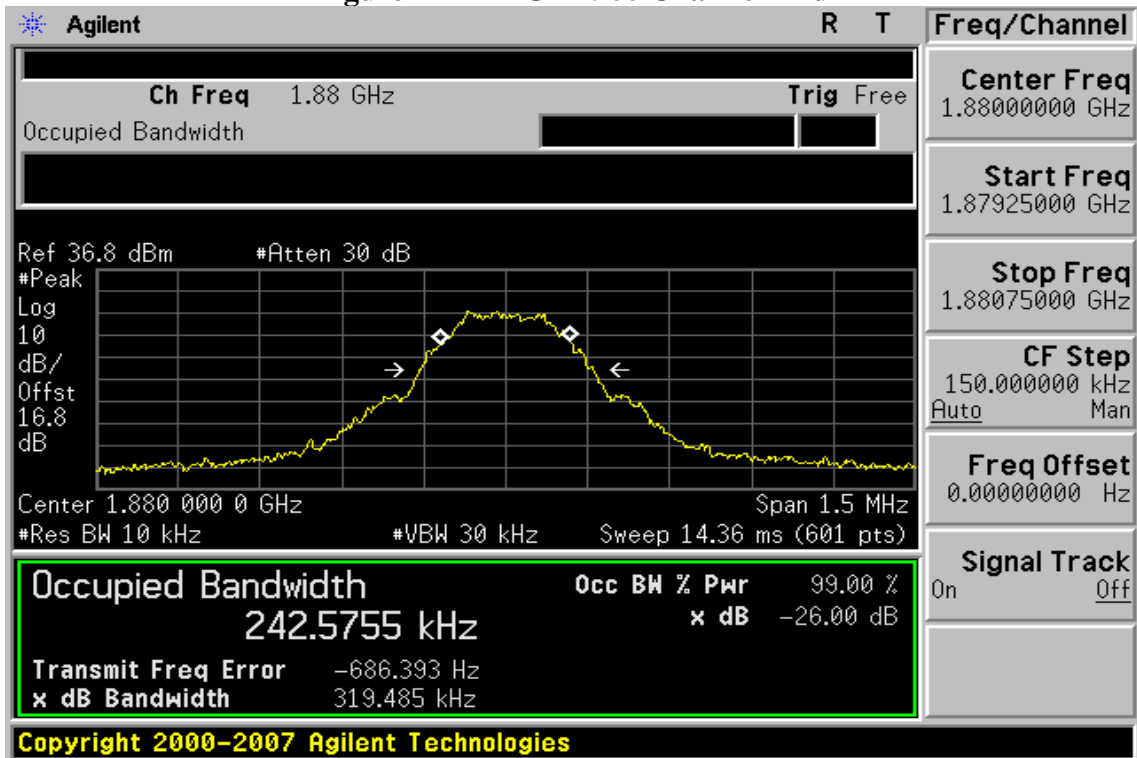
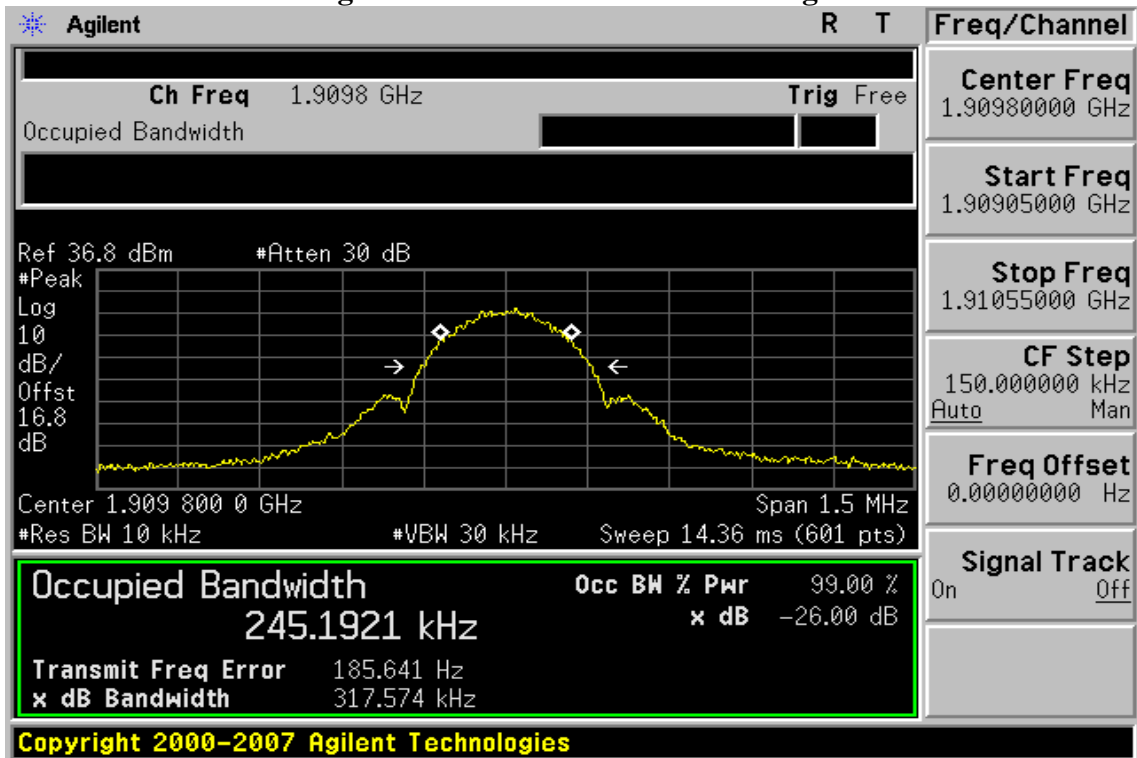


Figure 7-12 EDGE 1900 Channel High



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Figure 7-13 WCDMA II Channel Low

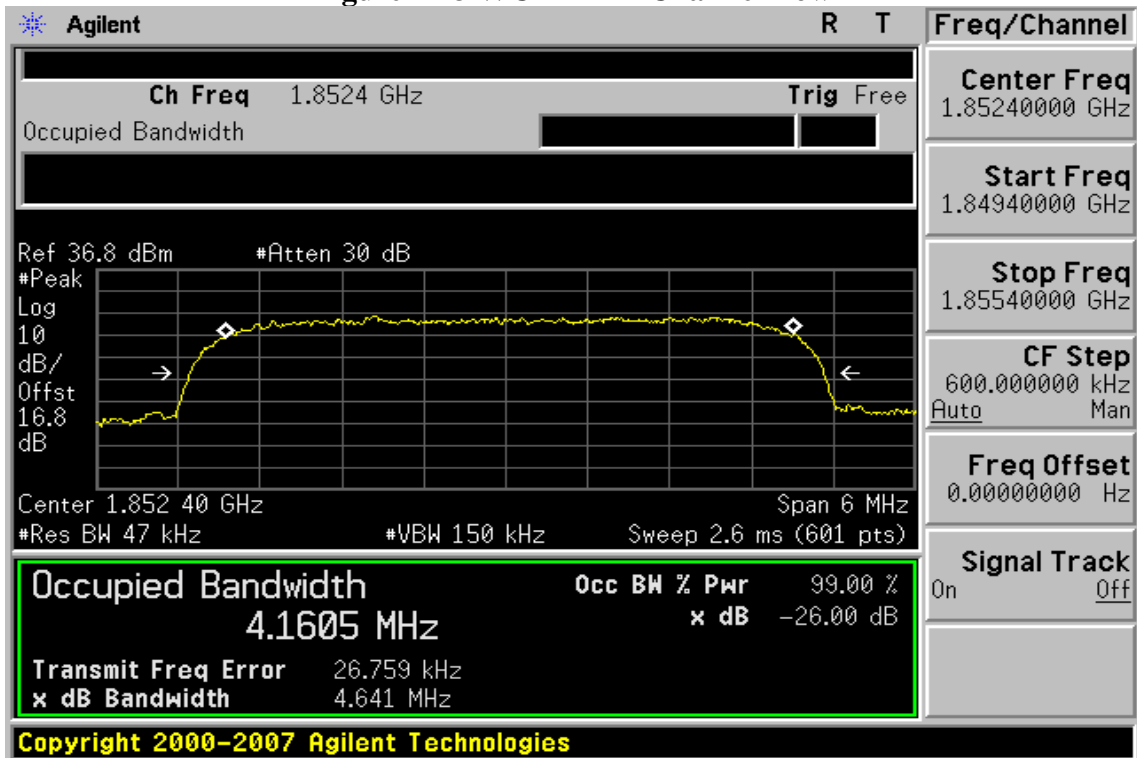
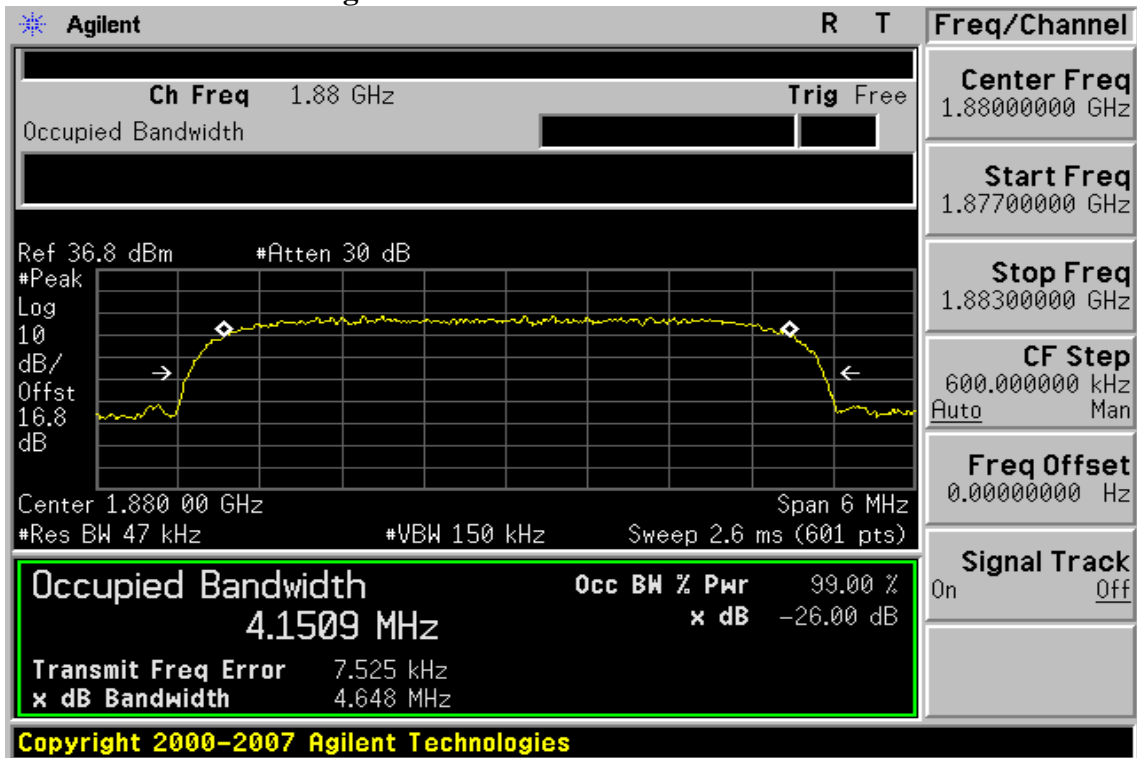


Figure 7-14 WCDMA II Channel Mid



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Figure 7-15 WCDMA II Channel High

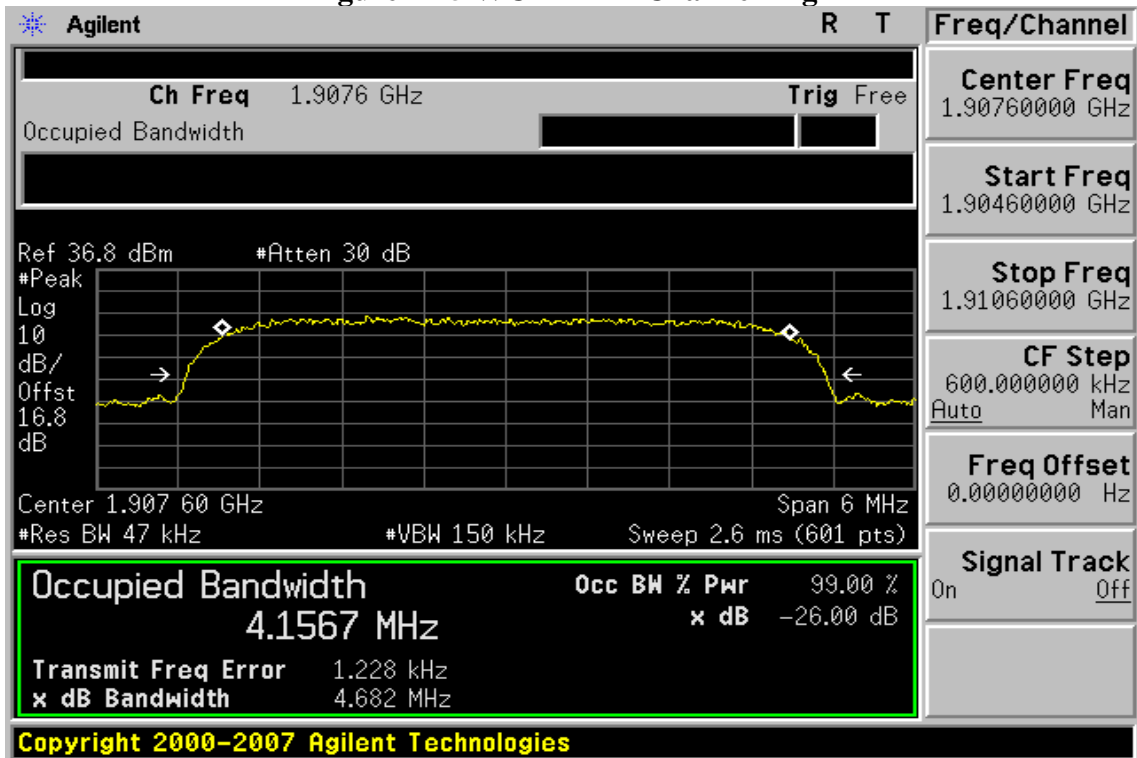
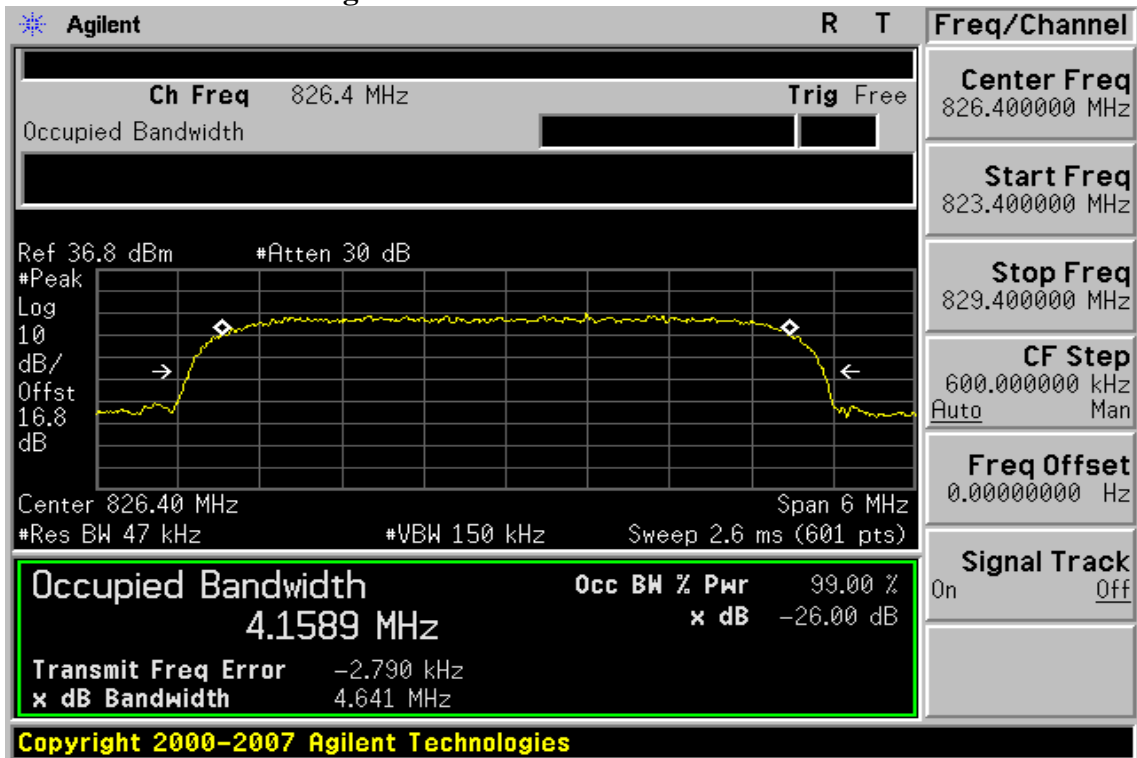


Figure 7-19 WCDMA V Channel Low



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Figure 7-20 WCDMA V Channel Mid

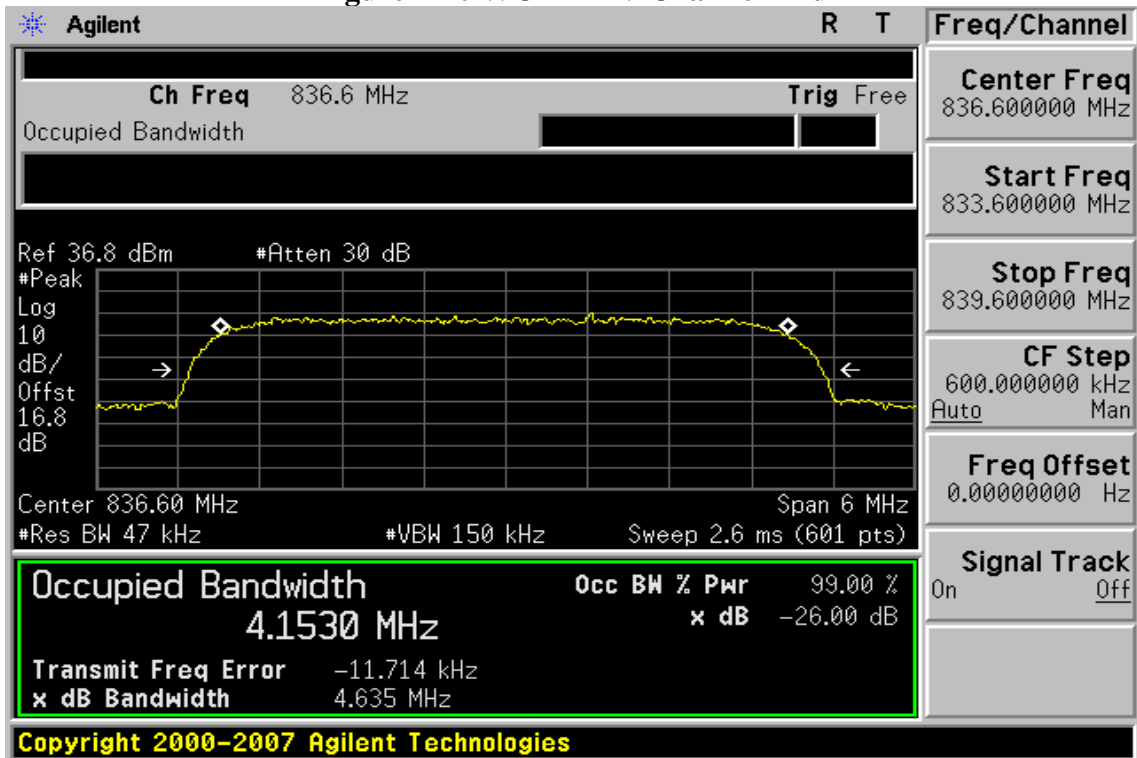
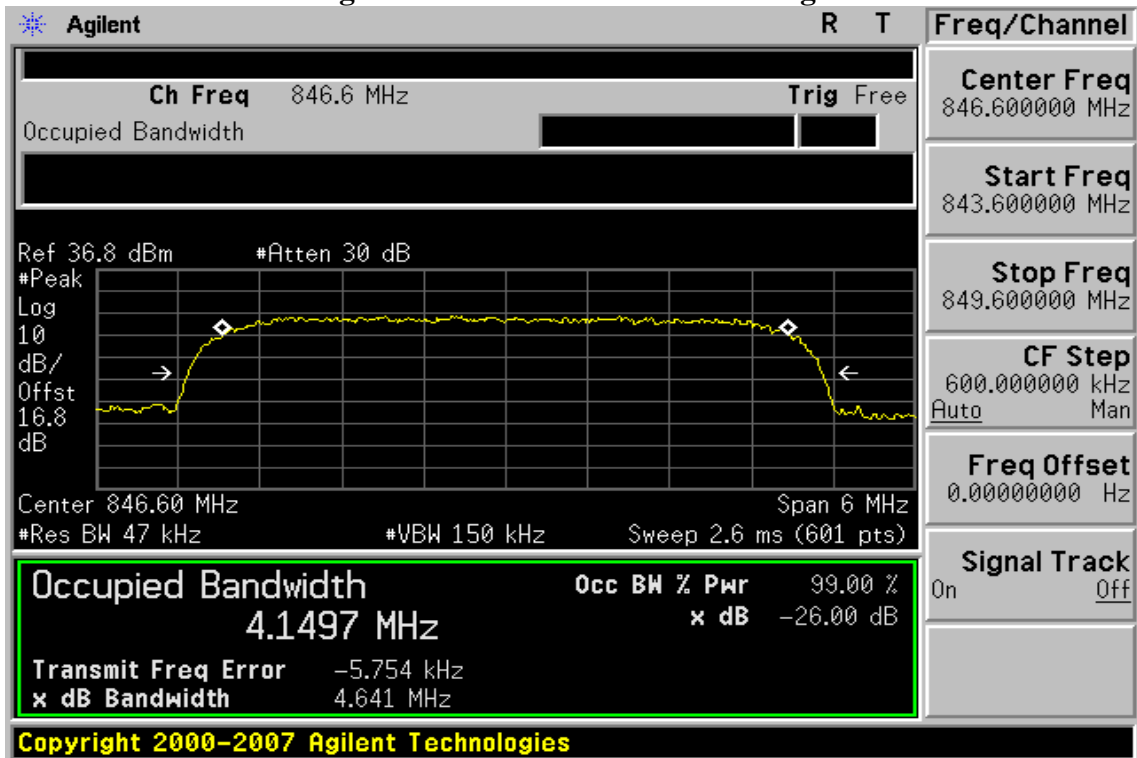


Figure 7-21 WCDMA V Channel High



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Figure 7-13 HSDPA II Channel Low

