



Test Report

Product Name : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone

Model No. : HERC1(M580)

FCC ID. : JVPHERC1

Applicant : BenQ Corporation

Address : 157 Shan-Ying Road, Gueishan, Taoyuan
333, Taiwan, R.O.C..

Date of Receipt : Aug. 17, 2005

Issued Date : Sep. 05, 2005

Report No. : 058L123FI

Reference No. : KH-5062

The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.
This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issued Date : Sep. 05, 2005
Report No. : 058L123FI



Accredited by NIST (NVLAP)
NVLAP Lab Code: 200533-0

Product Name : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
Applicant : BenQ Corporation
Address : 157 Shan-Ying Road, Gueishan, Taoyuan 333, Taiwan, R.O.C..
Manufacturer : BenQ Corporation
Model No. : HERC1(M580)
FCC ID. : JVPHERC1
Rated Voltage : AC 110V/60Hz
EUT Voltage : DC 3.7V (Battery)
Trade Name : BenQ
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2005
ANSI C63.4: 2003
Test Result : Complied



The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.
This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Documented By :

(Rebeca Chi)



Tested By :

(Ryan Wu)

Approved By :

(Gene Chang)



0914

ILAC MRA

TABLE OF CONTENTS

| Description | Page |
|--|-----------|
| 1. GENERAL INFORMATION | 4 |
| 1.1. EUT Description..... | 4 |
| 1.2. Operational Description..... | 5 |
| 1.3. Tested System Details..... | 6 |
| 1.4. Configuration of Tested System | 6 |
| 1.5. EUT Exercise Software | 6 |
| 1.6. Test Facility | 7 |
| 2. CONDUCTED EMISSION | 8 |
| 2.1. Test Equipment..... | 8 |
| 2.2. Test Setup | 8 |
| 2.3. Limits..... | 8 |
| 2.4. Test Procedure | 9 |
| 2.5. Uncertainty | 9 |
| 2.6. Test Result of Conducted Emission..... | 10 |
| 3. PEAK POWER OUTPUT | 12 |
| 3.1. Test Equipment..... | 12 |
| 3.2. Test Setup | 12 |
| 3.3. Limit | 12 |
| 3.4. Uncertainty | 12 |
| 3.5. Test Result of Peak Power Output..... | 13 |
| 4. RADIATED EMISSION | 14 |
| 4.1. Test Equipment..... | 14 |
| 4.2. Test Setup | 14 |
| 4.3. Limits..... | 15 |
| 4.4. Test Procedure | 15 |
| 4.5. Uncertainty | 15 |
| 4.6. Test Result of Radiated Emission..... | 16 |
| 5. BAND EDGE | 22 |
| 5.1. Test Equipment..... | 22 |
| 5.2. Test Setup | 22 |
| 5.3. Limit | 23 |
| 5.4. Test Procedure | 23 |
| 5.5. Uncertainty | 23 |
| 5.6. Test Result of Band Edge | 24 |
| 6. CHANNEL NUMBER..... | 28 |
| 6.1. Test Equipment..... | 28 |
| 6.2. Test Setup | 28 |
| 6.3. Limit | 28 |
| 6.4. Uncertainty | 28 |
| 6.5. Test Result of Channel Number..... | 29 |
| 7. CHANNEL SEPARATION..... | 35 |
| 7.1. Test Equipment..... | 35 |
| 7.2. Test Setup | 35 |
| 7.3. Limit | 35 |
| 7.4. Uncertainty | 35 |
| 7.5. Test Result of Channel Separation..... | 36 |
| 8. DWELL TIME..... | 38 |
| 8.1. Test Equipment..... | 38 |
| 8.2. Test Setup | 38 |
| 8.3. Limit | 38 |
| 8.4. Uncertainty | 38 |
| 8.5. Test Result of Dwell Time | 39 |
| 9. EMI REDUCTION METHOD DURING COMPLIANCE TESTING | 41 |

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
Trade Name : BenQ
FCC ID. : JVPHERC1
Model No. : HERC1(M580)
Frequency Range : 2402MHz to 2480MHz
Antenna Gain : 0dBi
Channel Number : 79
Type of Modulation : Frequency Hopping Spread Spectrum
Antenna type : Chip Antenna
Handsfree : P/N: 2C.43035.111
Battery Pack : P/N: 2C.2G0M0.101, 870mAh
Charger : P/N: 2E.11060.XXX(X=0~9,A~Z or Blank)

Frequency of Each Channel:

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Channel 00: | 2402 MHz | Channel 20: | 2422 MHz | Channel 40: | 2442 MHz | Channel 60: | 2462 MHz |
| Channel 01: | 2403 MHz | Channel 21: | 2423 MHz | Channel 41: | 2443 MHz | Channel 61: | 2463 MHz |
| Channel 02: | 2404 MHz | Channel 22: | 2424 MHz | Channel 42: | 2444 MHz | Channel 62: | 2464 MHz |
| Channel 03: | 2405 MHz | Channel 23: | 2425 MHz | Channel 43: | 2445 MHz | Channel 63: | 2465 MHz |
| Channel 04: | 2406 MHz | Channel 24: | 2426 MHz | Channel 44: | 2446 MHz | Channel 64: | 2466 MHz |
| Channel 05: | 2407 MHz | Channel 25: | 2427 MHz | Channel 45: | 2447 MHz | Channel 65: | 2467 MHz |
| Channel 06: | 2408 MHz | Channel 26: | 2428 MHz | Channel 46: | 2448 MHz | Channel 66: | 2468 MHz |
| Channel 07: | 2409 MHz | Channel 27: | 2429 MHz | Channel 47: | 2449 MHz | Channel 67: | 2469 MHz |
| Channel 08: | 2410 MHz | Channel 28: | 2430 MHz | Channel 48: | 2450 MHz | Channel 68: | 2470 MHz |
| Channel 09: | 2411 MHz | Channel 29: | 2431 MHz | Channel 49: | 2451 MHz | Channel 69: | 2471 MHz |
| Channel 10: | 2412 MHz | Channel 30: | 2432 MHz | Channel 50: | 2452 MHz | Channel 70: | 2472 MHz |
| Channel 11: | 2413 MHz | Channel 31: | 2433 MHz | Channel 51: | 2453 MHz | Channel 71: | 2473 MHz |
| Channel 12: | 2414 MHz | Channel 32: | 2434 MHz | Channel 52: | 2454 MHz | Channel 72: | 2474 MHz |
| Channel 13: | 2415 MHz | Channel 33: | 2435 MHz | Channel 53: | 2455 MHz | Channel 73: | 2475 MHz |
| Channel 14: | 2416 MHz | Channel 34: | 2436 MHz | Channel 54: | 2456 MHz | Channel 74: | 2476 MHz |
| Channel 15: | 2417 MHz | Channel 35: | 2437 MHz | Channel 55: | 2457 MHz | Channel 75: | 2477 MHz |
| Channel 16: | 2418 MHz | Channel 36: | 2438 MHz | Channel 56: | 2458 MHz | Channel 76: | 2478 MHz |
| Channel 17: | 2419 MHz | Channel 37: | 2439 MHz | Channel 57: | 2459 MHz | Channel 77: | 2479 MHz |
| Channel 18: | 2420 MHz | Channel 38: | 2440 MHz | Channel 58: | 2460 MHz | Channel 78: | 2480 MHz |
| Channel 19: | 2421 MHz | Channel 39: | 2441 MHz | Channel 59: | 2461 MHz | | |

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. The transmitter is presented with a continuous data stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its 79 channels and over the minimum number of hopping channels (75 channels).

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Note:

1. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
2. Regards to the frequency band operation; the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
3. This device is a composite device in accordance with Part 15 regulations. The function for the receiver was measured and made a test report that the report number is 058L123F, certified under Declaration of Conformity.
4. QuieTek had verified among construction and function in typical operation, then shown in this test report.

1.2. Operational Description

The EUT is GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone with 79 channels of Bluetooth function. This device provides wireless technology that revolutionizes personal connectivity. It is the solution for the seamless integration of Bluetooth technology into personal computer enabling short-range wireless connections between desktop/laptop computers, mobile phone or PDA, Bluetooth-enabled peripherals, portable handheld devices.