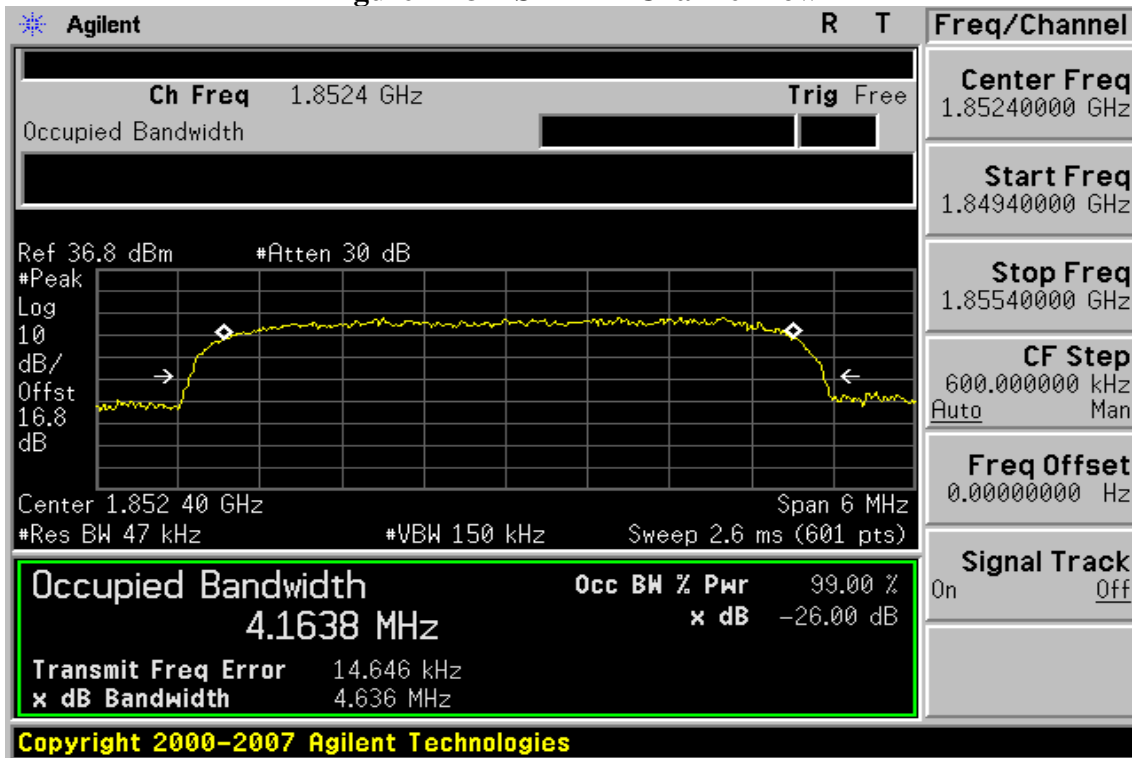
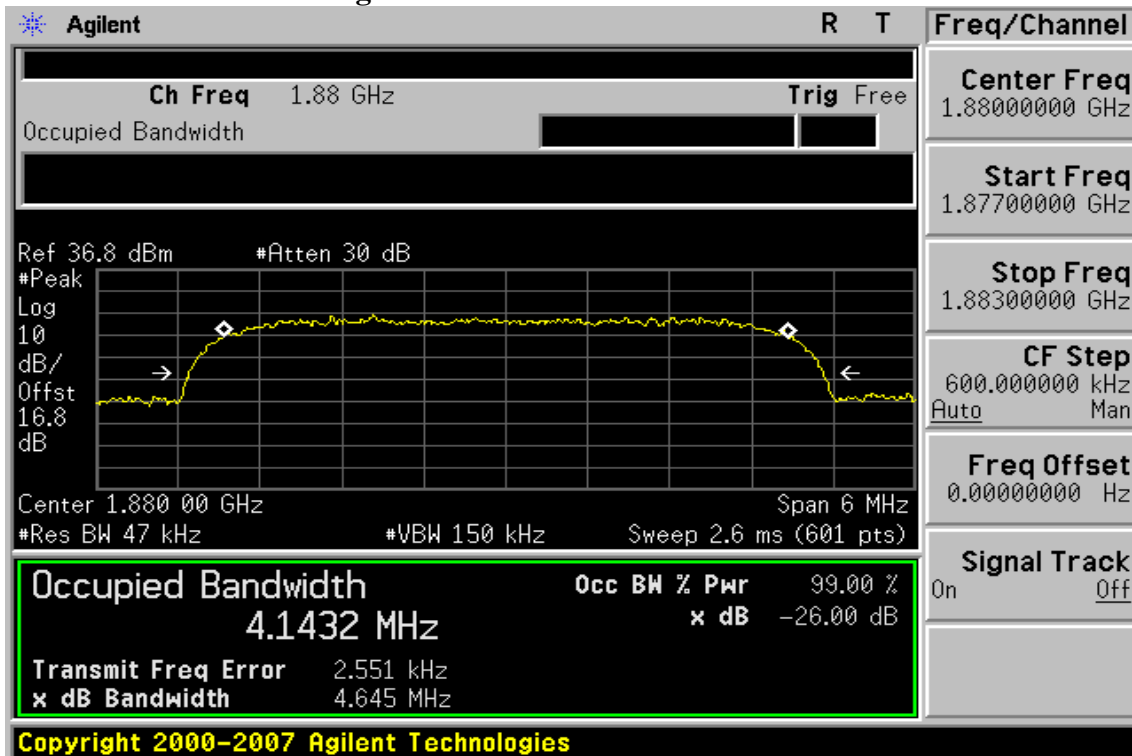


Figure 7-14 HSDPA II Channel Mid



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Figure 7-15 HSDPA II Channel High

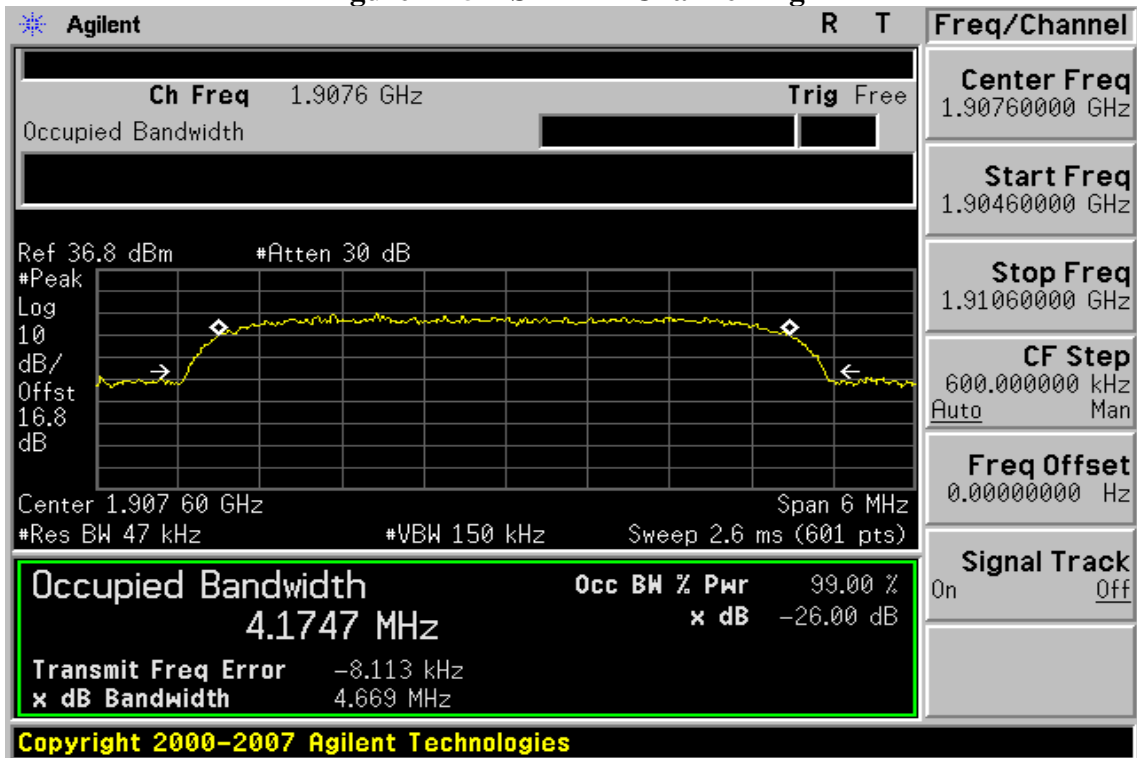
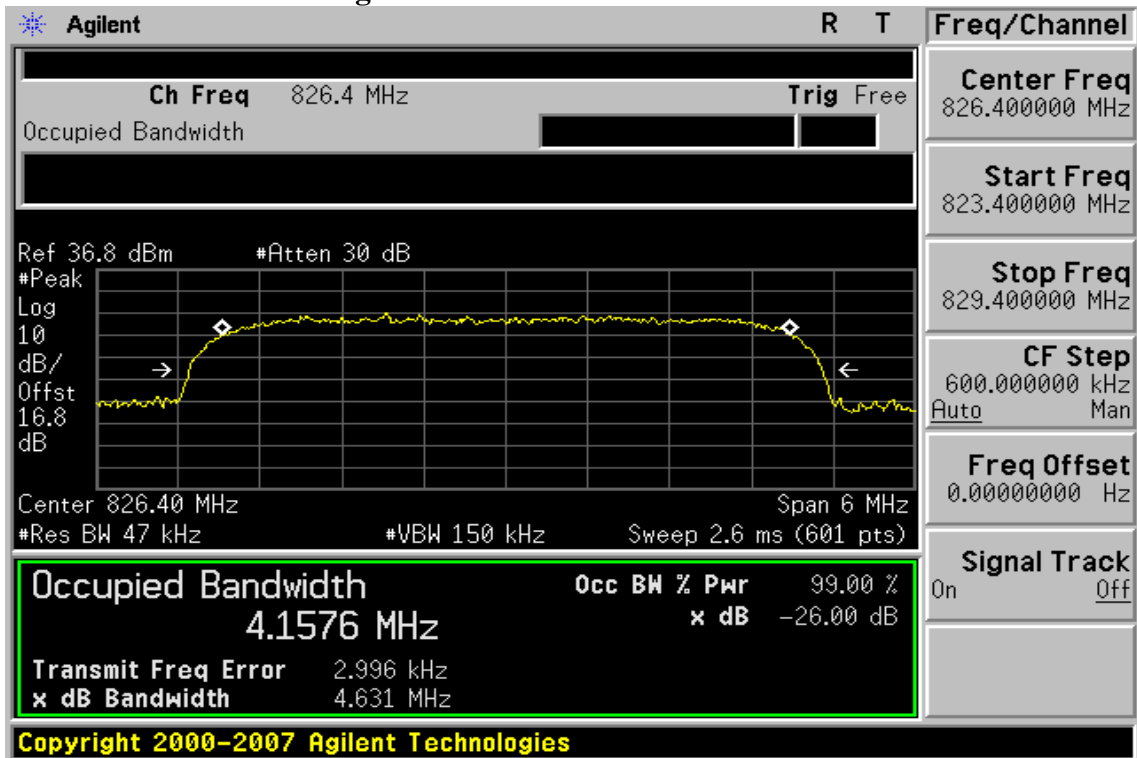


Figure 7-19 HSDPA V Channel Low



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Figure 7-20 HSDPA V Channel Mid

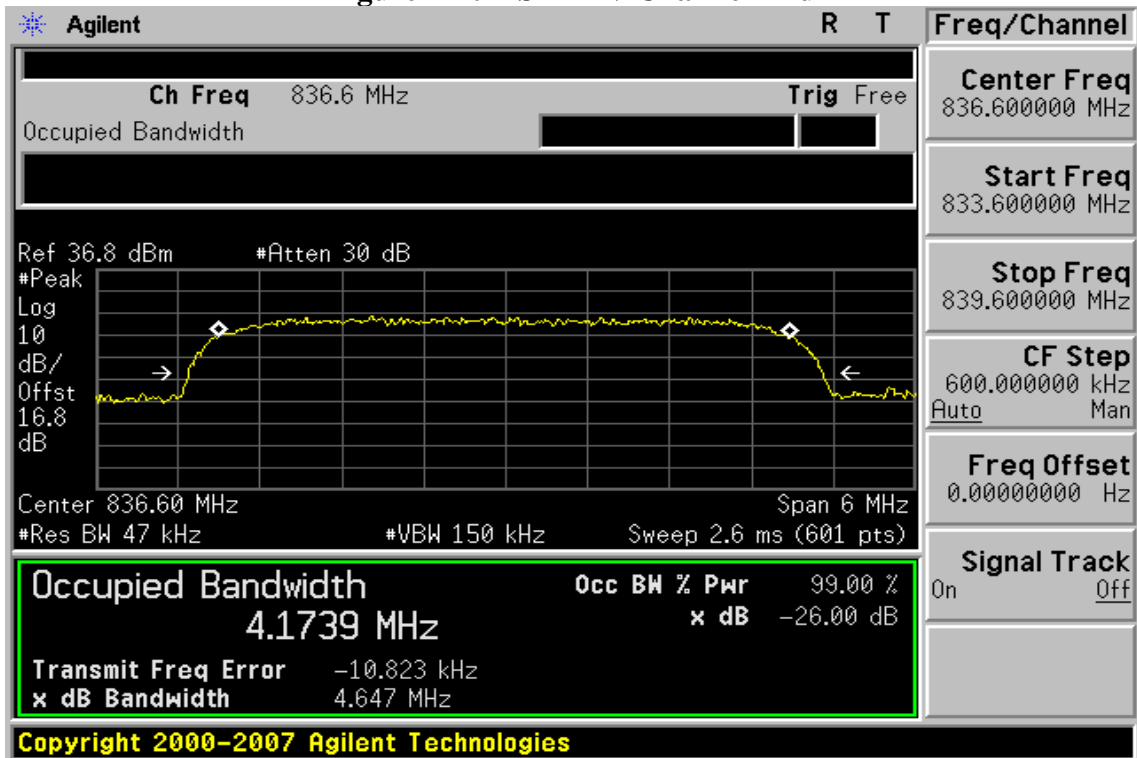
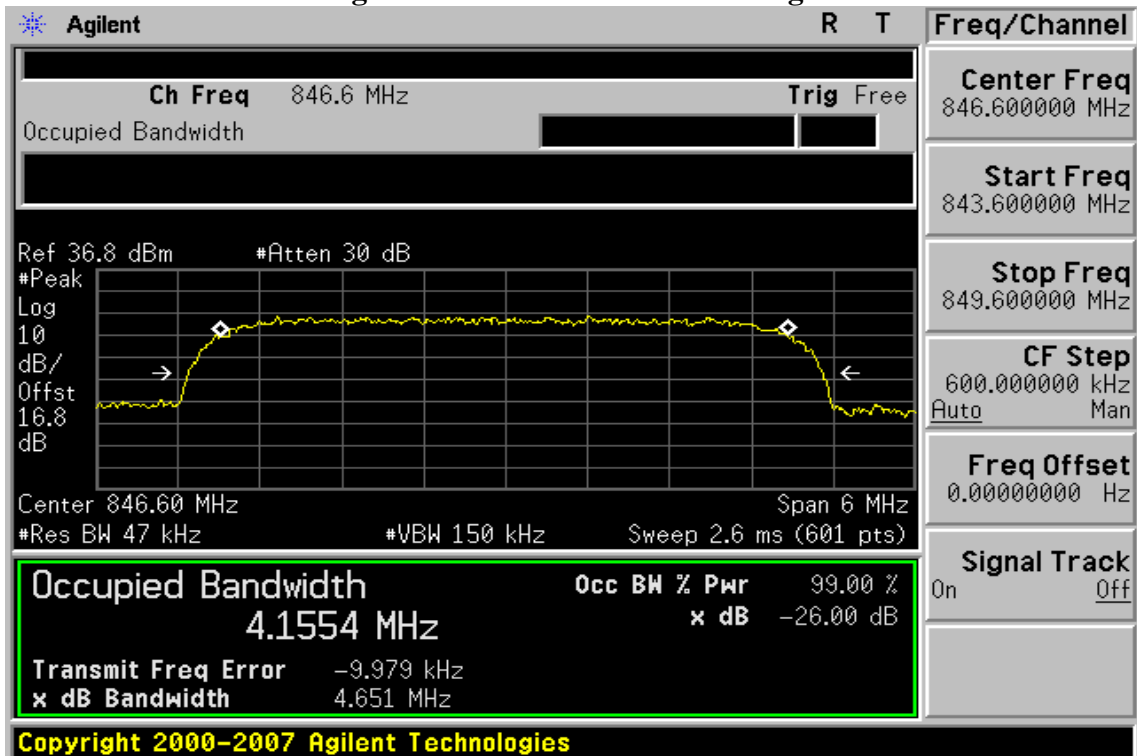


Figure 7-21 HSDPA V Channel High



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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

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

8.2 Test SET-UP

Refer to section 7.2 in this report

8.3 Measurement Procedure

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

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

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

8.4 Measurement Equipment Used:

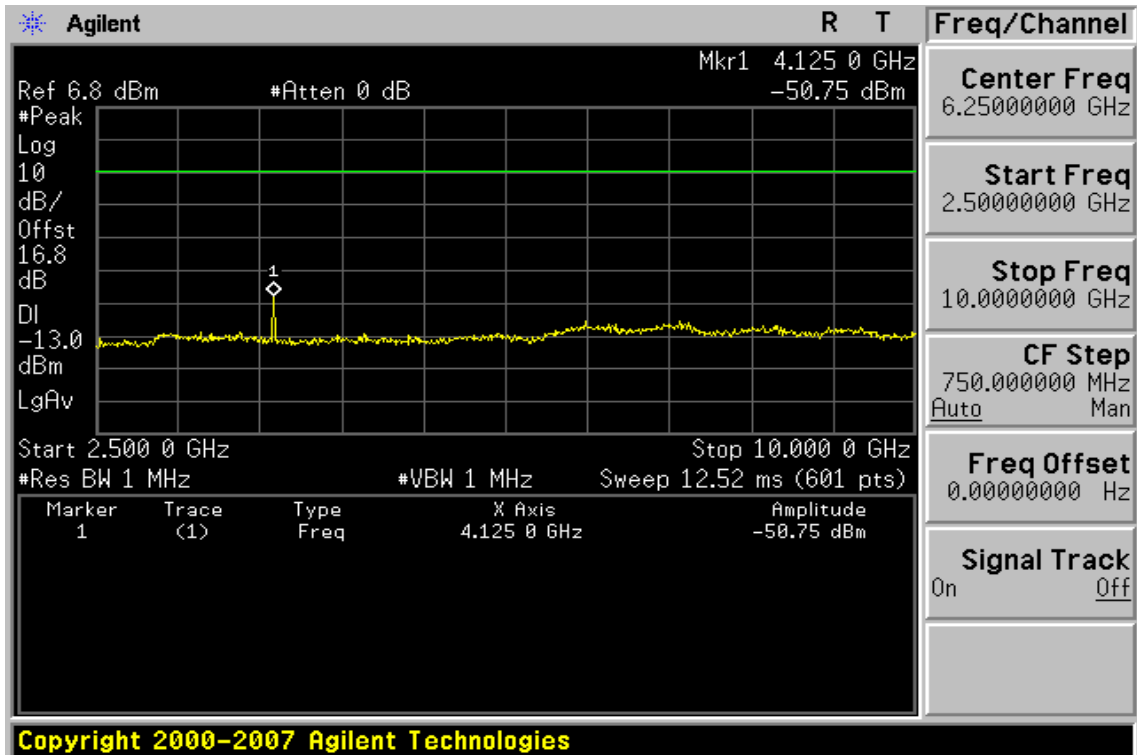
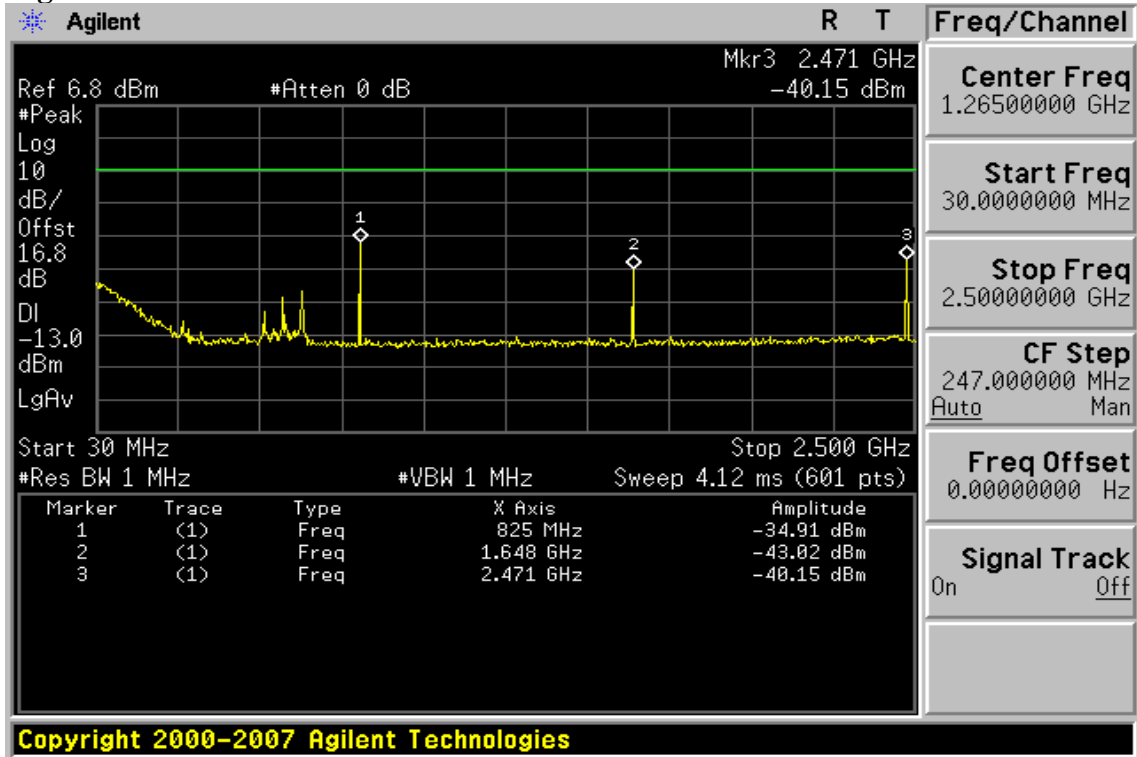
Refer to section 2.4 in this report

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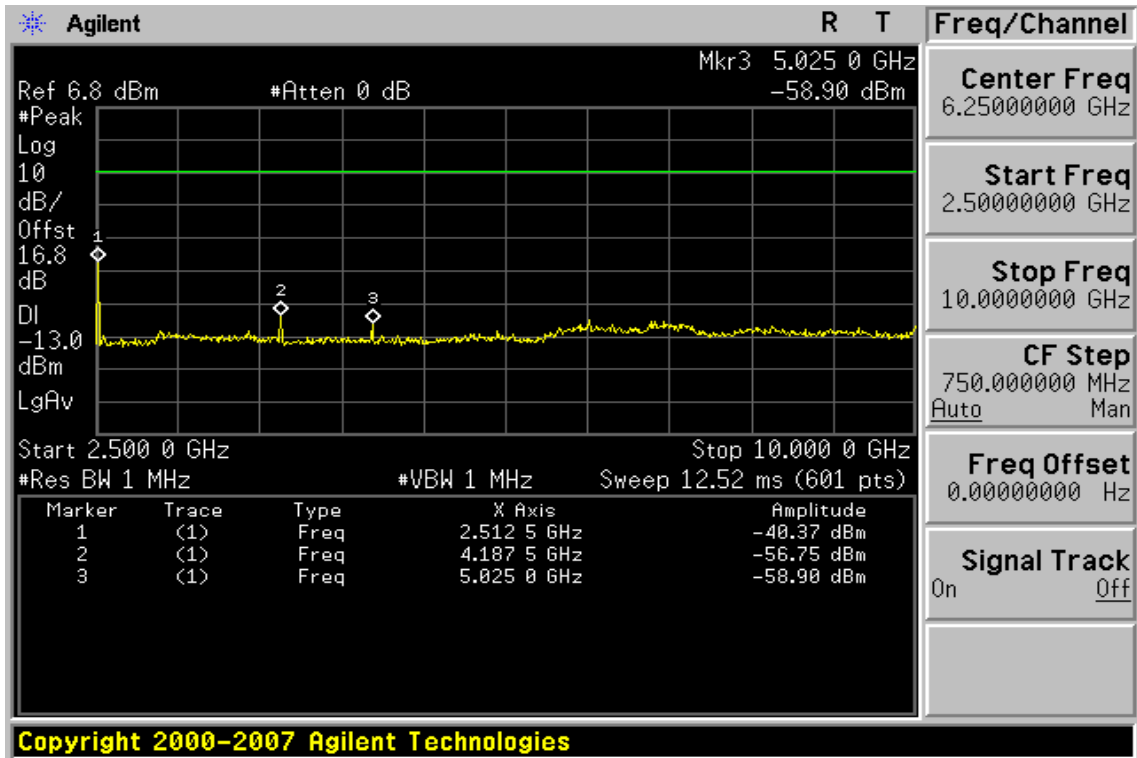
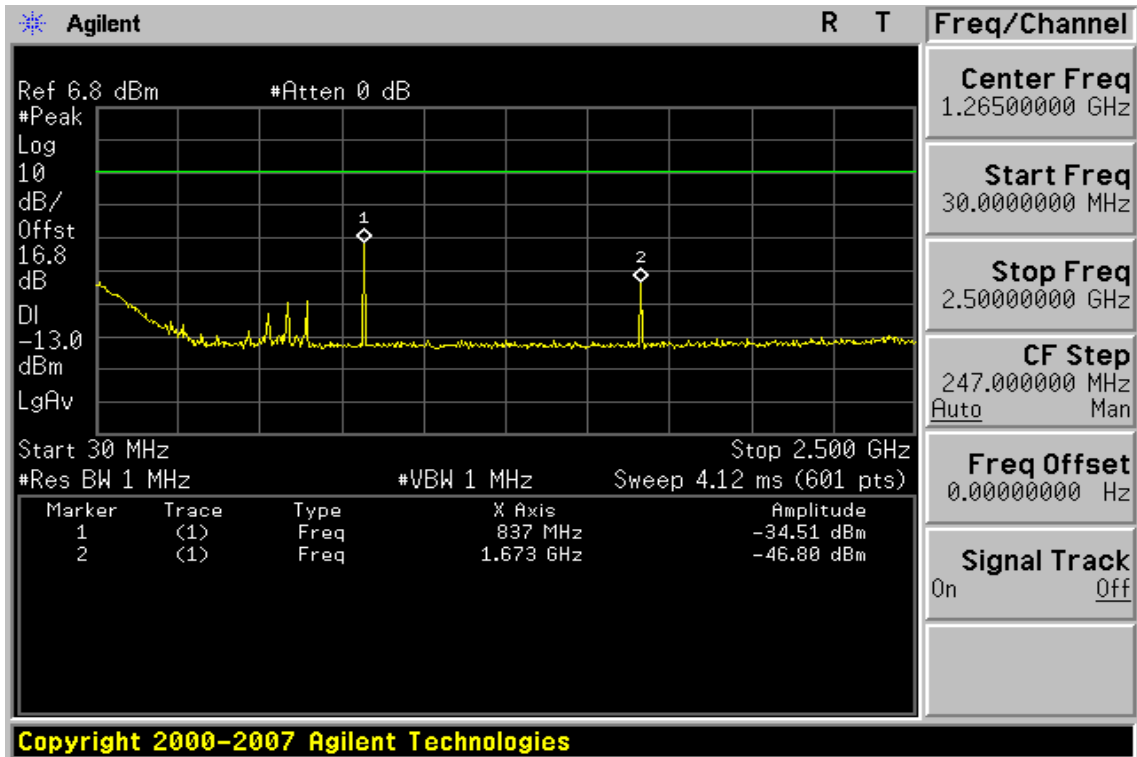
8.5 Measurement Result

Figure 8-1: Out of Band emission at antenna terminals– GSM 850 Channel Lowest



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Figure 8-2: Out of Band emission at antenna terminals –GSM 850 Channel Mid

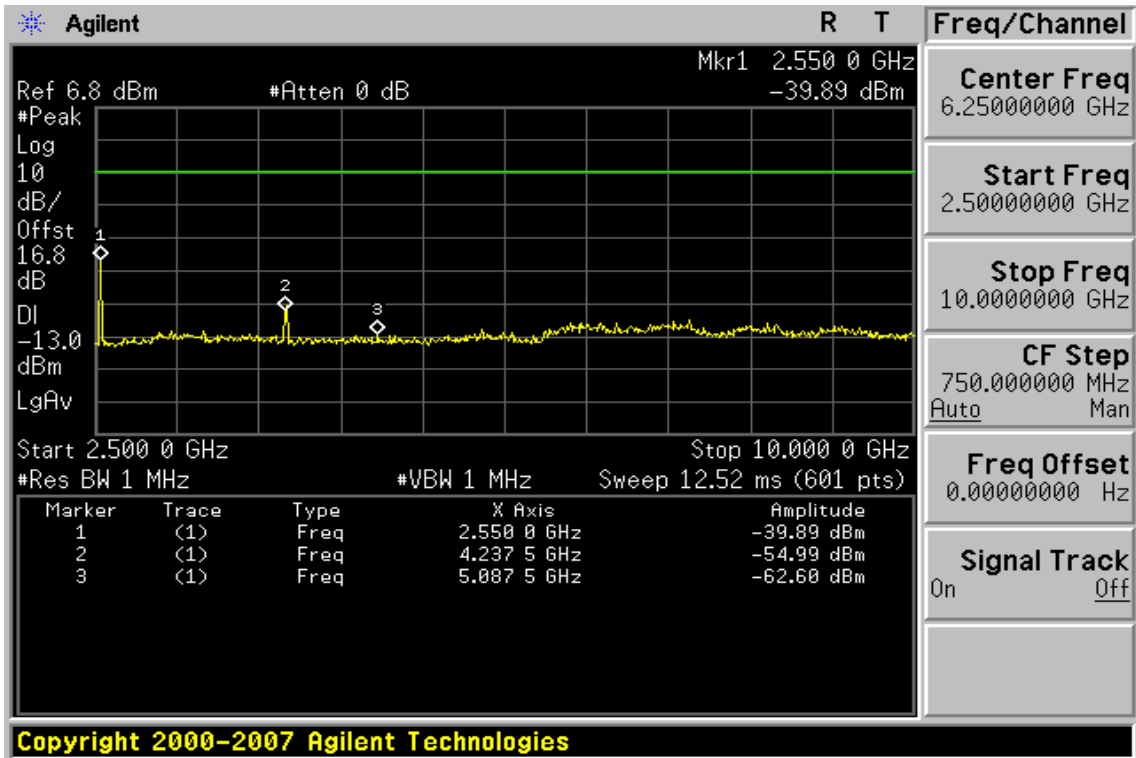
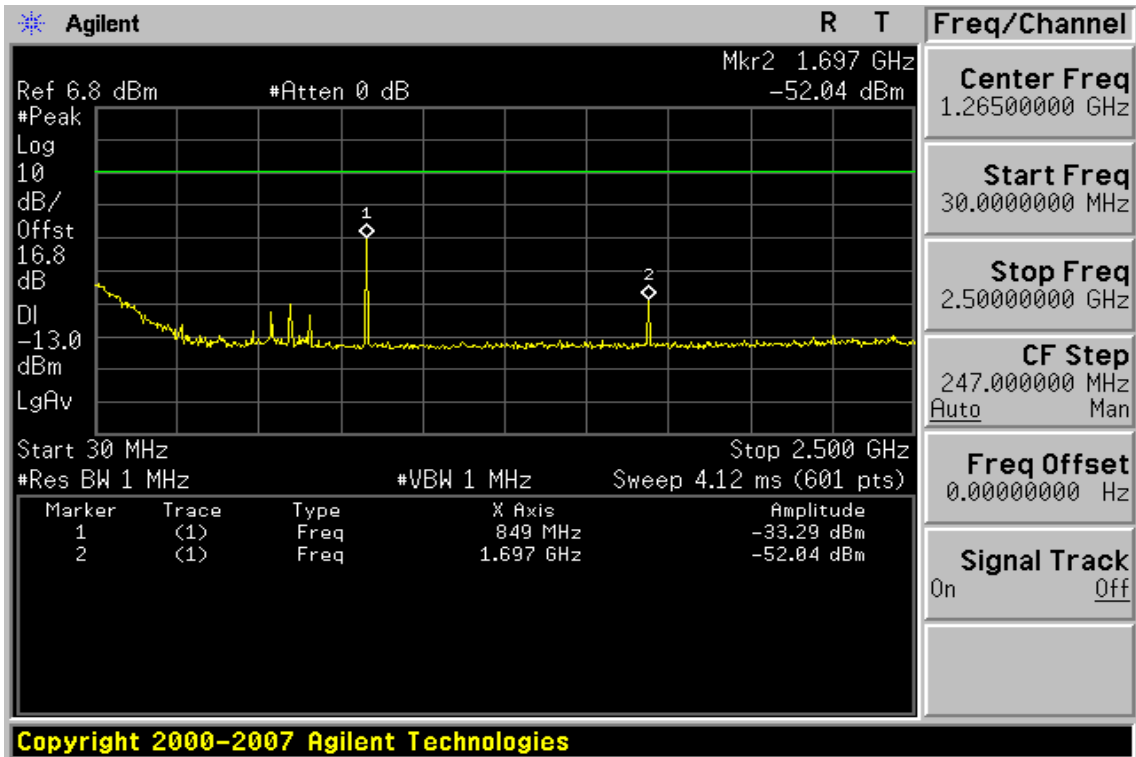


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Figure 8-3: Out of Band emission at antenna terminals–GSM 850 Channel Highest



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Figure 8-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest

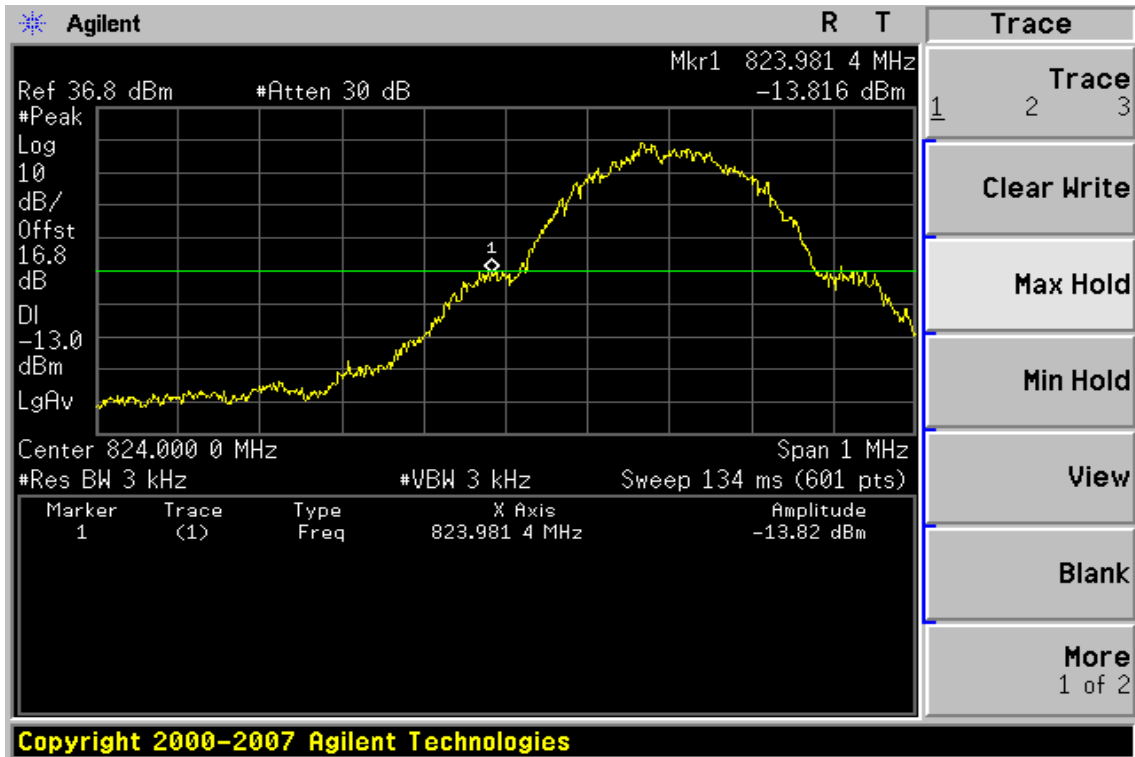
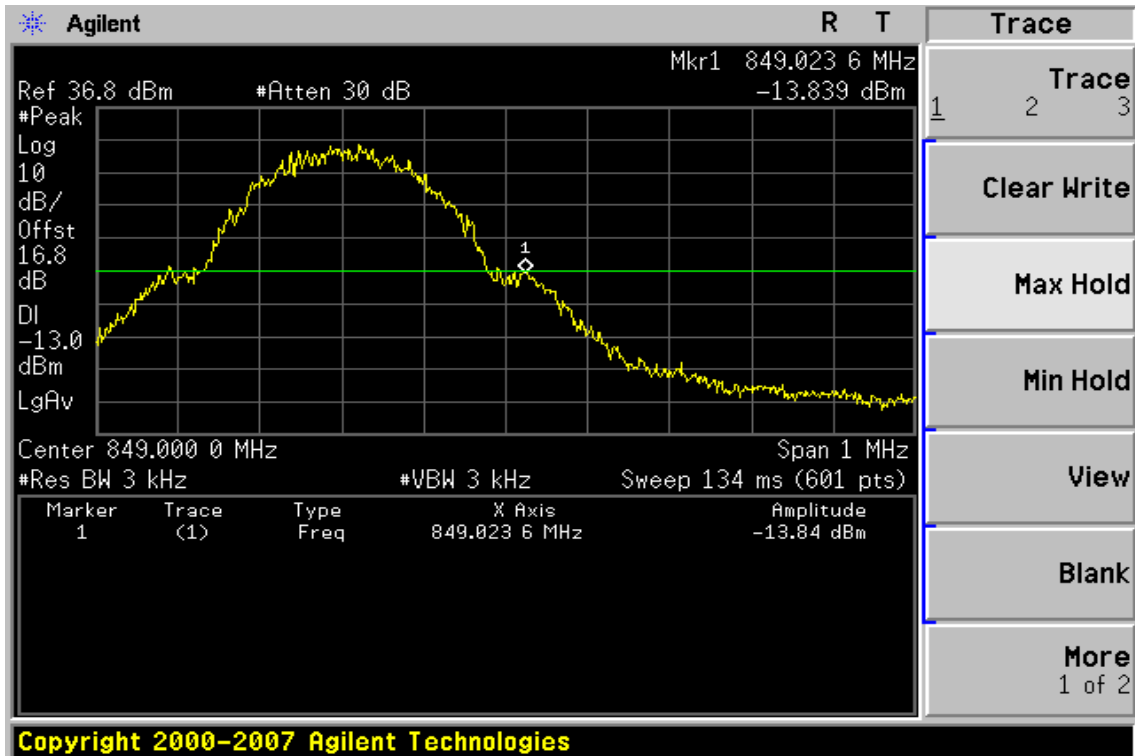


Figure 8-5: Band edge emission at antenna terminals – GSM 850 Channel Highest

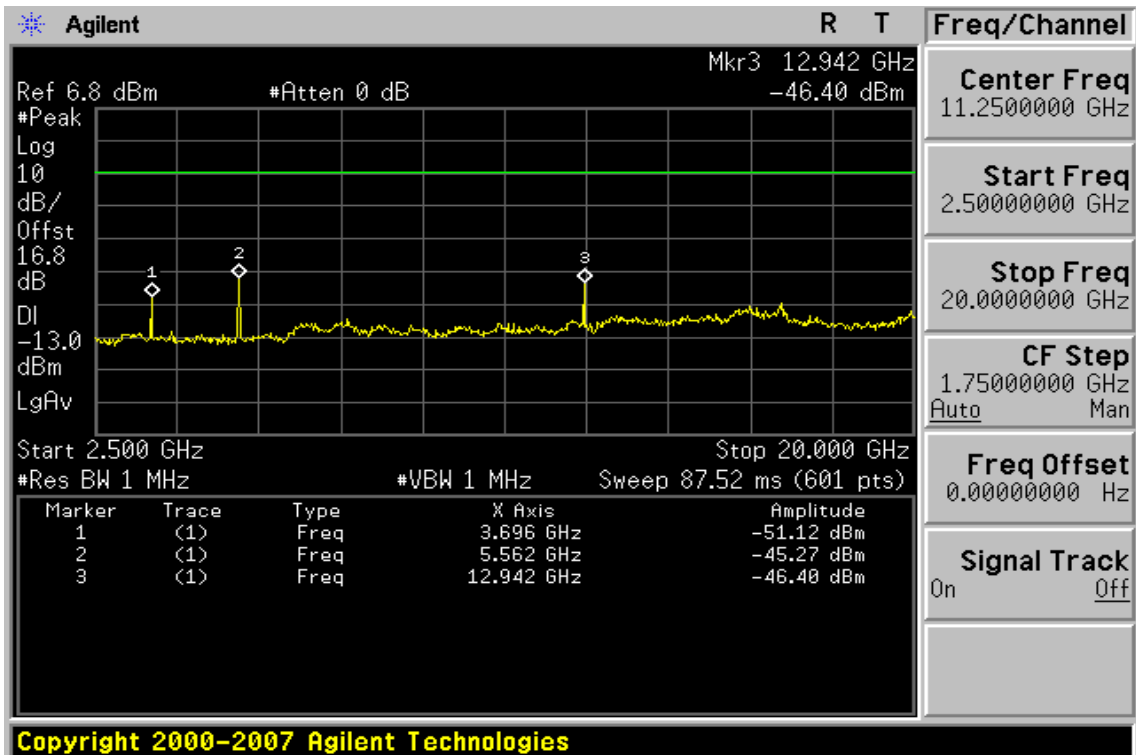
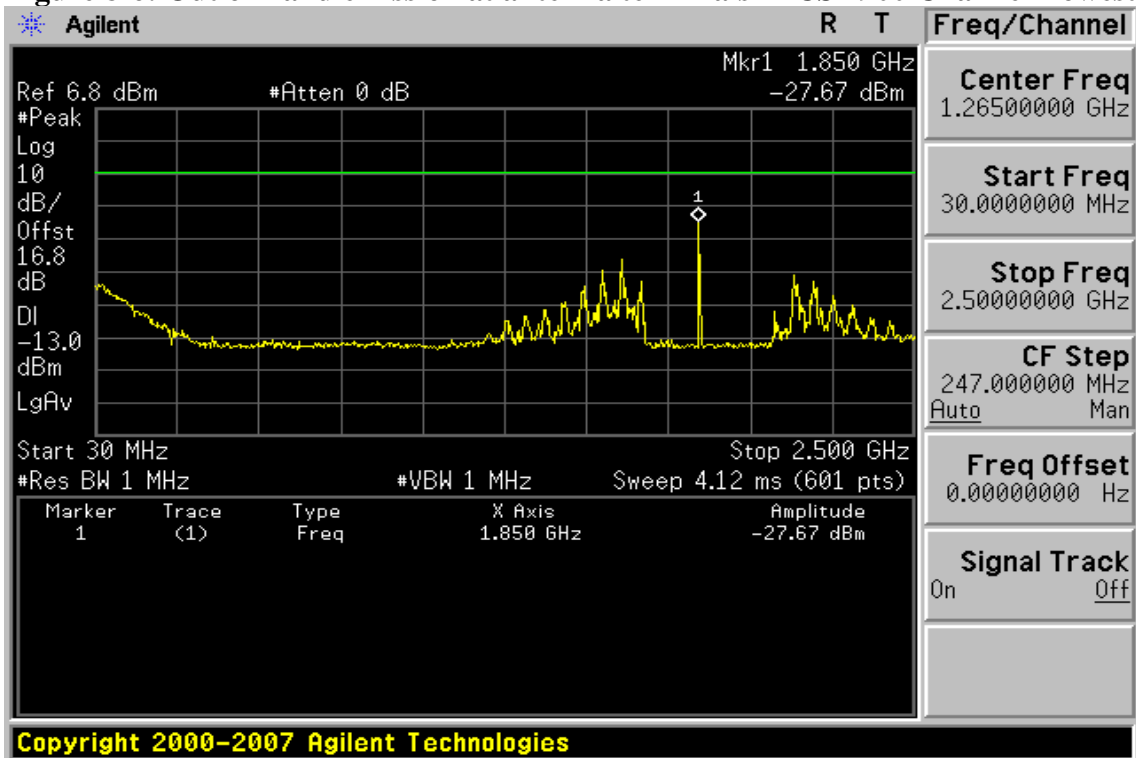


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Figure 8-6: Out of Band emission at antenna terminals– PCS 1900 Channel Lowest

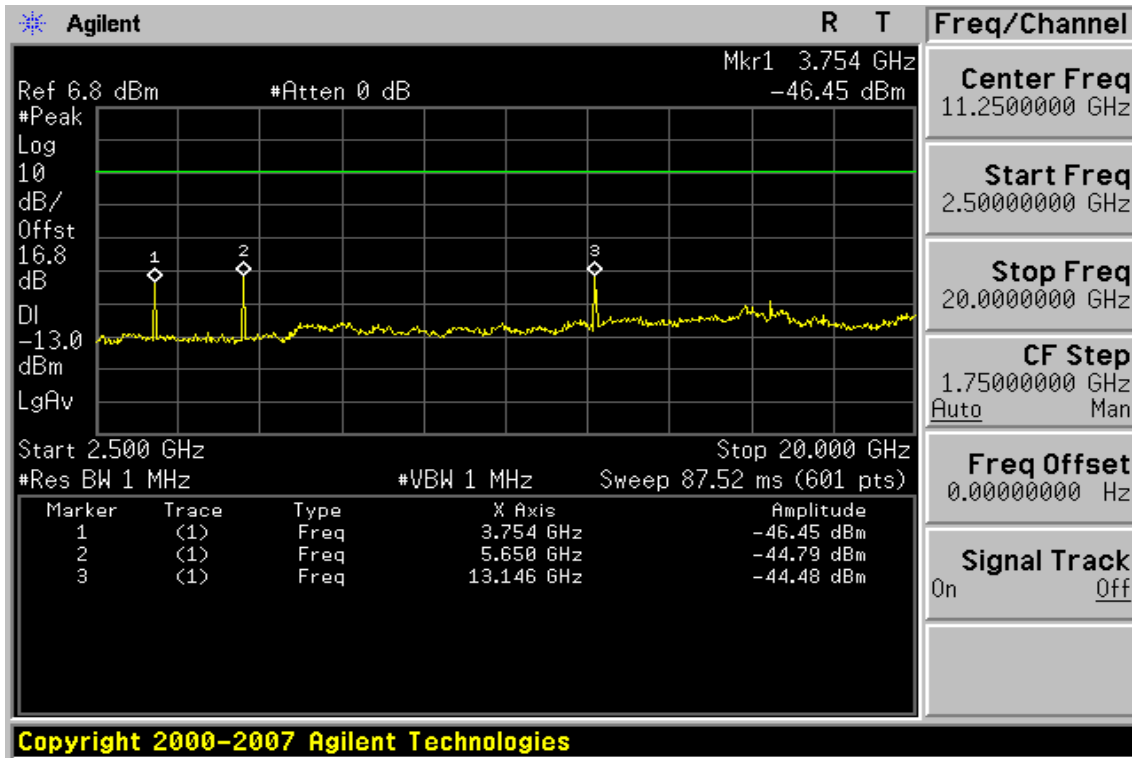
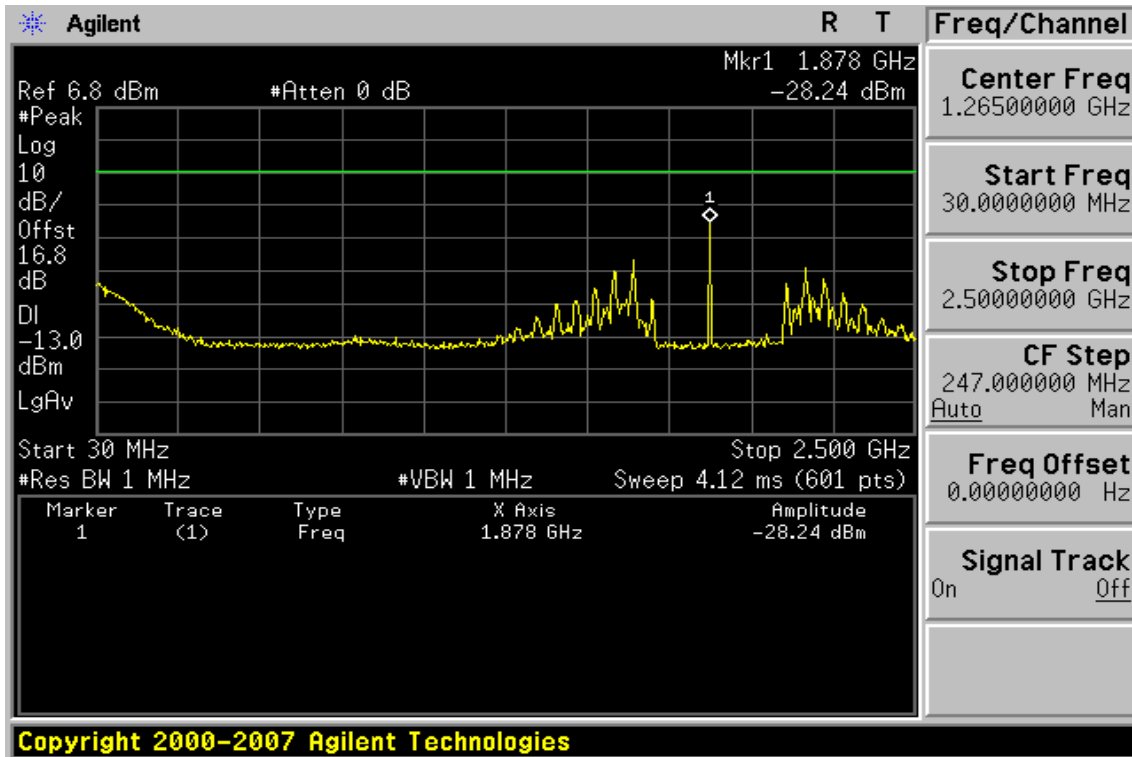


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Figure 8-7: Out of Band emission at antenna terminals –PCS 1900 Channel Mid

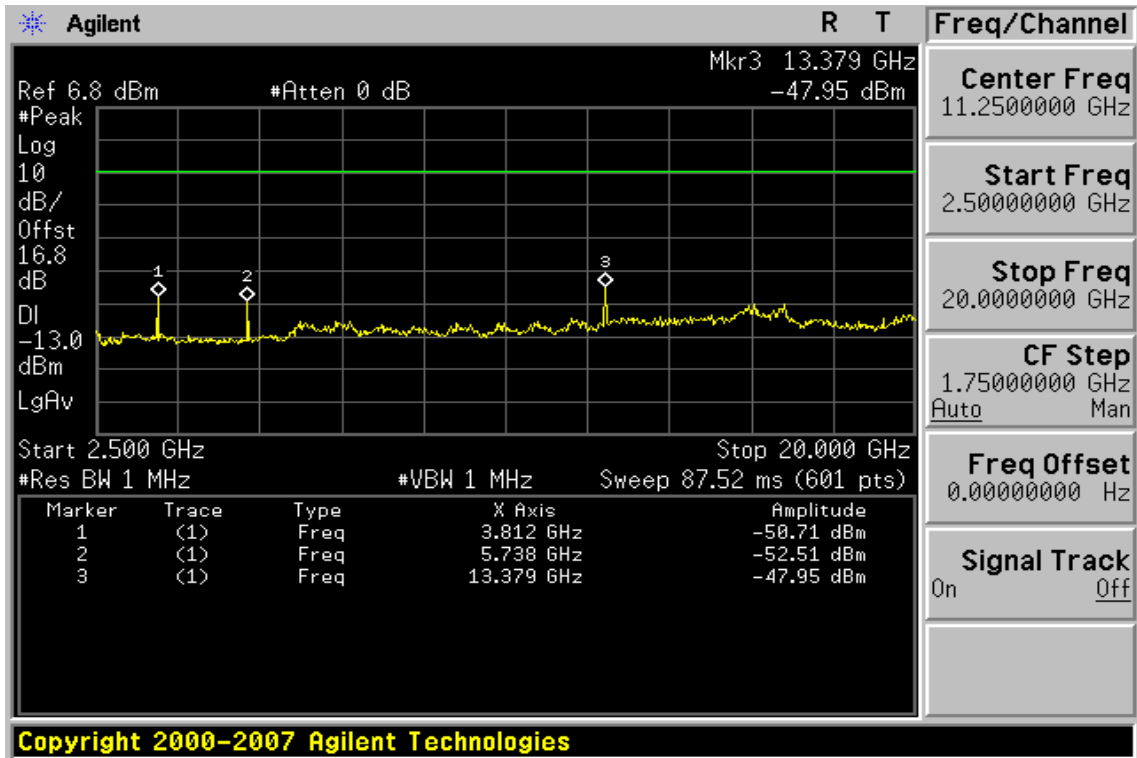
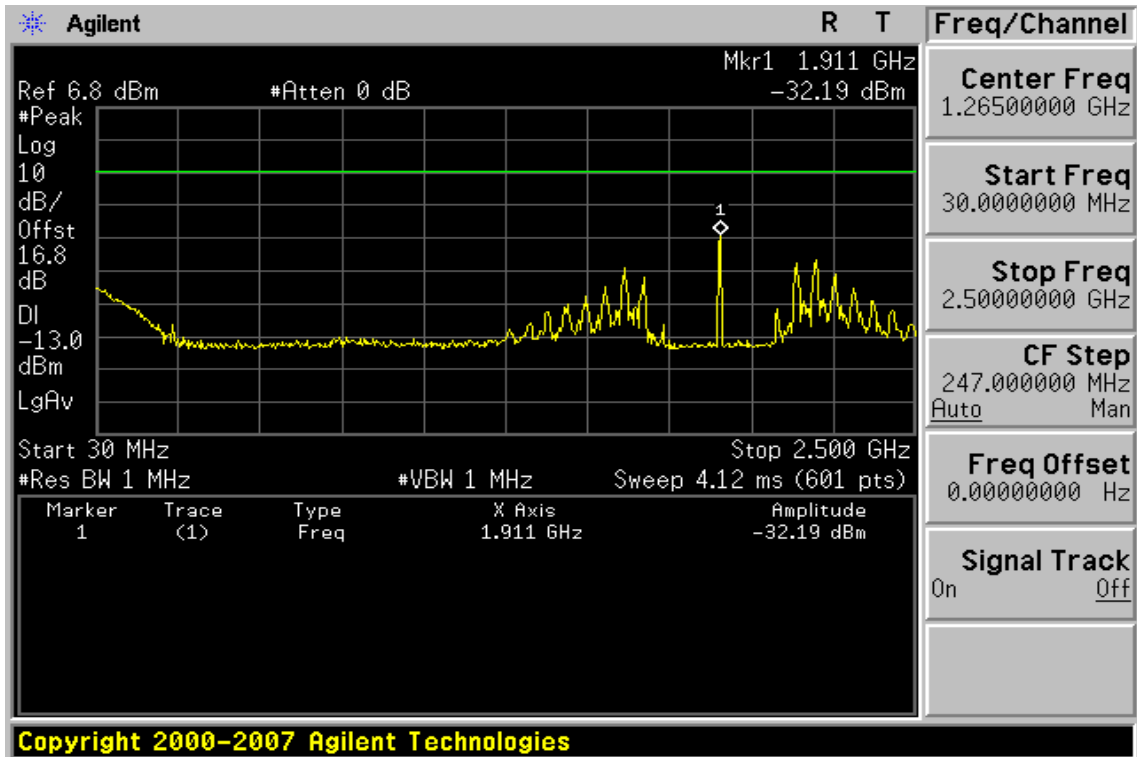


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Figure 8-8: Out of Band emission at antenna terminals–PCS 1900 Channel Highest



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Figure 8-9: Bad edge emission at antenna terminals – PCS 1900 Channel Lowest

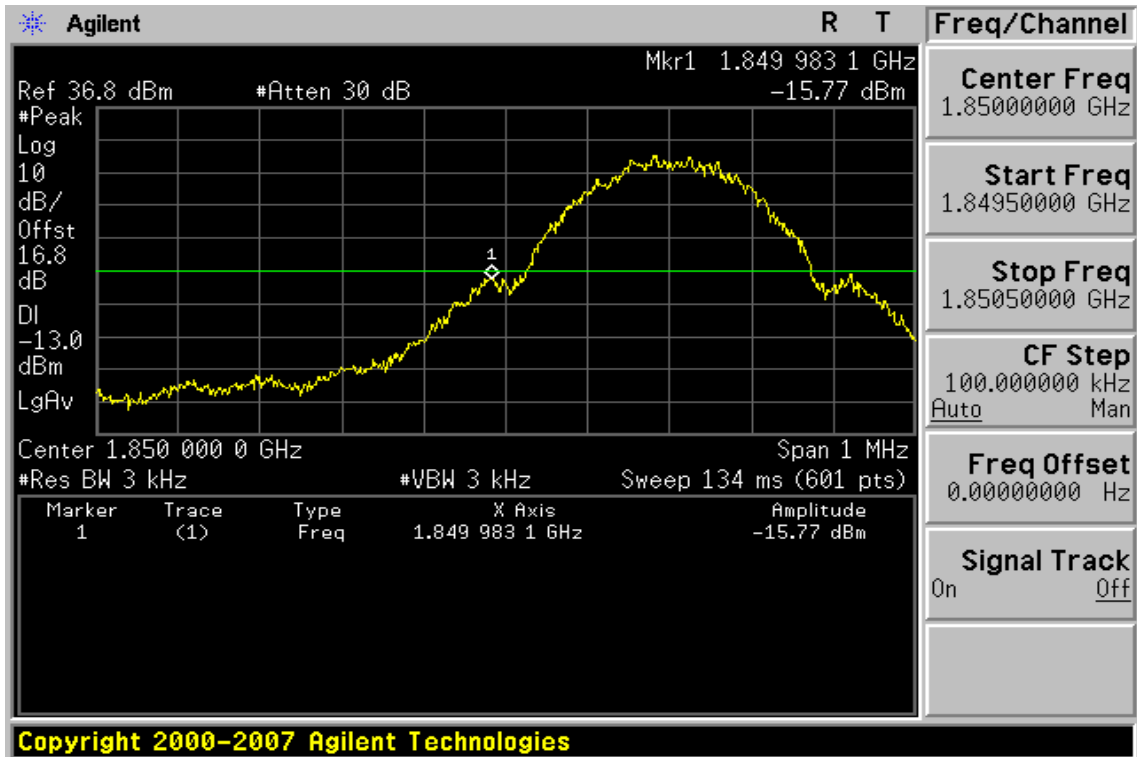


Figure 8-10: Band edge emission at antenna terminals – PCS 1900 Channel Highest



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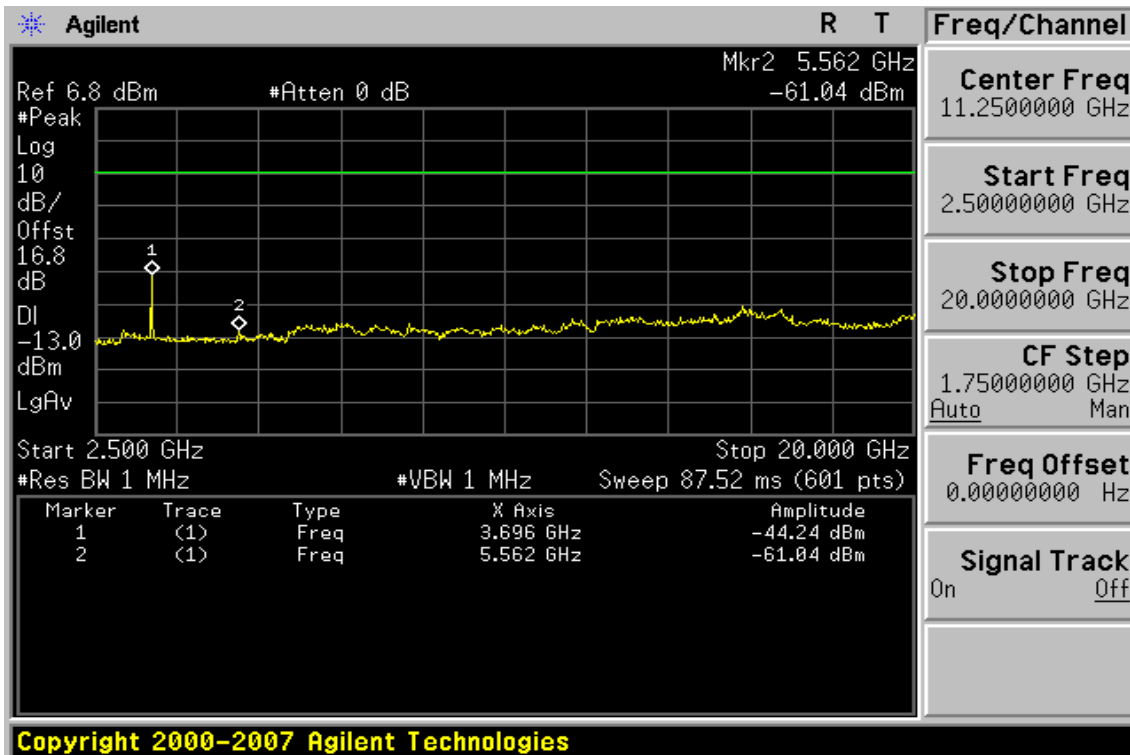
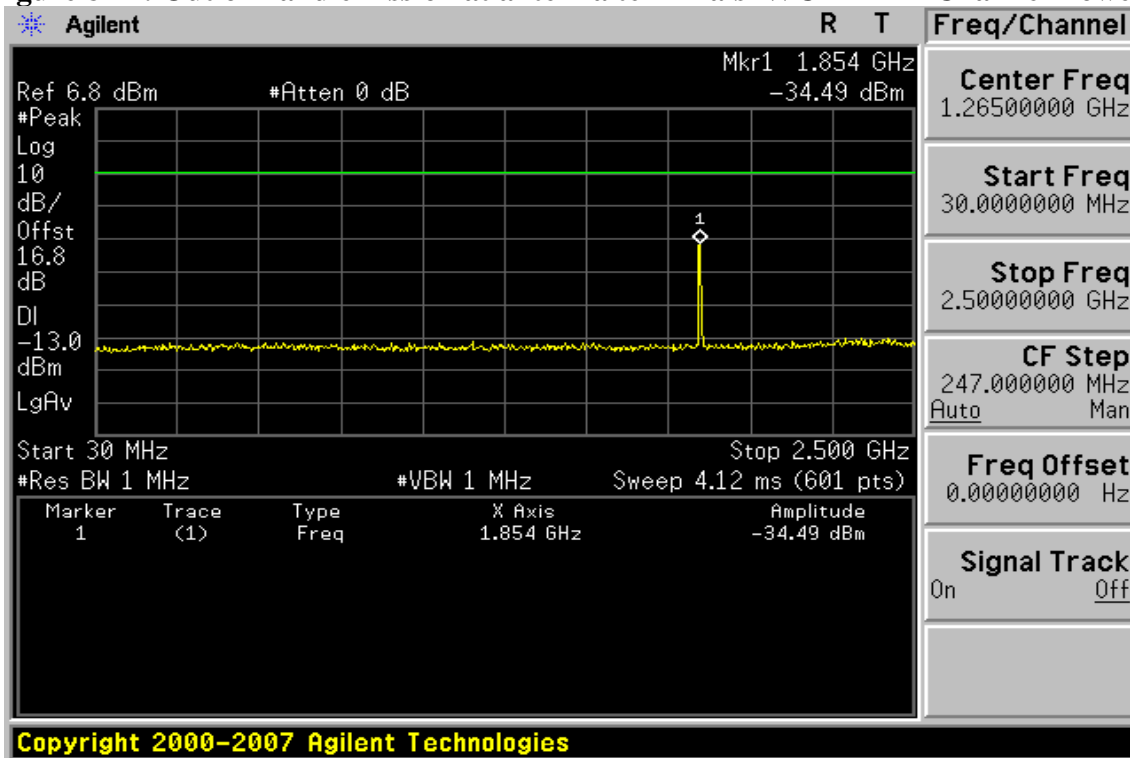
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Figure 8-11: Out of Band emission at antenna terminals–WCDMA II Channel Lowest

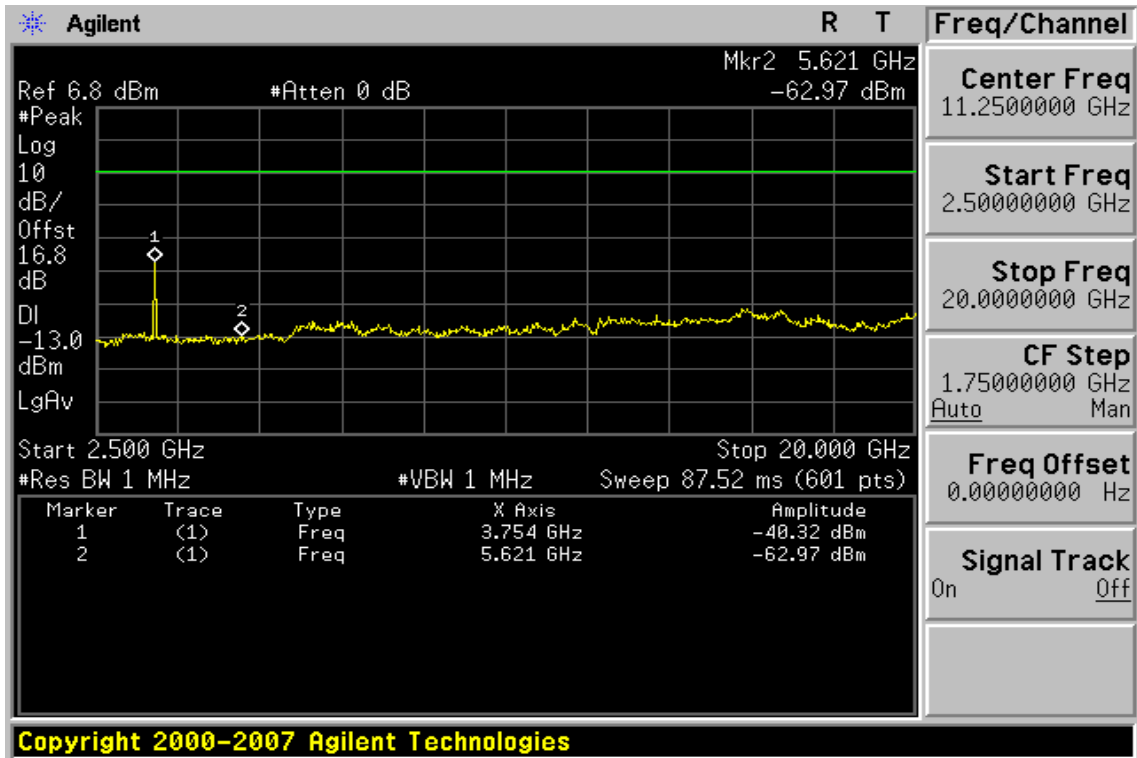
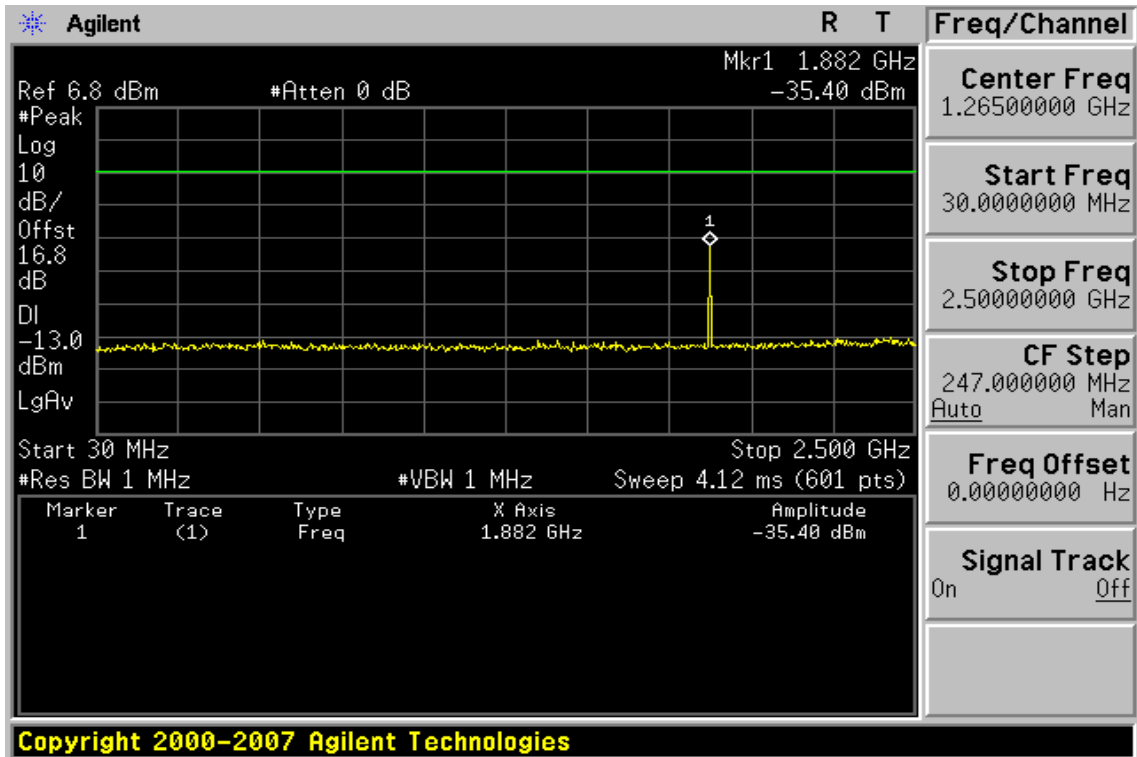


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Figure 8-12: Out of Band emission at antenna terminals –WCDMA II Channel Mid

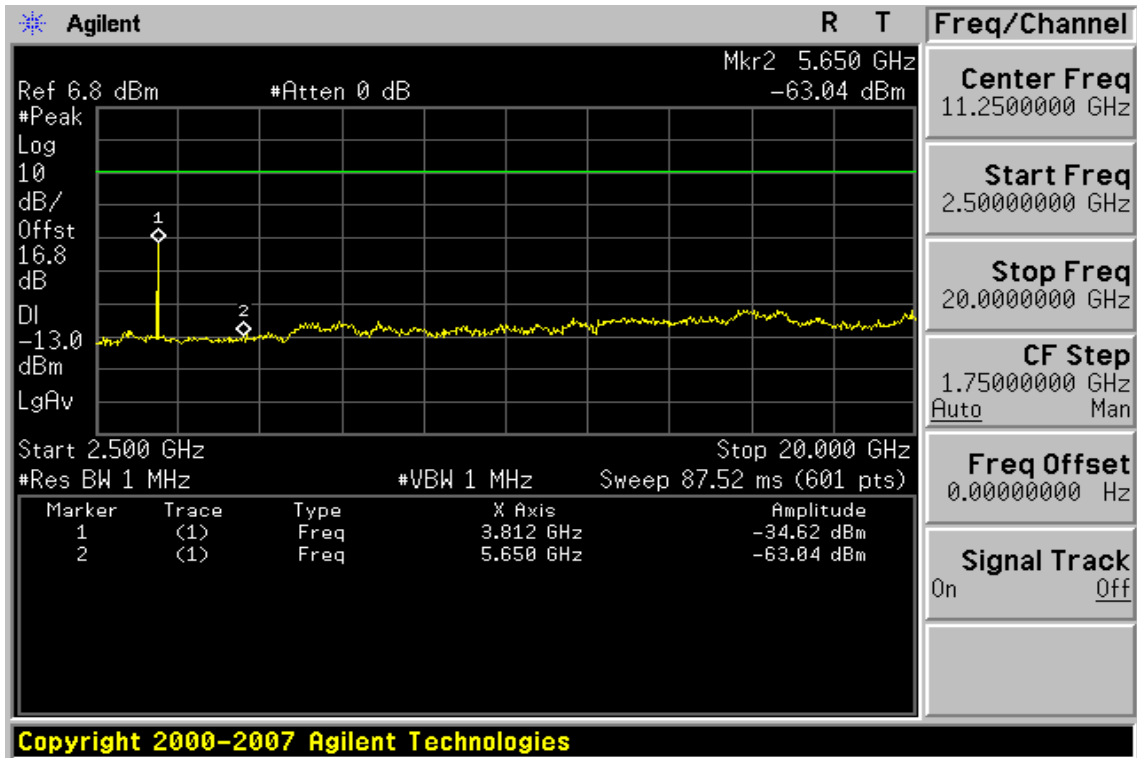
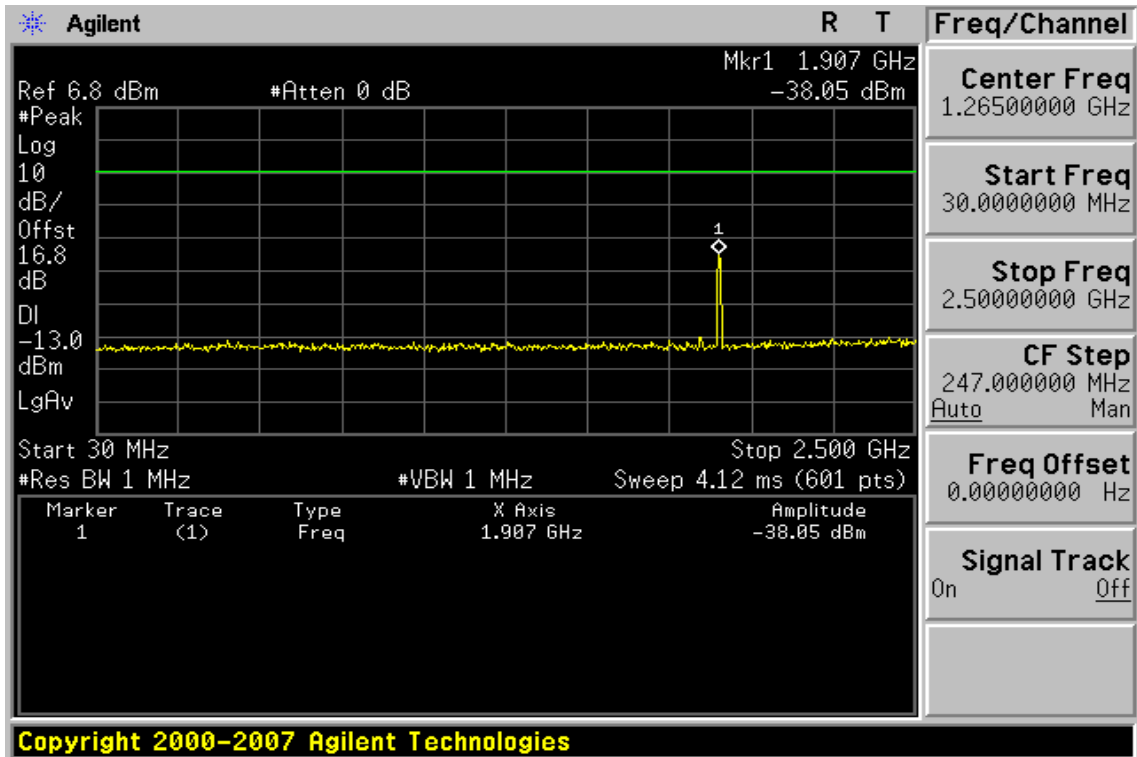


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Figure 8-13: Out of Band emission at antenna terminals–WCDMA II Channel Highest



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Figure 8-14: Bad edge emission at antenna terminals –WCDMA II Channel Lowest

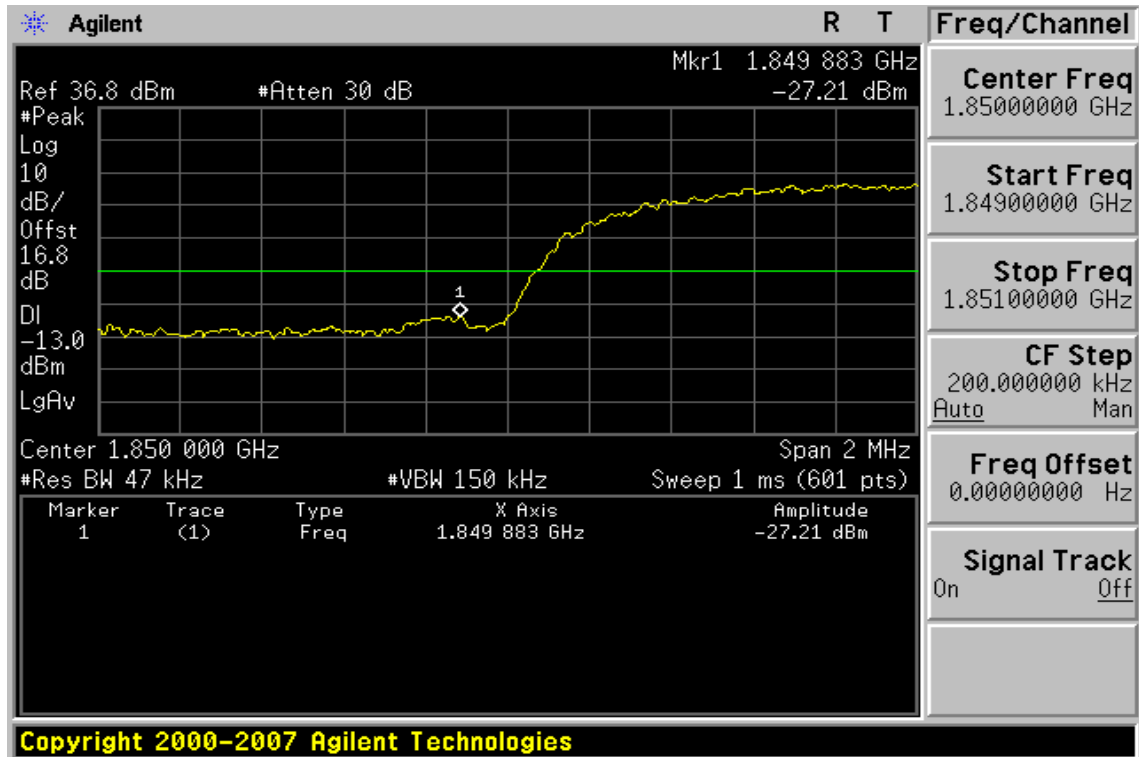
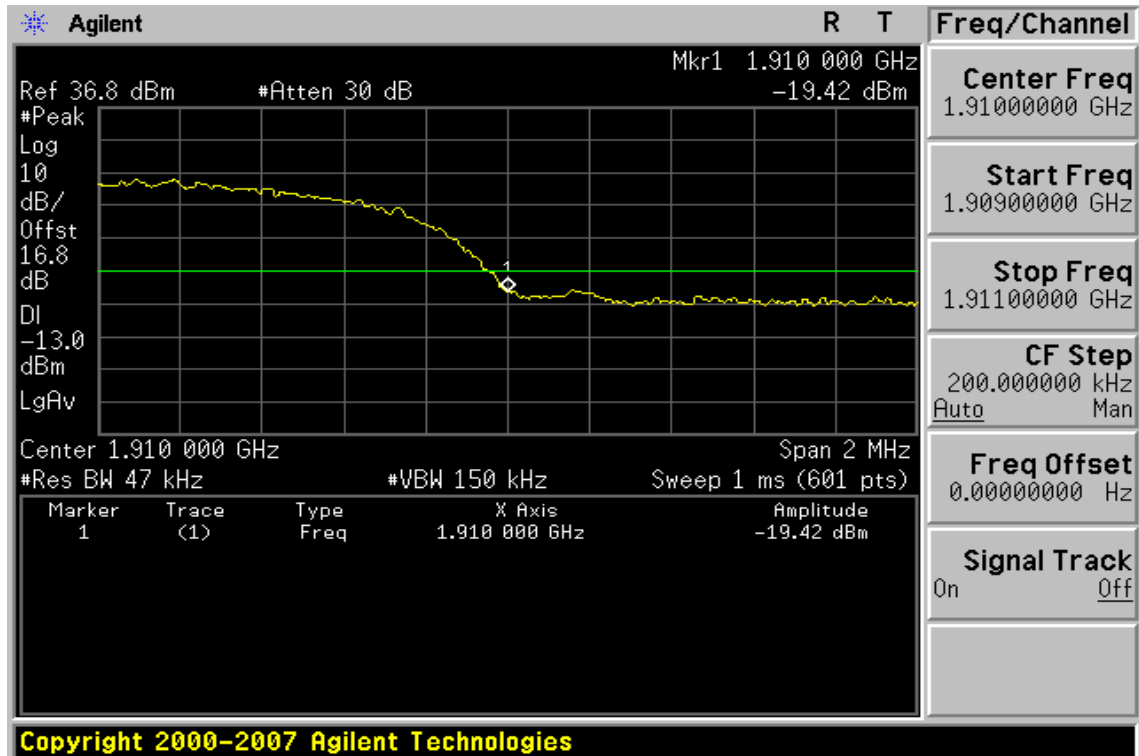


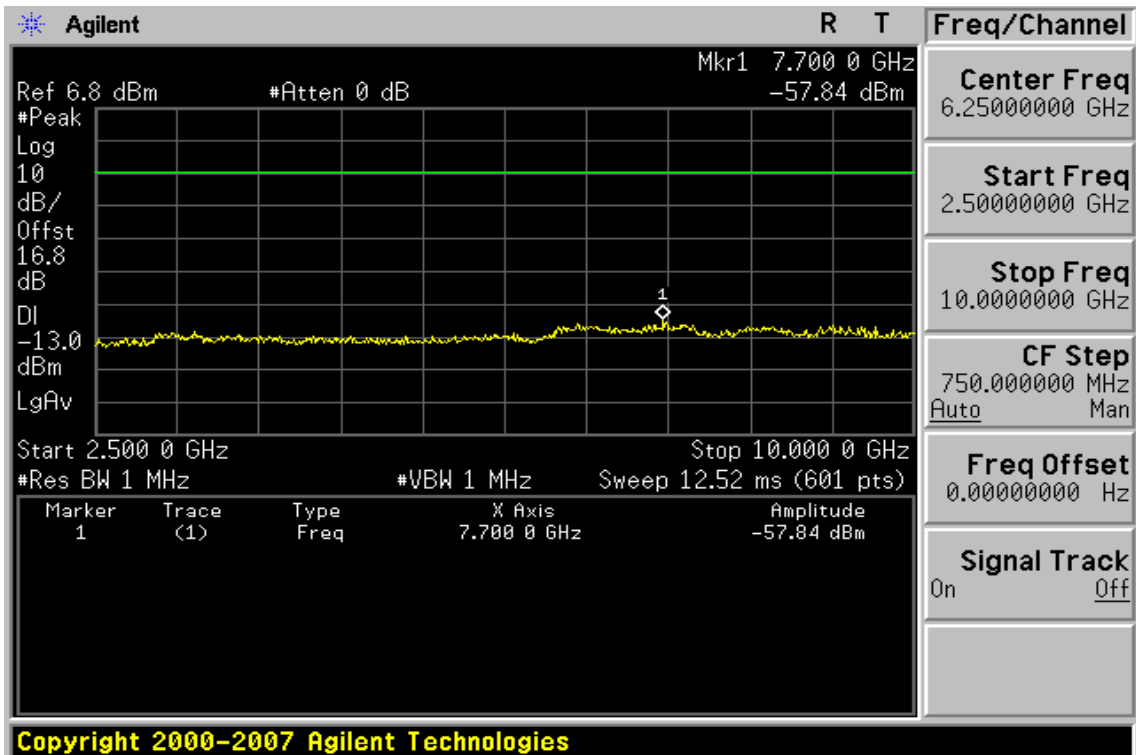
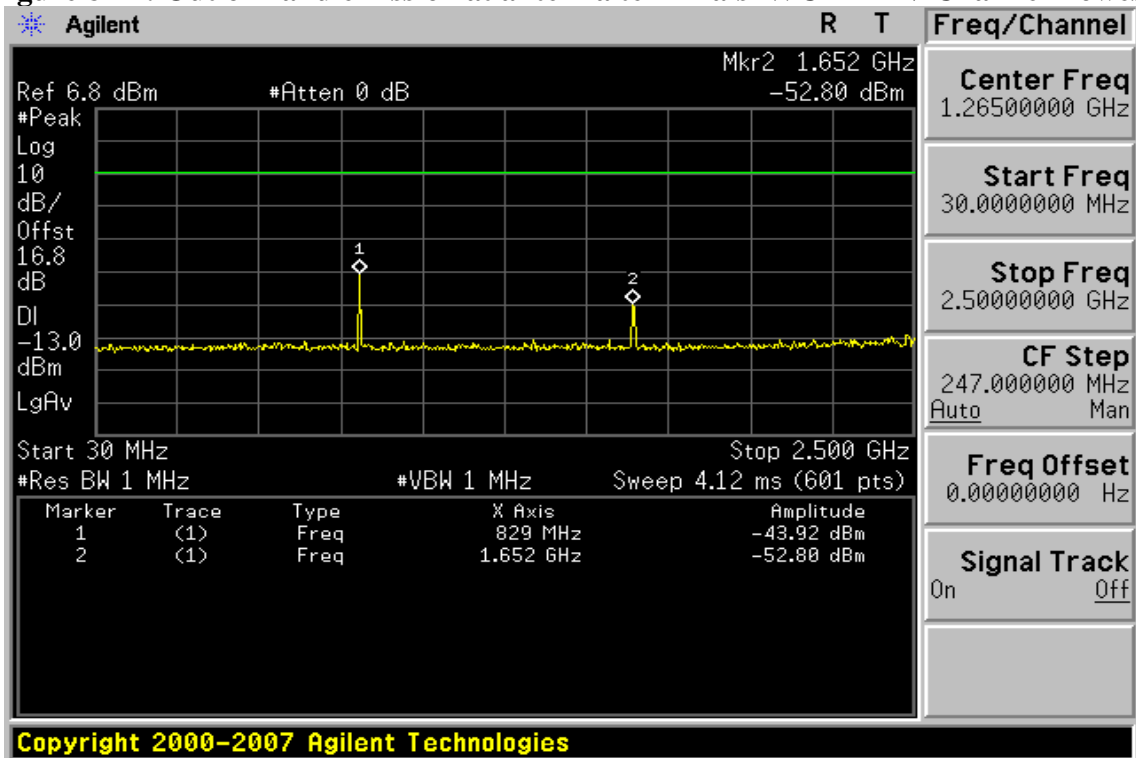
Figure 8-15: Band edge emission at antenna terminals –WCDMA II Channel Highest



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Figure 8-21: Out of Band emission at antenna terminals–WCDMA V Channel Lowest



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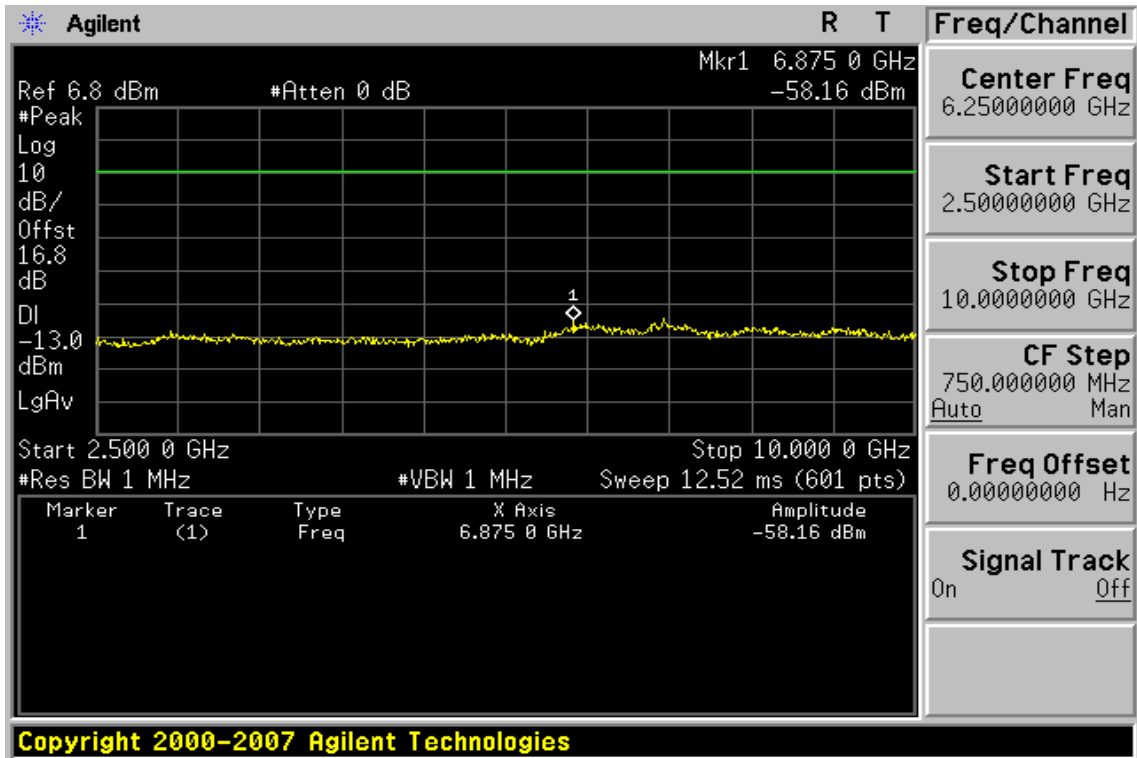
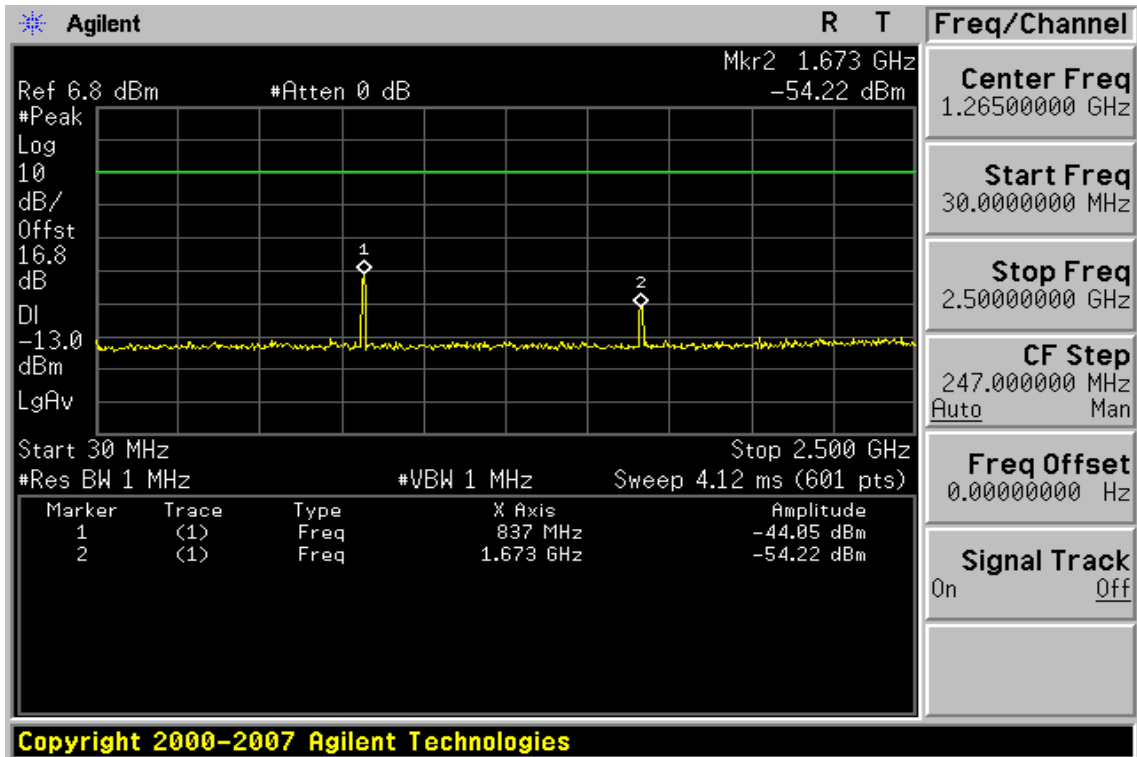
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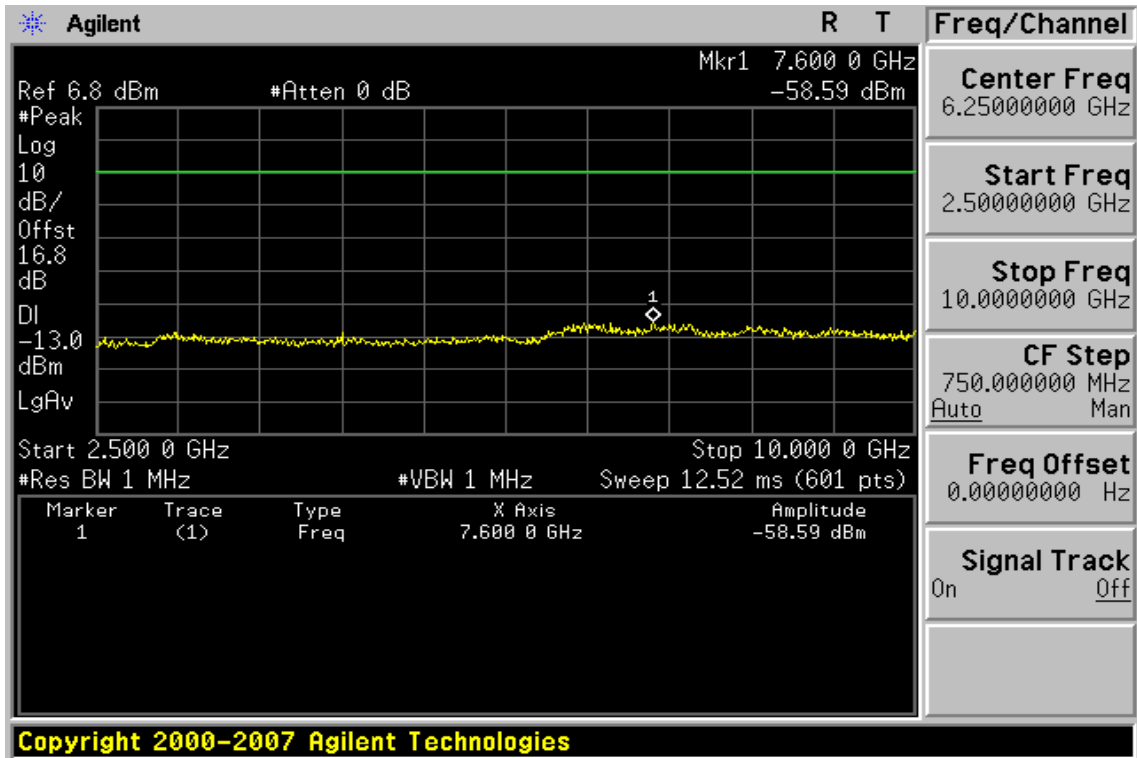
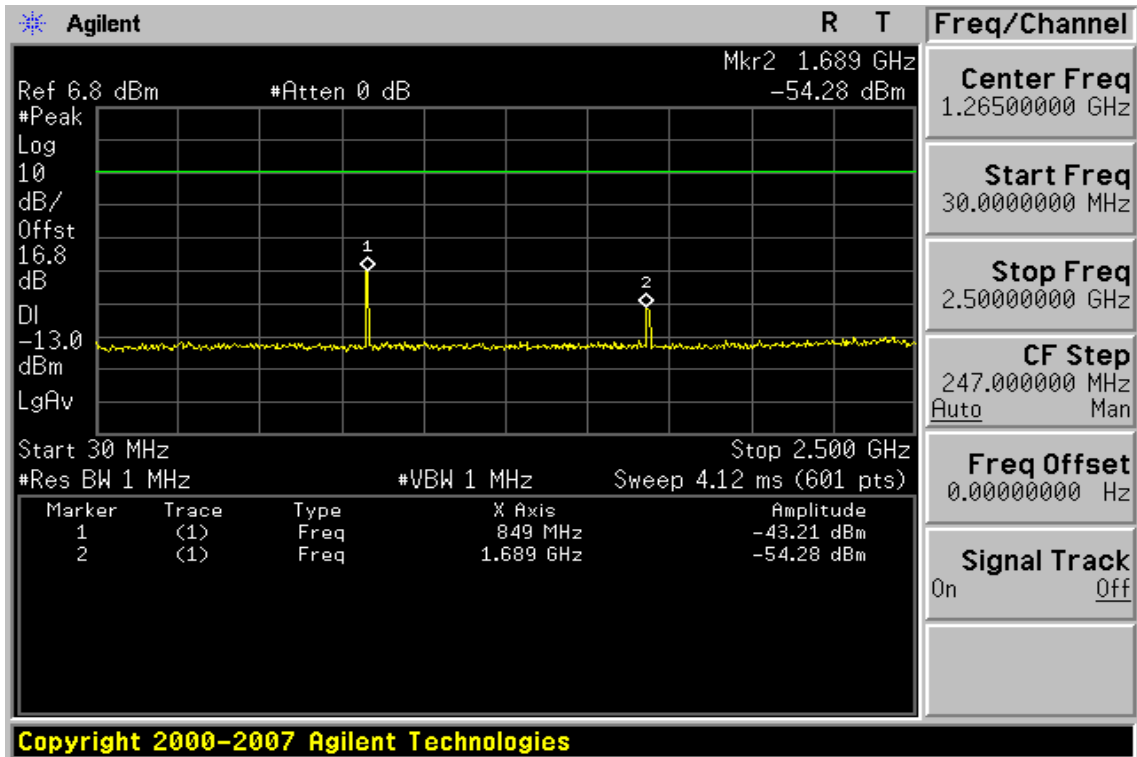
Figure 8-22: Out of Band emission at antenna terminals –WCDMA V Channel Mid



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Figure 8-23: Out of Band emission at antenna terminals–WCDMA V Channel Highest



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Figure 8-24: Bad edge emission at antenna terminals –WCDMA V Channel Lowest

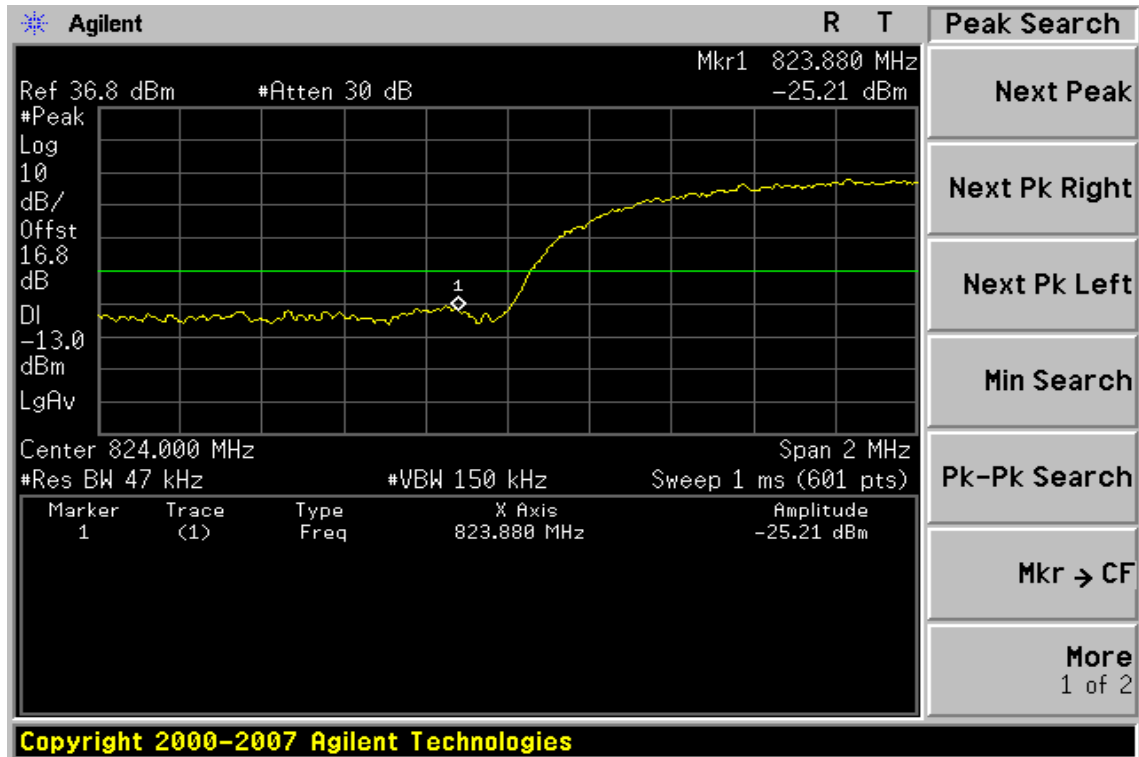
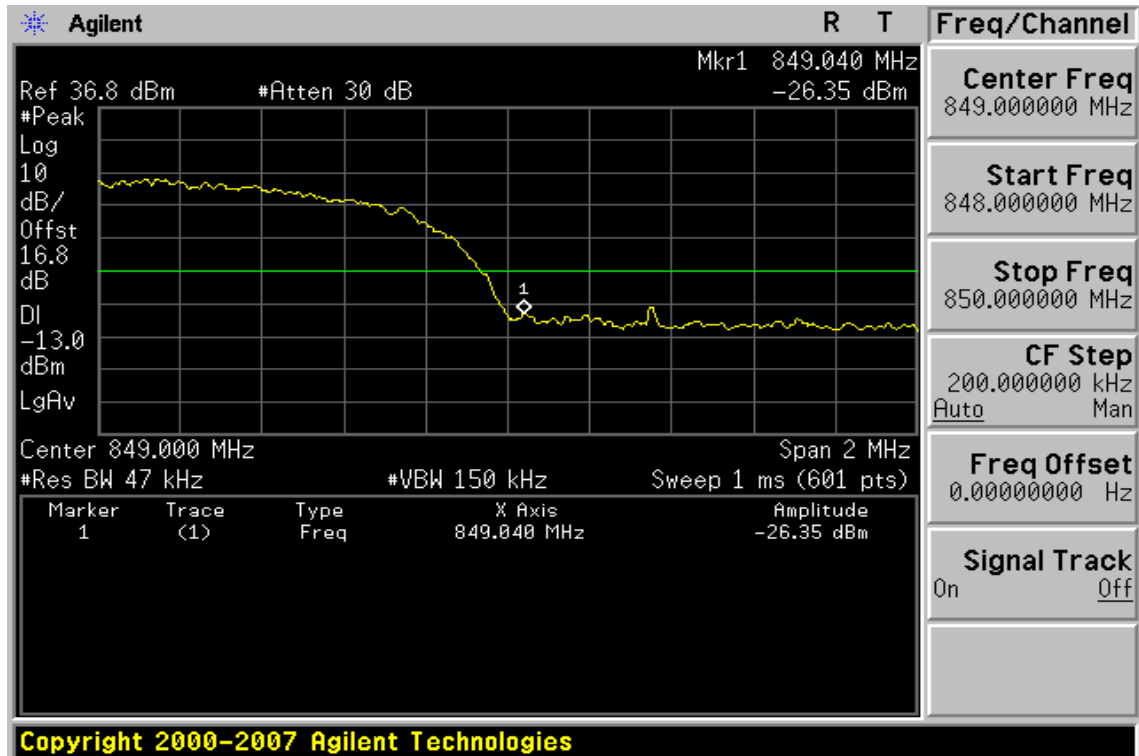


Figure 8-25: Band edge emission at antenna terminals –WCDMA V Channel Highest



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SGS Taiwan Ltd.

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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

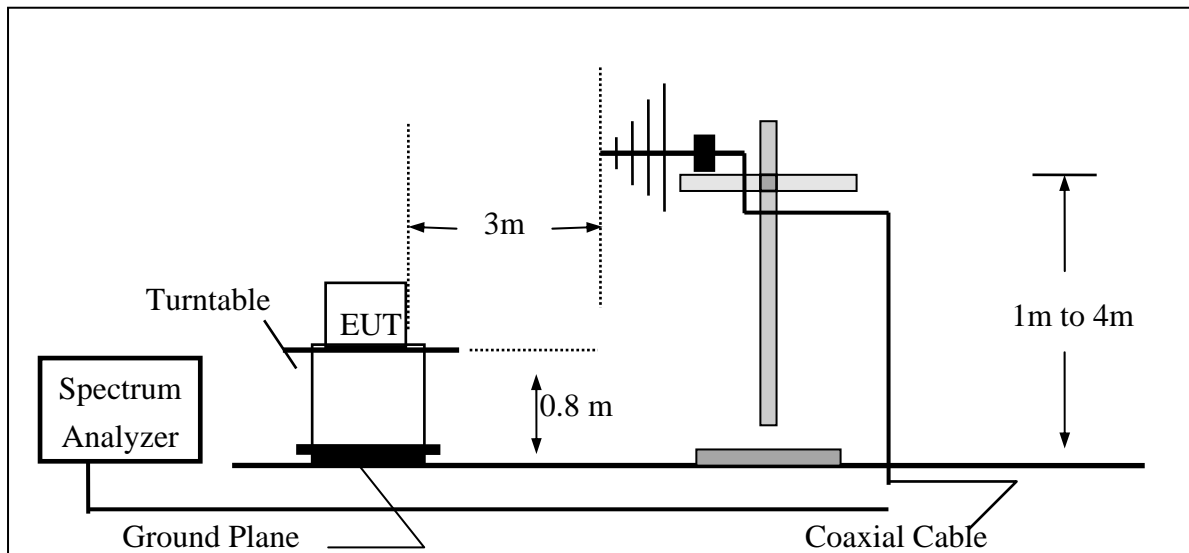
9.1 Standard Applicable

According to FCC §2.1053,

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

9.2 EUT Setup (Block Diagram of Configuration)

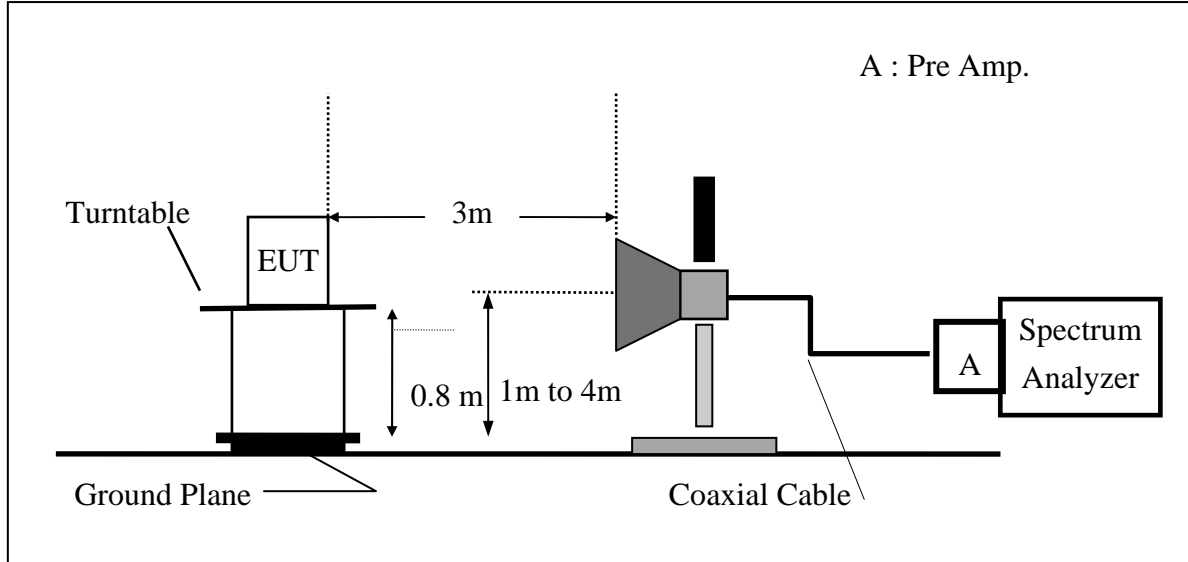
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



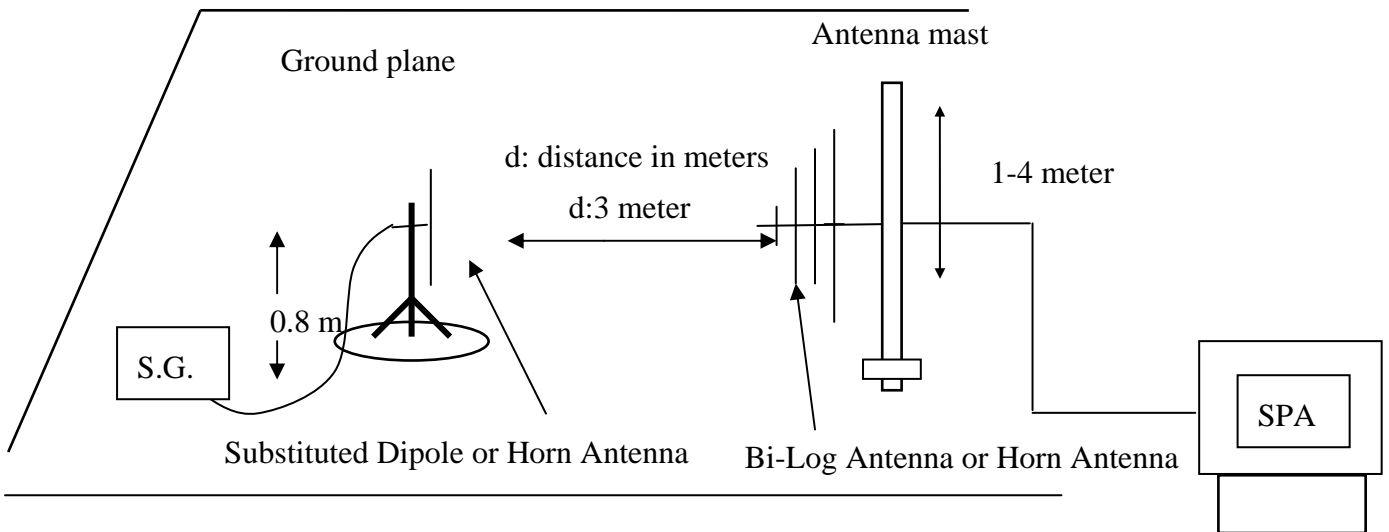
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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9.3 Measurement Procedure

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

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

ERP in frequency band 824 –850 MHz 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 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:

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

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

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

9.4 Measurement Equipment Used:

Refer to section 2.4 in this report

9.5 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Low Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 56.19 | 40.56 | V | -69.10 | -0.51 | 1.09 | -70.71 | -13.00 | -57.71 |
| 90.14 | 43.85 | V | -59.33 | -7.75 | 1.27 | -68.35 | -13.00 | -55.35 |
| 104.69 | 42.60 | V | -58.89 | -7.76 | 1.38 | -68.03 | -13.00 | -55.03 |
| 594.54 | 32.73 | V | -57.16 | -7.79 | 3.02 | -67.97 | -13.00 | -54.97 |
| 652.74 | 36.38 | V | -52.57 | -7.81 | 3.17 | -63.55 | -13.00 | -50.55 |
| 823.99 | 73.84 | V | -8.50 | -7.87 | 3.62 | -20.00 | -13.00 | -7.00 |
| 963.14 | 33.71 | V | -50.61 | -8.00 | 3.92 | -62.52 | -13.00 | -49.52 |
| 1644.00 | 44.66 | V | -59.93 | 9.27 | 5.22 | -55.87 | -13.00 | -42.87 |
| 2463.00 | 40.57 | V | -60.50 | 10.08 | 6.51 | -56.94 | -13.00 | -43.94 |
| 2472.60 | --- | V | | 10.08 | 6.53 | | -13.00 | |
| 3296.80 | --- | V | | 12.17 | 7.71 | | -13.00 | |
| 4121.00 | --- | V | | 12.61 | 8.86 | | -13.00 | |
| 4945.20 | --- | V | | 12.65 | 9.74 | | -13.00 | |
| 5769.40 | --- | V | | 13.55 | 10.54 | | -13.00 | |
| 6593.60 | --- | V | | 12.05 | 11.30 | | -13.00 | |
| 7417.80 | --- | V | | 11.49 | 12.10 | | -13.00 | |
| 8242.00 | --- | V | | 11.48 | 12.71 | | -13.00 | |

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

Remark:

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

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Low Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 38.68 | H | -69.76 | -0.55 | 1.11 | -71.43 | -13.00 | -58.43 |
| 90.14 | 40.61 | H | -63.12 | -7.75 | 1.27 | -72.14 | -13.00 | -59.14 |
| 104.69 | 38.24 | H | -64.27 | -7.76 | 1.38 | -73.41 | -13.00 | -60.41 |
| 145.43 | 33.21 | H | -65.04 | -7.80 | 1.57 | -74.40 | -13.00 | -61.40 |
| 536.34 | 37.03 | H | -55.16 | -7.75 | 2.92 | -65.83 | -13.00 | -52.83 |
| 652.74 | 46.48 | H | -43.13 | -7.81 | 3.17 | -54.11 | -13.00 | -41.11 |
| 823.99 | 83.41 | H | -4.97 | -7.87 | 3.62 | -16.47 | -13.00 | -3.47 |
| 1644.00 | 46.80 | H | -57.61 | 9.27 | 5.22 | -53.55 | -13.00 | -40.55 |
| 2463.00 | 55.48 | H | -45.49 | 10.08 | 6.51 | -41.93 | -13.00 | -28.93 |
| 2472.60 | --- | H | | 10.08 | 6.53 | | -13.00 | |
| 3296.80 | --- | H | | 12.17 | 7.71 | | -13.00 | |
| 4121.00 | --- | H | | 12.61 | 8.86 | | -13.00 | |
| 4945.20 | --- | H | | 12.65 | 9.74 | | -13.00 | |
| 5769.40 | --- | H | | 13.55 | 10.54 | | -13.00 | |
| 6593.60 | --- | H | | 12.05 | 11.30 | | -13.00 | |
| 7417.80 | --- | H | | 11.49 | 12.10 | | -13.00 | |
| 8242.00 | --- | H | | 11.48 | 12.71 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Mid Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 836.60 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 56.19 | 40.35 | V | -69.31 | -0.51 | 1.09 | -70.92 | -13.00 | -57.92 |
| 90.14 | 43.98 | V | -59.20 | -7.75 | 1.27 | -68.22 | -13.00 | -55.22 |
| 106.63 | 41.63 | V | -59.68 | -7.77 | 1.39 | -68.83 | -13.00 | -55.83 |
| 577.08 | 32.59 | V | -58.32 | -7.78 | 3.00 | -69.09 | -13.00 | -56.09 |
| 664.38 | 37.63 | V | -51.44 | -7.82 | 3.20 | -62.46 | -13.00 | -49.46 |
| 950.53 | 33.05 | V | -51.56 | -8.00 | 3.88 | -63.44 | -13.00 | -50.44 |
| 1679.00 | 45.04 | V | -59.51 | 9.38 | 5.28 | -55.41 | -13.00 | -42.41 |
| 2498.00 | 43.46 | V | -57.37 | 10.06 | 6.57 | -53.88 | -13.00 | -40.88 |
| 3346.40 | --- | V | | 12.28 | 7.79 | | -13.00 | |
| 4183.00 | --- | V | | 12.62 | 8.93 | | -13.00 | |
| 5019.60 | --- | V | | 12.67 | 9.81 | | -13.00 | |
| 5856.20 | --- | V | | 13.68 | 10.62 | | -13.00 | |
| 6692.80 | --- | V | | 11.95 | 11.39 | | -13.00 | |
| 7529.40 | --- | V | | 11.45 | 12.20 | | -13.00 | |
| 8366.00 | --- | V | | 11.59 | 12.81 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Mid Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 836.60 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 37.97 | H | -70.47 | -0.55 | 1.11 | -72.14 | -13.00 | -59.14 |
| 90.14 | 41.48 | H | -62.25 | -7.75 | 1.27 | -71.27 | -13.00 | -58.27 |
| 104.69 | 37.61 | H | -64.90 | -7.76 | 1.38 | -74.04 | -13.00 | -61.04 |
| 547.98 | 34.47 | H | -57.32 | -7.76 | 2.95 | -68.03 | -13.00 | -55.03 |
| 606.18 | 34.26 | H | -56.32 | -7.79 | 3.05 | -67.16 | -13.00 | -54.16 |
| 664.38 | 45.49 | H | -43.63 | -7.82 | 3.20 | -54.65 | -13.00 | -41.65 |
| 1679.00 | 48.80 | H | -55.57 | 9.38 | 5.28 | -51.47 | -13.00 | -38.47 |
| 2498.00 | 50.54 | H | -50.20 | 10.06 | 6.57 | -46.71 | -13.00 | -33.71 |
| 3346.40 | --- | H | | 12.28 | 7.79 | | -13.00 | |
| 4183.00 | --- | H | | 12.62 | 8.93 | | -13.00 | |
| 5019.60 | --- | H | | 12.67 | 9.81 | | -13.00 | |
| 5856.20 | --- | H | | 13.68 | 10.62 | | -13.00 | |
| 6692.80 | --- | H | | 11.95 | 11.39 | | -13.00 | |
| 7529.40 | --- | H | | 11.45 | 12.20 | | -13.00 | |
| 8366.00 | --- | H | | 11.59 | 12.81 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|-------------------|------------|---------------|
| Operation Mode | : TX CH High Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 38.99 | V | -69.42 | -0.55 | 1.11 | -71.08 | -13.00 | -58.08 |
| 77.53 | 42.23 | V | -69.19 | -2.12 | 1.21 | -72.52 | -13.00 | -59.52 |
| 90.14 | 43.34 | V | -59.84 | -7.75 | 1.27 | -68.86 | -13.00 | -55.86 |
| 104.69 | 41.70 | V | -59.79 | -7.76 | 1.38 | -68.93 | -13.00 | -55.93 |
| 676.99 | 35.35 | V | -53.85 | -7.84 | 3.23 | -64.92 | -13.00 | -51.92 |
| 722.58 | 32.90 | V | -55.49 | -7.86 | 3.37 | -66.72 | -13.00 | -53.72 |
| 849.00 | 79.13 | V | -6.79 | -7.88 | 3.68 | -18.35 | -13.00 | -5.35 |
| 1693.00 | 50.59 | V | -53.95 | 9.42 | 5.30 | -49.83 | -13.00 | -36.83 |
| 2533.00 | 39.91 | V | -60.79 | 10.16 | 6.61 | -57.24 | -13.00 | -44.24 |
| 2546.40 | --- | V | | 10.20 | 6.63 | | -13.00 | |
| 3395.20 | --- | V | | 12.38 | 7.87 | | -13.00 | |
| 4244.00 | --- | V | | 12.63 | 9.00 | | -13.00 | |
| 5092.80 | --- | V | | 12.74 | 9.88 | | -13.00 | |
| 5941.60 | --- | V | | 13.81 | 10.70 | | -13.00 | |
| 6790.40 | --- | V | | 11.86 | 11.48 | | -13.00 | |
| 7639.20 | --- | V | | 11.40 | 12.27 | | -13.00 | |
| 8488.00 | --- | V | | 11.70 | 12.91 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|-------------------|------------|---------------|
| Operation Mode | : TX CH High Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 38.94 | H | -69.50 | -0.55 | 1.11 | -71.17 | -13.00 | -58.17 |
| 90.14 | 41.33 | H | -62.40 | -7.75 | 1.27 | -71.42 | -13.00 | -58.42 |
| 104.69 | 38.29 | H | -64.22 | -7.76 | 1.38 | -73.36 | -13.00 | -60.36 |
| 560.59 | 33.93 | H | -57.57 | -7.77 | 2.97 | -68.32 | -13.00 | -55.32 |
| 618.79 | 37.87 | H | -52.46 | -7.80 | 3.08 | -63.34 | -13.00 | -50.34 |
| 676.99 | 41.81 | H | -46.78 | -7.84 | 3.23 | -57.85 | -13.00 | -44.85 |
| 849.03 | 83.76 | H | -5.27 | -7.88 | 3.68 | -16.83 | -13.00 | -3.83 |
| 1693.00 | 48.14 | H | -56.21 | 9.42 | 5.30 | -52.09 | -13.00 | -39.09 |
| 2533.00 | 51.96 | H | -48.68 | 10.16 | 6.61 | -45.13 | -13.00 | -32.13 |
| 2546.40 | --- | H | | 10.20 | 6.63 | | -13.00 | |
| 3395.20 | --- | H | | 12.38 | 7.87 | | -13.00 | |
| 4244.00 | --- | H | | 12.63 | 9.00 | | -13.00 | |
| 5092.80 | --- | H | | 12.74 | 9.88 | | -13.00 | |
| 5941.60 | --- | H | | 13.81 | 10.70 | | -13.00 | |
| 6790.40 | --- | H | | 11.86 | 11.48 | | -13.00 | |
| 7639.20 | --- | H | | 11.40 | 12.27 | | -13.00 | |
| 8488.00 | --- | H | | 11.70 | 12.91 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Low Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 40.23 | V | -68.18 | -0.55 | 1.11 | -69.84 | -13.00 | -56.84 |
| 90.14 | 45.03 | V | -58.15 | -7.75 | 1.27 | -67.17 | -13.00 | -54.17 |
| 96.93 | 42.40 | V | -59.91 | -7.76 | 1.33 | -69.00 | -13.00 | -56.00 |
| 106.63 | 42.89 | V | -58.42 | -7.77 | 1.39 | -67.57 | -13.00 | -54.57 |
| 603.27 | 32.11 | V | -57.42 | -7.79 | 3.04 | -68.25 | -13.00 | -55.25 |
| 914.64 | 32.01 | V | -52.70 | -7.96 | 3.82 | -64.48 | -13.00 | -51.48 |
| 1849.99 | 70.20 | V | -34.19 | 9.90 | 5.56 | -29.85 | -13.00 | -16.85 |
| 3700.00 | 34.60 | V | -63.33 | 12.61 | 8.31 | -59.03 | -13.00 | -46.03 |
| 5550.60 | --- | V | | 13.23 | 10.33 | | -13.00 | |
| 7400.80 | --- | V | | 11.50 | 12.08 | | -13.00 | |
| 9251.00 | --- | V | | 11.92 | 13.50 | | -13.00 | |
| 11101.20 | --- | V | | 11.66 | 15.11 | | -13.00 | |
| 12951.40 | --- | V | | 13.63 | 16.60 | | -13.00 | |
| 14801.60 | --- | V | | 12.76 | 17.95 | | -13.00 | |
| 16651.80 | --- | V | | 15.92 | 19.14 | | -13.00 | |
| 18502.00 | --- | V | | 18.75 | 10.40 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Low Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 40.35 | H | -68.09 | -0.55 | 1.11 | -69.76 | -13.00 | -56.76 |
| 90.14 | 42.75 | H | -60.98 | -7.75 | 1.27 | -70.00 | -13.00 | -57.00 |
| 96.93 | 38.40 | H | -64.83 | -7.76 | 1.33 | -73.92 | -13.00 | -60.92 |
| 148.34 | 32.82 | H | -65.12 | -7.80 | 1.58 | -74.50 | -13.00 | -61.50 |
| 681.84 | 32.32 | H | -56.07 | -7.84 | 3.24 | -67.15 | -13.00 | -54.15 |
| 963.14 | 32.07 | H | -52.06 | -8.00 | 3.92 | -63.98 | -13.00 | -50.98 |
| 1849.99 | 82.73 | H | -21.45 | 9.90 | 5.56 | -17.11 | -13.00 | -4.11 |
| 3700.00 | 34.98 | H | -63.07 | 12.61 | 8.31 | -58.77 | -13.00 | -45.77 |
| 5550.60 | --- | H | | 13.23 | 10.33 | | -13.00 | |
| 7400.80 | --- | H | | 11.50 | 12.08 | | -13.00 | |
| 9251.00 | --- | H | | 11.92 | 13.50 | | -13.00 | |
| 11101.20 | --- | H | | 11.66 | 15.11 | | -13.00 | |
| 12951.40 | --- | H | | 13.63 | 16.60 | | -13.00 | |
| 14801.60 | --- | H | | 12.76 | 17.95 | | -13.00 | |
| 16651.80 | --- | H | | 15.92 | 19.14 | | -13.00 | |
| 18502.00 | --- | H | | 18.75 | 10.40 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Mid Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1880MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 40.80 | V | -67.61 | -0.55 | 1.11 | -69.27 | -13.00 | -56.27 |
| 77.53 | 43.99 | V | -67.43 | -2.12 | 1.21 | -70.76 | -13.00 | -57.76 |
| 90.14 | 44.43 | V | -58.75 | -7.75 | 1.27 | -67.77 | -13.00 | -54.77 |
| 96.93 | 41.60 | V | -60.71 | -7.76 | 1.33 | -69.80 | -13.00 | -56.80 |
| 106.63 | 42.30 | V | -59.01 | -7.77 | 1.39 | -68.16 | -13.00 | -55.16 |
| 737.13 | 32.17 | V | -55.54 | -7.87 | 3.42 | -66.83 | -13.00 | -53.83 |
| 3758.00 | 37.74 | V | -59.93 | 12.60 | 8.39 | -55.71 | -13.00 | -42.71 |
| 5640.00 | --- | V | | 13.36 | 10.41 | | -13.00 | |
| 7520.00 | --- | V | | 11.45 | 12.19 | | -13.00 | |
| 9400.00 | --- | V | | 11.93 | 13.61 | | -13.00 | |
| 11280.00 | --- | V | | 11.92 | 15.27 | | -13.00 | |
| 13160.00 | --- | V | | 13.33 | 16.71 | | -13.00 | |
| 15040.00 | --- | V | | 13.76 | 18.15 | | -13.00 | |
| 16920.00 | --- | V | | 15.27 | 19.32 | | -13.00 | |
| 18800.00 | --- | V | | 18.68 | 16.58 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Mid Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1880MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 39.94 | H | -68.50 | -0.55 | 1.11 | -70.17 | -13.00 | -57.17 |
| 90.14 | 42.26 | H | -61.47 | -7.75 | 1.27 | -70.49 | -13.00 | -57.49 |
| 106.63 | 38.01 | H | -64.30 | -7.77 | 1.39 | -73.45 | -13.00 | -60.45 |
| 155.13 | 34.32 | H | -63.85 | -7.80 | 1.60 | -73.25 | -13.00 | -60.25 |
| 773.99 | 32.40 | H | -59.47 | -7.87 | 3.52 | -70.86 | -13.00 | -57.86 |
| 892.33 | 32.43 | H | -52.63 | -7.94 | 3.77 | -64.34 | -13.00 | -51.34 |
| 3760.00 | 34.49 | H | -63.28 | 12.60 | 8.39 | -59.07 | -13.00 | -46.07 |
| 5640.00 | --- | H | | 13.36 | 10.41 | | -13.00 | |
| 7520.00 | --- | H | | 11.45 | 12.19 | | -13.00 | |
| 9400.00 | --- | H | | 11.93 | 13.61 | | -13.00 | |
| 11280.00 | --- | H | | 11.92 | 15.27 | | -13.00 | |
| 13160.00 | --- | H | | 13.33 | 16.71 | | -13.00 | |
| 15040.00 | --- | H | | 13.76 | 18.15 | | -13.00 | |
| 16920.00 | --- | H | | 15.27 | 19.32 | | -13.00 | |
| 18800.00 | --- | H | | 18.68 | 16.58 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|-------------------|------------|---------------|
| Operation Mode | : TX CH High Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1909.8 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 40.65 | V | -67.76 | -0.55 | 1.11 | -69.42 | -13.00 | -56.42 |
| 77.53 | 43.80 | V | -67.62 | -2.12 | 1.21 | -70.95 | -13.00 | -57.95 |
| 90.14 | 45.26 | V | -57.92 | -7.75 | 1.27 | -66.94 | -13.00 | -53.94 |
| 94.99 | 42.58 | V | -59.98 | -7.75 | 1.31 | -69.05 | -13.00 | -56.05 |
| 104.69 | 43.65 | V | -57.84 | -7.76 | 1.38 | -66.98 | -13.00 | -53.98 |
| 775.93 | 32.57 | V | -54.30 | -7.87 | 3.52 | -65.69 | -13.00 | -52.69 |
| 1910.03 | 67.07 | V | -30.79 | 10.08 | 5.66 | -26.37 | -13.00 | -13.37 |
| 3814.00 | 37.11 | V | -60.31 | 12.60 | 8.46 | -56.17 | -13.00 | -43.17 |
| 5729.40 | --- | V | | 13.49 | 10.50 | | -13.00 | |
| 7639.20 | --- | V | | 11.40 | 12.27 | | -13.00 | |
| 9549.00 | --- | V | | 11.95 | 13.74 | | -13.00 | |
| 11458.80 | --- | V | | 12.17 | 15.43 | | -13.00 | |
| 13368.60 | --- | V | | 12.97 | 16.82 | | -13.00 | |
| 15278.40 | --- | V | | 15.00 | 18.29 | | -13.00 | |
| 17188.20 | --- | V | | 14.47 | 19.52 | | -13.00 | |
| 19098.00 | --- | V | | 18.66 | 20.78 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|-------------------|------------|---------------|
| Operation Mode | : TX CH High Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1909.8 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 39.60 | H | -68.84 | -0.55 | 1.11 | -70.51 | -13.00 | -57.51 |
| 90.14 | 42.53 | H | -61.20 | -7.75 | 1.27 | -70.22 | -13.00 | -57.22 |
| 104.69 | 38.60 | H | -63.91 | -7.76 | 1.38 | -73.05 | -13.00 | -60.05 |
| 261.83 | 36.12 | H | -62.73 | -7.90 | 2.03 | -72.66 | -13.00 | -59.66 |
| 769.14 | 32.45 | H | -60.46 | -7.87 | 3.51 | -71.84 | -13.00 | -58.84 |
| 870.99 | 32.88 | H | -52.75 | -7.91 | 3.73 | -64.38 | -13.00 | -51.38 |
| 1910.00 | 78.38 | H | -26.75 | 10.08 | 5.66 | -22.33 | -13.00 | -9.33 |
| 3819.00 | 35.47 | H | -62.04 | 12.60 | 8.47 | -57.90 | -13.00 | -44.90 |
| 5729.40 | --- | H | | 13.49 | 10.50 | | -13.00 | |
| 7639.20 | --- | H | | 11.40 | 12.27 | | -13.00 | |
| 9549.00 | --- | H | | 11.95 | 13.74 | | -13.00 | |
| 11458.80 | --- | H | | 12.17 | 15.43 | | -13.00 | |
| 13368.60 | --- | H | | 12.97 | 16.82 | | -13.00 | |
| 15278.40 | --- | H | | 15.00 | 18.29 | | -13.00 | |
| 17188.20 | --- | H | | 14.47 | 19.52 | | -13.00 | |
| 19098.00 | --- | H | | 18.66 | 20.78 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Low Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1852.4MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 56.19 | 41.10 | V | -68.56 | -0.51 | 1.09 | -70.17 | -13.00 | -57.17 |
| 92.08 | 43.28 | V | -59.65 | -7.75 | 1.29 | -68.69 | -13.00 | -55.69 |
| 104.69 | 46.29 | V | -55.20 | -7.76 | 1.38 | -64.34 | -13.00 | -51.34 |
| 631.40 | 32.10 | V | -57.06 | -7.80 | 3.11 | -67.98 | -13.00 | -54.98 |
| 771.08 | 32.42 | V | -54.50 | -7.87 | 3.51 | -65.88 | -13.00 | -52.88 |
| 902.03 | 31.99 | V | -52.75 | -7.95 | 3.79 | -64.50 | -13.00 | -51.50 |
| 1849.98 | 55.58 | V | -38.71 | 9.90 | 5.56 | -34.37 | -13.00 | -21.37 |
| 3709.00 | 42.85 | V | -55.04 | 12.61 | 8.32 | -50.75 | -13.00 | -37.75 |
| 5557.20 | --- | V | | 13.24 | 10.33 | | -13.00 | |
| 7409.60 | --- | V | | 11.49 | 12.09 | | -13.00 | |
| 9262.00 | --- | V | | 11.92 | 13.51 | | -13.00 | |
| 11114.40 | --- | V | | 11.68 | 15.12 | | -13.00 | |
| 12966.80 | --- | V | | 13.62 | 16.61 | | -13.00 | |
| 14819.20 | --- | V | | 12.83 | 17.96 | | -13.00 | |
| 16671.60 | --- | V | | 15.87 | 19.15 | | -13.00 | |
| 18524.00 | --- | V | | 18.74 | 10.86 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Low Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1852.4MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 40.21 | H | -68.23 | -0.55 | 1.11 | -69.90 | -13.00 | -56.90 |
| 90.14 | 40.77 | H | -62.96 | -7.75 | 1.27 | -71.98 | -13.00 | -58.98 |
| 104.69 | 38.61 | H | -63.90 | -7.76 | 1.38 | -73.04 | -13.00 | -60.04 |
| 688.63 | 32.35 | H | -55.76 | -7.85 | 3.26 | -66.86 | -13.00 | -53.86 |
| 819.58 | 32.13 | H | -54.15 | -7.87 | 3.61 | -65.64 | -13.00 | -52.64 |
| 929.19 | 32.57 | H | -51.91 | -7.98 | 3.84 | -63.73 | -13.00 | -50.73 |
| 1849.87 | 67.56 | H | -37.03 | 9.90 | 5.56 | -32.69 | -13.00 | -19.69 |
| 3709.00 | 46.80 | H | -51.21 | 12.61 | 8.32 | -46.92 | -13.00 | -33.92 |
| 5557.20 | --- | H | | 13.24 | 10.33 | | -13.00 | |
| 7409.60 | --- | H | | 11.49 | 12.09 | | -13.00 | |
| 9262.00 | --- | H | | 11.92 | 13.51 | | -13.00 | |
| 11114.40 | --- | H | | 11.68 | 15.12 | | -13.00 | |
| 12966.80 | --- | H | | 13.62 | 16.61 | | -13.00 | |
| 14819.20 | --- | H | | 12.83 | 17.96 | | -13.00 | |
| 16671.60 | --- | H | | 15.87 | 19.15 | | -13.00 | |
| 18524.00 | --- | H | | 18.74 | 10.86 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Mid Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1880MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 56.19 | 41.07 | V | -68.59 | -0.51 | 1.09 | -70.20 | -13.00 | -57.20 |
| 90.14 | 43.08 | V | -60.10 | -7.75 | 1.27 | -69.12 | -13.00 | -56.12 |
| 104.69 | 45.59 | V | -55.90 | -7.76 | 1.38 | -65.04 | -13.00 | -52.04 |
| 725.49 | 32.05 | V | -56.20 | -7.87 | 3.38 | -67.45 | -13.00 | -54.45 |
| 780.78 | 32.65 | V | -54.18 | -7.87 | 3.53 | -65.58 | -13.00 | -52.58 |
| 914.64 | 31.81 | V | -52.90 | -7.96 | 3.82 | -64.68 | -13.00 | -51.68 |
| 3758.00 | 38.70 | V | -58.97 | 12.60 | 8.39 | -54.75 | -13.00 | -41.75 |
| 5640.00 | --- | V | | 13.36 | 10.41 | | -13.00 | |
| 7520.00 | --- | V | | 11.45 | 12.19 | | -13.00 | |
| 9400.00 | --- | V | | 11.93 | 13.61 | | -13.00 | |
| 11280.00 | --- | V | | 11.92 | 15.27 | | -13.00 | |
| 13160.00 | --- | V | | 13.33 | 16.71 | | -13.00 | |
| 15040.00 | --- | V | | 13.76 | 18.15 | | -13.00 | |
| 16920.00 | --- | V | | 15.27 | 19.32 | | -13.00 | |
| 18800.00 | --- | V | | 18.68 | 16.58 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Mid Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1880MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 39.85 | H | -68.59 | -0.55 | 1.11 | -70.26 | -13.00 | -57.26 |
| 90.14 | 40.71 | H | -63.02 | -7.75 | 1.27 | -72.04 | -13.00 | -59.04 |
| 104.69 | 39.51 | H | -63.00 | -7.76 | 1.38 | -72.14 | -13.00 | -59.14 |
| 708.03 | 32.47 | H | -56.66 | -7.86 | 3.32 | -67.84 | -13.00 | -54.84 |
| 778.84 | 32.08 | H | -58.76 | -7.87 | 3.53 | -70.16 | -13.00 | -57.16 |
| 906.88 | 34.46 | H | -50.30 | -7.96 | 3.80 | -62.06 | -13.00 | -49.06 |
| 3758.00 | 41.84 | H | -55.94 | 12.60 | 8.39 | -51.73 | -13.00 | -38.73 |
| 5640.00 | --- | H | | 13.36 | 10.41 | | -13.00 | |
| 7520.00 | --- | H | | 11.45 | 12.19 | | -13.00 | |
| 9400.00 | --- | H | | 11.93 | 13.61 | | -13.00 | |
| 11280.00 | --- | H | | 11.92 | 15.27 | | -13.00 | |
| 13160.00 | --- | H | | 13.33 | 16.71 | | -13.00 | |
| 15040.00 | --- | H | | 13.76 | 18.15 | | -13.00 | |
| 16920.00 | --- | H | | 15.27 | 19.32 | | -13.00 | |
| 18800.00 | --- | H | | 18.68 | 16.58 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

| | | | |
|-----------------------|-------------------|------------|---------------|
| Operation Mode | : TX CH High Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1907.6 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 56.19 | 40.99 | V | -68.67 | -0.51 | 1.09 | -70.28 | -13.00 | -57.28 |
| 77.53 | 45.27 | V | -66.15 | -2.12 | 1.21 | -69.48 | -13.00 | -56.48 |
| 90.14 | 43.18 | V | -60.00 | -7.75 | 1.27 | -69.02 | -13.00 | -56.02 |
| 104.69 | 44.93 | V | -56.56 | -7.76 | 1.38 | -65.70 | -13.00 | -52.70 |
| 741.98 | 31.49 | V | -55.99 | -7.87 | 3.44 | -67.30 | -13.00 | -54.30 |
| 875.84 | 31.79 | V | -53.62 | -7.92 | 3.74 | -65.27 | -13.00 | -52.27 |
| 951.13 | 32.46 | V | -43.88 | 10.08 | 5.66 | -39.46 | -13.00 | -26.46 |
| 1910.17 | 55.21 | V | -49.12 | 10.08 | 5.66 | -44.70 | -13.00 | -31.70 |
| 3814.00 | 43.02 | V | -54.40 | 12.60 | 8.46 | -50.26 | -13.00 | -37.26 |
| 5722.80 | --- | V | | 13.48 | 10.49 | | -13.00 | |
| 7630.40 | --- | V | | 11.41 | 12.27 | | -13.00 | |
| 9538.00 | --- | V | | 11.95 | 13.73 | | -13.00 | |
| 11445.60 | --- | V | | 12.15 | 15.42 | | -13.00 | |
| 13353.20 | --- | V | | 13.00 | 16.81 | | -13.00 | |
| 15260.80 | --- | V | | 14.91 | 18.28 | | -13.00 | |
| 17168.40 | --- | V | | 14.53 | 19.50 | | -13.00 | |
| 19076.00 | --- | V | | 18.65 | 20.76 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

| | | | |
|-----------------------|-------------------|------------|---------------|
| Operation Mode | : TX CH High Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 1907.6 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 40.45 | H | -67.99 | -0.55 | 1.11 | -69.66 | -13.00 | -56.66 |
| 77.53 | 41.50 | H | -70.88 | -2.12 | 1.21 | -74.20 | -13.00 | -61.20 |
| 90.14 | 39.87 | H | -63.86 | -7.75 | 1.27 | -72.88 | -13.00 | -59.88 |
| 104.69 | 39.03 | H | -63.48 | -7.76 | 1.38 | -72.62 | -13.00 | -59.62 |
| 778.84 | 32.87 | H | -57.97 | -7.87 | 3.53 | -69.37 | -13.00 | -56.37 |
| 922.40 | 31.62 | H | -52.94 | -7.97 | 3.83 | -64.75 | -13.00 | -51.75 |
| 1910.15 | 70.59 | H | -41.53 | 10.08 | 5.66 | -37.11 | -13.00 | -24.11 |
| 3814.00 | 44.20 | H | -53.33 | 12.60 | 8.46 | -49.19 | -13.00 | -36.19 |
| 5722.80 | --- | H | | 13.48 | 10.49 | | -13.00 | |
| 7630.40 | --- | H | | 11.41 | 12.27 | | -13.00 | |
| 9538.00 | --- | H | | 11.95 | 13.73 | | -13.00 | |
| 11445.60 | --- | H | | 12.15 | 15.42 | | -13.00 | |
| 13353.20 | --- | H | | 13.00 | 16.81 | | -13.00 | |
| 15260.80 | --- | H | | 14.91 | 18.28 | | -13.00 | |
| 17168.40 | --- | H | | 14.53 | 19.50 | | -13.00 | |
| 19076.00 | --- | H | | 18.65 | 20.76 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Low Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 826.4 MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 38.50 | V | -69.91 | -0.55 | 1.11 | -71.57 | -13.00 | -58.57 |
| 90.14 | 39.26 | V | -63.92 | -7.75 | 1.27 | -72.94 | -13.00 | -59.94 |
| 104.69 | 39.62 | V | -61.87 | -7.76 | 1.38 | -71.01 | -13.00 | -58.01 |
| 153.19 | 31.78 | V | -65.80 | -7.80 | 1.60 | -75.20 | -13.00 | -62.20 |
| 643.04 | 32.18 | V | -56.83 | -7.81 | 3.14 | -67.78 | -13.00 | -54.78 |
| 965.08 | 33.40 | V | -50.87 | -8.00 | 3.93 | -62.80 | -13.00 | -49.80 |
| 823.82 | 59.33 | V | -27.30 | -7.87 | 3.62 | -38.80 | -13.00 | -25.80 |
| 2484.00 | 36.75 | V | -64.18 | 10.07 | 6.55 | -60.66 | -13.00 | -47.66 |
| 3303.00 | 40.48 | V | -58.39 | 12.18 | 7.72 | -53.93 | -13.00 | -40.93 |
| 4129.00 | 39.34 | V | -56.75 | 12.62 | 8.87 | -53.01 | -13.00 | -40.01 |
| 4132.00 | --- | V | | 12.62 | 8.87 | | -13.00 | |
| 4958.40 | --- | V | | 12.65 | 9.75 | | -13.00 | |
| 5784.80 | --- | V | | 13.58 | 10.55 | | -13.00 | |
| 6611.20 | --- | V | | 12.03 | 11.31 | | -13.00 | |
| 7437.60 | --- | V | | 11.48 | 12.12 | | -13.00 | |
| 8264.00 | --- | V | | 11.50 | 12.73 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Low Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 826.4MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 38.85 | H | -69.59 | -0.55 | 1.11 | -71.26 | -13.00 | -58.26 |
| 90.14 | 37.94 | H | -65.79 | -7.75 | 1.27 | -74.81 | -13.00 | -61.81 |
| 99.84 | 37.65 | H | -65.36 | -7.76 | 1.36 | -74.48 | -13.00 | -61.48 |
| 716.76 | 33.17 | H | -57.59 | -7.86 | 3.35 | -68.81 | -13.00 | -55.81 |
| 929.19 | 33.03 | H | -51.45 | -7.98 | 3.84 | -63.27 | -13.00 | -50.27 |
| 963.14 | 32.70 | H | -51.43 | -8.00 | 3.92 | -63.35 | -13.00 | -50.35 |
| 823.81 | 67.90 | H | -22.21 | -7.87 | 3.62 | -33.71 | -13.00 | -20.71 |
| 2484.00 | 38.18 | H | -62.65 | 10.07 | 6.55 | -59.13 | -13.00 | -46.13 |
| 3303.00 | 44.33 | H | -54.76 | 12.18 | 7.72 | -50.30 | -13.00 | -37.30 |
| 4129.00 | 38.25 | H | -57.98 | 12.62 | 8.87 | -54.23 | -13.00 | -41.23 |
| 4958.40 | --- | H | | 12.65 | 9.75 | | -13.00 | |
| 5784.80 | --- | H | | 13.58 | 10.55 | | -13.00 | |
| 6611.20 | --- | H | | 12.03 | 11.31 | | -13.00 | |
| 7437.60 | --- | H | | 11.48 | 12.12 | | -13.00 | |
| 8264.00 | --- | H | | 11.50 | 12.73 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Mid Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 836.6MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 38.70 | V | -69.71 | -0.55 | 1.11 | -71.37 | -13.00 | -58.37 |
| 90.14 | 40.13 | V | -63.05 | -7.75 | 1.27 | -72.07 | -13.00 | -59.07 |
| 106.63 | 40.86 | V | -60.45 | -7.77 | 1.39 | -69.60 | -13.00 | -56.60 |
| 150.28 | 32.00 | V | -65.32 | -7.80 | 1.59 | -74.71 | -13.00 | -61.71 |
| 761.38 | 32.38 | V | -54.63 | -7.87 | 3.49 | -65.99 | -13.00 | -52.99 |
| 931.13 | 33.37 | V | -51.30 | -7.98 | 3.85 | -63.13 | -13.00 | -50.13 |
| 1658.00 | 35.58 | V | -69.00 | 9.32 | 5.24 | -64.92 | -13.00 | -51.92 |
| 2498.00 | 40.23 | V | -60.60 | 10.06 | 6.57 | -57.11 | -13.00 | -44.11 |
| 3338.00 | 42.24 | V | -56.62 | 12.26 | 7.78 | -52.14 | -13.00 | -39.14 |
| 4178.00 | 38.04 | V | -57.87 | 12.62 | 8.93 | -54.17 | -13.00 | -41.17 |
| 5019.60 | --- | V | | 12.67 | 9.81 | | -13.00 | |
| 5856.20 | --- | V | | 13.68 | 10.62 | | -13.00 | |
| 6692.80 | --- | V | | 11.95 | 11.39 | | -13.00 | |
| 7529.40 | --- | V | | 11.45 | 12.20 | | -13.00 | |
| 8366.00 | --- | V | | 11.59 | 12.81 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

| | | | |
|-----------------------|------------------|------------|---------------|
| Operation Mode | : TX CH Mid Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 836.6MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 38.72 | H | -69.72 | -0.55 | 1.11 | -71.39 | -13.00 | -58.39 |
| 90.14 | 37.43 | H | -66.30 | -7.75 | 1.27 | -75.32 | -13.00 | -62.32 |
| 104.69 | 37.16 | H | -65.35 | -7.76 | 1.38 | -74.49 | -13.00 | -61.49 |
| 155.13 | 32.11 | H | -66.06 | -7.80 | 1.60 | -75.46 | -13.00 | -62.46 |
| 710.94 | 33.84 | H | -55.84 | -7.86 | 3.33 | -67.03 | -13.00 | -54.03 |
| 926.28 | 33.28 | H | -51.23 | -7.98 | 3.84 | -63.05 | -13.00 | -50.05 |
| 1658.00 | 38.80 | H | -65.59 | 9.32 | 5.24 | -61.52 | -13.00 | -48.52 |
| 2498.00 | 45.45 | H | -55.29 | 10.06 | 6.57 | -51.80 | -13.00 | -38.80 |
| 3338.00 | 46.79 | H | -52.28 | 12.26 | 7.78 | -47.80 | -13.00 | -34.80 |
| 4178.00 | 36.93 | H | -59.12 | 12.62 | 8.93 | -55.42 | -13.00 | -42.42 |
| 5019.60 | --- | H | | 12.67 | 9.81 | | -13.00 | |
| 5856.20 | --- | H | | 13.68 | 10.62 | | -13.00 | |
| 6692.80 | --- | H | | 11.95 | 11.39 | | -13.00 | |
| 7529.40 | --- | H | | 11.45 | 12.20 | | -13.00 | |
| 8366.00 | --- | H | | 11.59 | 12.81 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

| | | | |
|-----------------------|-------------------|------------|---------------|
| Operation Mode | : TX CH High Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 846.6MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 39.04 | V | -69.37 | -0.55 | 1.11 | -71.03 | -13.00 | -58.03 |
| 90.14 | 39.84 | V | -63.34 | -7.75 | 1.27 | -72.36 | -13.00 | -59.36 |
| 104.69 | 41.02 | V | -60.47 | -7.76 | 1.38 | -69.61 | -13.00 | -56.61 |
| 620.73 | 31.94 | V | -57.36 | -7.80 | 3.08 | -68.24 | -13.00 | -55.24 |
| 720.64 | 32.85 | V | -55.63 | -7.86 | 3.36 | -66.86 | -13.00 | -53.86 |
| 919.49 | 33.15 | V | -51.55 | -7.97 | 3.83 | -63.34 | -13.00 | -50.34 |
| 849.09 | 59.06 | V | -26.60 | -7.88 | 3.68 | -38.16 | -13.00 | -25.16 |
| 1693.00 | 37.99 | V | -66.55 | 9.42 | 5.30 | -62.43 | -13.00 | -49.43 |
| 2533.00 | 41.15 | V | -59.55 | 10.16 | 6.61 | -56.00 | -13.00 | -43.00 |
| 3394.00 | 42.92 | V | -55.93 | 12.38 | 7.86 | -51.42 | -13.00 | -38.42 |
| 4234.00 | 36.45 | V | -59.25 | 12.63 | 8.99 | -55.61 | -13.00 | -42.61 |
| 5079.60 | --- | V | | 12.73 | 9.87 | | -13.00 | |
| 5926.20 | --- | V | | 13.79 | 10.69 | | -13.00 | |
| 6772.80 | --- | V | | 11.87 | 11.47 | | -13.00 | |
| 7619.40 | --- | V | | 11.41 | 12.26 | | -13.00 | |
| 8466.00 | --- | V | | 11.68 | 12.89 | | -13.00 | |

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

Remark:

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

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

| | | | |
|-----------------------|-------------------|------------|---------------|
| Operation Mode | : TX CH High Mode | Test Date: | Apr. 02, 2010 |
| Fundamental Frequency | : 846.6MHz | Test By: | Brian |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 53.28 | 39.47 | H | -68.97 | -0.55 | 1.11 | -70.64 | -13.00 | -57.64 |
| 90.14 | 36.87 | H | -66.86 | -7.75 | 1.27 | -75.88 | -13.00 | -62.88 |
| 104.69 | 36.43 | H | -66.08 | -7.76 | 1.38 | -75.22 | -13.00 | -62.22 |
| 158.04 | 32.16 | H | -66.23 | -7.81 | 1.61 | -75.65 | -13.00 | -62.65 |
| 717.73 | 33.04 | H | -57.91 | -7.86 | 3.35 | -69.12 | -13.00 | -56.12 |
| 958.29 | 33.28 | H | -50.88 | -8.00 | 3.90 | -62.78 | -13.00 | -49.78 |
| 849.02 | 64.58 | H | -23.89 | -7.88 | 3.68 | -35.45 | -13.00 | -22.45 |
| 1693.00 | 41.95 | H | -62.40 | 9.42 | 5.30 | -58.28 | -13.00 | -45.28 |
| 2533.00 | 44.07 | H | -56.57 | 10.16 | 6.61 | -53.02 | -13.00 | -40.02 |
| 3394.00 | 46.16 | H | -52.87 | 12.38 | 7.86 | -48.35 | -13.00 | -35.35 |
| 4234.00 | 37.98 | H | -57.87 | 12.63 | 8.99 | -54.23 | -13.00 | -41.23 |
| 5079.60 | --- | H | | 12.73 | 9.87 | | -13.00 | |
| 5926.20 | --- | H | | 13.79 | 10.69 | | -13.00 | |
| 6772.80 | --- | H | | 11.87 | 11.47 | | -13.00 | |
| 7619.40 | --- | H | | 11.41 | 12.26 | | -13.00 | |
| 8466.00 | --- | H | | 11.68 | 12.89 | | -13.00 | |

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

Remark:

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

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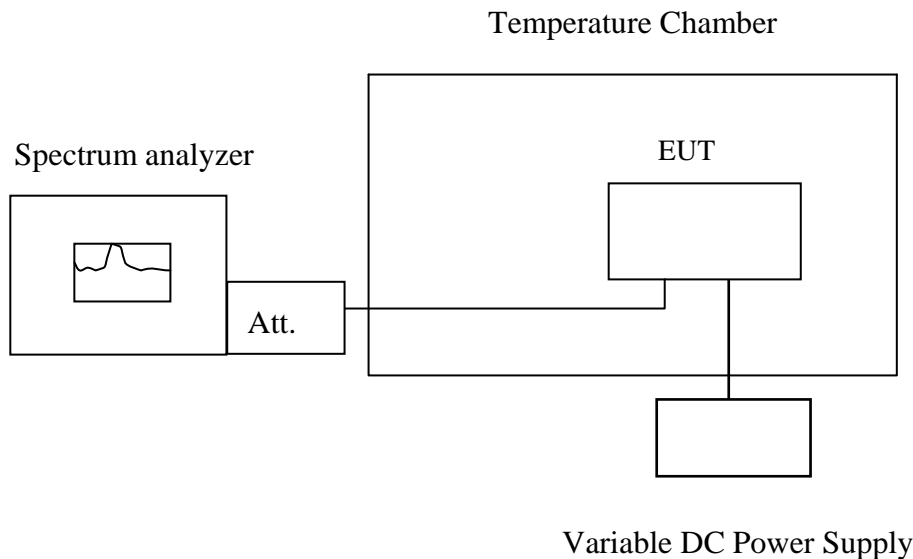
10 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1055(a)(1)

Frequency Tolerance: +/- 2.5 ppm

10.2 Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

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

10.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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10.5 Measurement Result

| Reference Frequency: GSM Mid Channel 836.6 MHz ^{°C} | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.3 | -30 | 836.599986 | -12.00 | 2091 |
| 3.3 | -20 | 836.599991 | -7.00 | 2091 |
| 3.3 | -10 | 836.599994 | -4.00 | 2091 |
| 3.3 | 0 | 836.599988 | -10.00 | 2091 |
| 3.3 | 10 | 836.599989 | -9.00 | 2091 |
| 3.3 | 20 | 836.599998 | 0.00 | 2091 |
| 3.3 | 30 | 836.599974 | -24.00 | 2091 |
| 3.3 | 40 | 836.599981 | -19.00 | 2091 |
| 3.3 | 50 | 836.599984 | -14.00 | 2091 |

| Reference Frequency: PCS Mid Channel 1880 MHz | | | | |
|---|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.3 | -30 | 1879.999959 | -15.00 | 4700 |
| 3.3 | -20 | 1879.999953 | -21.00 | 4700 |
| 3.3 | -10 | 1879.999950 | -24.00 | 4700 |
| 3.3 | 0 | 1879.999961 | -13.00 | 4700 |
| 3.3 | 10 | 1879.999945 | -29.00 | 4700 |
| 3.3 | 20 | 1879.999974 | 0.00 | 4700 |
| 3.3 | 30 | 1879.999938 | -36.00 | 4700 |
| 3.3 | 40 | 1879.999956 | -18.00 | 4700 |
| 3.3 | 50 | 1879.999961 | -13.00 | 4700 |

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| Reference Frequency: WCDMA II Mid Channel 1880 MHz | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.3 | -30 | 1880.000006 | 3.00 | 4700 |
| 3.3 | -20 | 1880.000004 | 2.00 | 4700 |
| 3.3 | -10 | 1880.000000 | -3.00 | 4700 |
| 3.3 | 0 | 1880.000004 | 1.00 | 4700 |
| 3.3 | 10 | 1880.000007 | 4.00 | 4700 |
| 3.3 | 20 | 1880.000003 | 0.00 | 4700 |
| 3.3 | 30 | 1879.999999 | -4.00 | 4700 |
| 3.3 | 40 | 1880.000000 | -3.00 | 4700 |
| 3.3 | 50 | 1880.000001 | -2.00 | 4700 |

| Reference Frequency: WCDMA V Mid Channel 836.6 MHz | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.3 | -30 | 836.599995 | -3.00 | 2091 |
| 3.3 | -20 | 836.599997 | -1.00 | 2091 |
| 3.3 | -10 | 836.599999 | 1.00 | 2091 |
| 3.3 | 0 | 836.599995 | -3.00 | 2091 |
| 3.3 | 10 | 836.600002 | 4.00 | 2091 |
| 3.3 | 20 | 836.599998 | 0.00 | 2091 |
| 3.3 | 30 | 836.599999 | 1.00 | 2091 |
| 3.3 | 40 | 836.599996 | -2.00 | 2091 |
| 3.3 | 50 | 836.600000 | 2.00 | 2091 |

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11 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(2)

Frequency Tolerance: +/- 2.5 ppm

11.2 Test Set-up:

Refer to section 10.2 in this report

11.3 Measurement Procedure

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

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

11.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5 Measurement Result

| Reference Frequency: GSM Mid Channel 836.6 MHz | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.6 | 25.00 | 836.599991 | -4.00 | 2091.00 |
| 3.3 | 25.00 | 836.599995 | 0.00 | 2091.00 |
| 3.2 (Endpoint) | 25.00 | 836.599982 | -13.00 | 2091.00 |

| Reference Frequency: PCS Mid Channel 1880 MHz | | | | |
|---|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.6 | 25 | 1879.999979 | -11.00 | 4700 |
| 3.3 | 25 | 1879.999990 | 0.00 | 4700 |
| 3.2 (Endpoint) | 25 | 1879.999959 | -31.00 | 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) | | |
| 3.6 | 25 | 1879.999998 | -5.00 | 4700 |
| 3.3 | 25 | 1880.000003 | 0.00 | 4700 |
| 3.2 (Endpoint) | 25 | 1880.000008 | 5.00 | 4700 |

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| Reference Frequency: WCDMA V Mid Channel 836.6 MHz | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.6 | 25.00 | 836.599997 | -1.00 | 2091.00 |
| 3.3 | 25.00 | 836.599998 | 0.00 | 2091.00 |
| 3.2 (Endpoint) | 25.00 | 836.599999 | 1.00 | 2091.00 |

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12. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

This submittal(s) (test report) is intended to comply with Section Part 22, subpart H and Part 24, subpart E of the FCC CFR 47 Rules. For 47 CFR 1.1310 Radio frequency Radiation Exposure requirement.

12.2. Special Accessories

Not available for this EUT intended for grant.

12.4. Equipment Modifications

Not available for this EUT intended for grant.

12.5. Limitation

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Averaging Time (minute) |
|---|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | F/1500 | 30 |
| 1500-15000 | / | / | 1.0 | 30 |

F = frequency in MHz

* = Plane-wave equipment power density

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12.6. Maximum Permissible Exposure (MPE) Evaluation

In this application we seek approval to the H18T. Based on the FCC OET Bulletin 65 Supplement C and 47 CFR §2.1091, we have concluded that the H18T module will comply with the FCC rules on RF exposure for mobile devices in cellular band and PCS band. The following analysis will demonstrate such compliance. The analysis will be done in two US bands.

Operation in cellular band (824 – 849 MHz)

The ERP of H18T in cellular band is 32.03dBm max at GSM/GPRS mode. The resulted power density at a distance of 20 cm can be deducted as follows:

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|---------------------|-----------------|-----|--------------|--------------------|-------------------|--------------------|-----------------|--------------|-------------|
| GPRS 850 (Class 12) | 824.20 | 128 | V | 120.33 | 33.94 | -7.87 | 3.62 | 22.44 | 38.45 |
| | | | H | 129.62 | 43.35 | -7.87 | 3.62 | 31.85 | 38.45 |
| | 836.60 | 190 | V | 121.76 | 35.51 | -7.88 | 3.65 | 23.98 | 38.45 |
| | | | H | 129.55 | 43.32 | -7.88 | 3.65 | 31.79 | 38.45 |
| | 848.80 | 251 | V | 122.56 | 36.44 | -7.88 | 3.68 | 24.88 | 38.45 |
| | | | H | 129.78 | 43.59 | -7.88 | 3.68 | 32.03 | 38.45 |

$$ERP = 32.03 \text{ dBm} = 1595.88 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= ERP * \text{Duty Cycle} / (4 \pi R^2) \\ &= 1595.88 * 0.5 / (4 * \pi * 20^2) = 0.1587 \text{ mW/cm}^2 \end{aligned}$$

where Duty Cycle is 0.5 for GPRS operation (class 12) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

$$MPE \text{ limit} = 848.8 / 1500 = 0.56 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore H18T in cellular band is compliant with the FCC rules on RF exposure.

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Operation in PCS band (1850 – 1910 MHz)

The EIRP of H18T in PCS band is 25.15dBm. max. The resulted EIRP can be expressed as follows:

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|----------------------|-----------------|-----|--------------|--------------------|-------------------|--------------------|-----------------|--------------|-------------|
| GPRS 1900 (Class 12) | 1850.20 | 512 | V | 113.70 | 9.31 | 9.90 | 5.56 | 13.65 | 33.00 |
| | | | H | 124.99 | 20.81 | 9.90 | 5.56 | 25.15 | 33.00 |
| | 1880.00 | 661 | V | 113.19 | 8.83 | 9.99 | 5.61 | 13.21 | 33.00 |
| | | | H | 124.64 | 20.50 | 9.99 | 5.61 | 24.87 | 33.00 |
| | 1909.80 | 810 | V | 115.85 | 11.52 | 10.08 | 5.66 | 15.94 | 33.00 |
| | | | H | 124.73 | 20.62 | 10.08 | 5.66 | 25.04 | 33.00 |

$$EIRP = 25.15 \text{ dBm} = 327.34 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= EIRP * \text{Duty Cycle} / (4 \pi R^2) \\ &= 327.34 * 0.5 / (4 * \pi * 20^2) = 0.0326 \text{ mW/cm}^2 \end{aligned}$$

where Duty Cycle is 0.5 for GPRS operation (class 12) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

$$MPE \text{ limit} = 1.0 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore H18T in PCS band is compliant with the FCC rules on RF exposure.

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Operation in WCDMA band II (1850 – 1910 MHz)

The ERP of H189T in cellular band is 25.38dBm max at WCDMA II mode. The resulted power density at a distance of 20 cm can be deducted as follows:

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|----------|-----------------|------|--------------|--------------------|-------------------|--------------------|-----------------|--------------|-------------|
| WCDMA II | 1852.40 | 9262 | V | 112.49 | 7.97 | 9.48 | 5.33 | 12.11 | 33.00 |
| | | | H | 125.57 | 21.24 | 9.48 | 5.33 | 25.38 | 33.00 |
| | 1880.00 | 9400 | V | 110.90 | 6.40 | 9.54 | 5.36 | 10.57 | 33.00 |
| | | | H | 123.59 | 19.28 | 9.54 | 5.36 | 23.45 | 33.00 |
| | 1907.60 | 9538 | V | 110.63 | 6.15 | 9.61 | 5.40 | 10.35 | 33.00 |
| | | | H | 124.67 | 20.38 | 9.61 | 5.40 | 24.59 | 33.00 |

$$\text{ERP} = 25.38 \text{ dBm} = 345.14 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= \text{ERP} * \text{Duty Cycle} / (4 \pi R^2) \\ &= 345.14 * 1 / (4 * \pi * 20^2) = 0.0687 \text{ mW/cm}^2 \end{aligned}$$

where Duty Cycle is 0.5 for GPRS operation (class 12) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

$$\text{MPE limit} = 1.0 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore H18T in cellular band is compliant with the FCC rules on RF exposure.

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Operation in WCDMA band V (826 – 849 MHz)

The EIRP of H18T in PCS band is 27.73dBm. max. The resulted EIRP can be expressed as follows:

| EUT Mode | Frequency (MHz) | CH | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|----------|-----------------|------|--------------|--------------------|-------------------|--------------------|-----------------|--------------|-------------|
| WCDMA V | 826.40 | 4132 | V | 115.27 | 28.91 | -7.88 | 3.63 | 17.40 | 38.45 |
| | | | H | 125.49 | 39.23 | -7.88 | 3.63 | 27.73 | 38.45 |
| | 836.60 | 4183 | V | 114.05 | 27.79 | -7.88 | 3.65 | 16.26 | 38.45 |
| | | | H | 123.93 | 37.70 | -7.88 | 3.65 | 26.17 | 38.45 |
| | 846.60 | 4233 | V | 115.18 | 29.03 | -7.88 | 3.67 | 17.48 | 38.45 |
| | | | H | 124.81 | 38.61 | -7.88 | 3.67 | 27.06 | 38.45 |

$$\text{EIRP} = 27.73 \text{ dBm} = 592.93 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= \text{EIRP} \cdot \text{Duty Cycle} / (4 \pi R^2) \\ &= 592.93 \cdot 1 / (4 \cdot \pi \cdot 20^2) = 0.1180 \text{ mW/cm}^2 \end{aligned}$$

where Duty Cycle is 0.5 for GPRS operation (class 12) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

$$\text{MPE limit} = 826.4 / 1500 = 0.55 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore H18T in PCS band is compliant with the FCC rules on RF exposure.

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