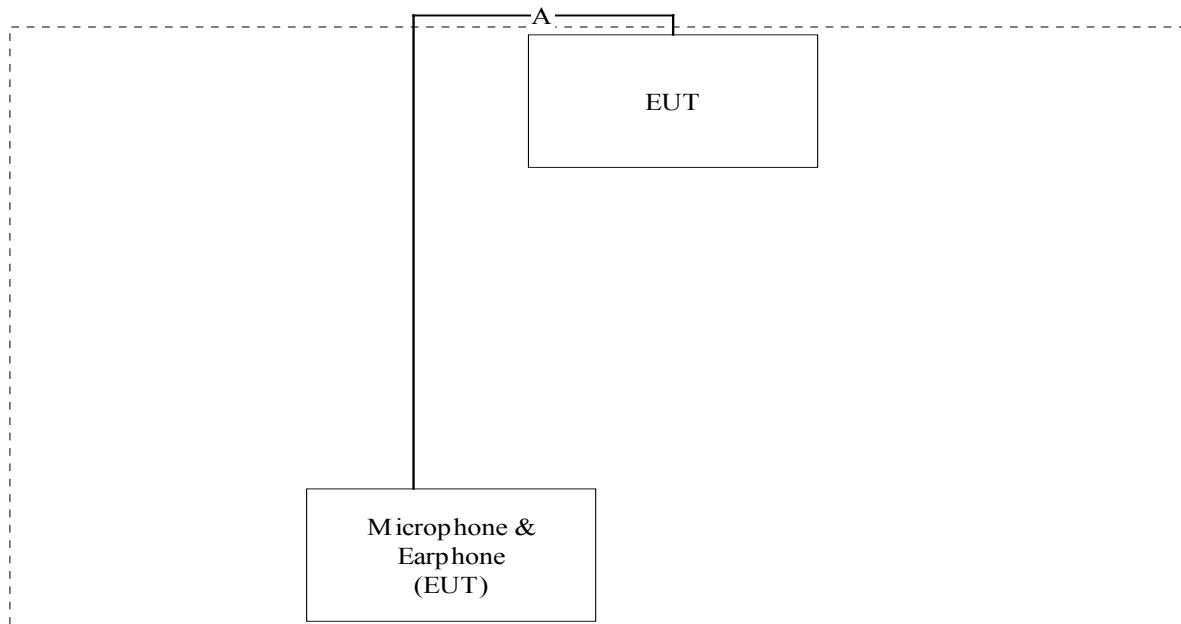
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | Manufacturer | Model No. | Serial No. | FCC ID | Power Cord |
|---------|--------------|-----------|------------|--------|------------|
| (1) N/A | N/A | N/A | N/A | N/A | N/A |

| Signal Cable Type | Signal cable Description |
|--------------------------------|--------------------------|
| A. Microphone & Earphone Cable | Non-Shieldede, 0.8m |

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT and simulators as shown on 1.4
- (2) Turn on the power of all equipment.
- (3) Messages will be transmitted and received through EUT.
- (4) Test is based on the mandatory continuous transmitter.
- (5) Repeat the above procedure (3) to (4).

1.6. Test Facility

Ambient conditions in the laboratory:

| Items | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|----------|
| Temperature (°C) | 15-35 | 20-35 |
| Humidity (%RH) | 25-75 | 50-65 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

Site Description: June 22, 2001 File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2



July 03, 2001 Accreditation on NVLAP
NVLAP Lab Code: 200533-0



Site Name: Quietek Corporation

Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com



2. Conducted Emission

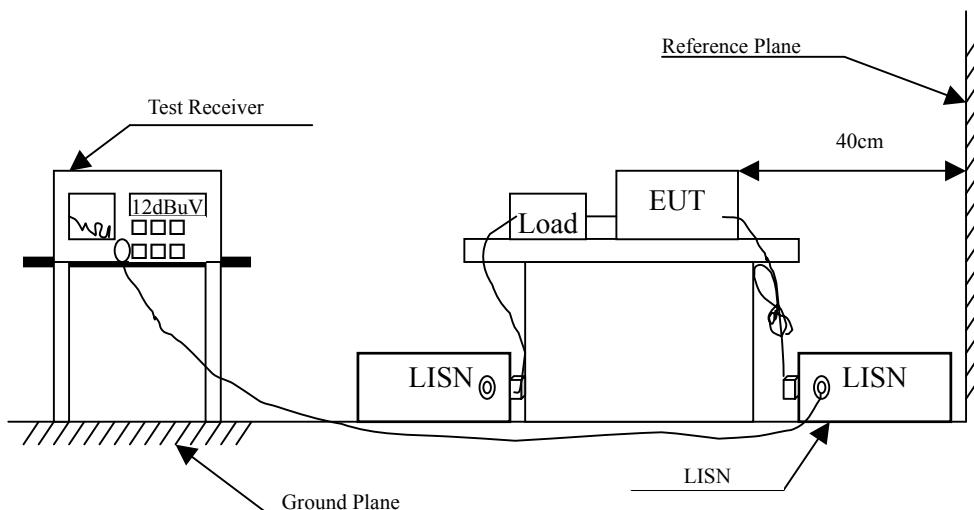
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

| Item | Instrument | Manufacturer | Type No./Serial No | Last Cal. | Remark |
|------|--------------------|--------------|--------------------|-----------|-------------|
| 1 | Test Receiver | R & S | ESCS 30/825442/17 | May, 2005 | |
| 2 | L.I.S.N. | R & S | ESH3-Z5/825016/6 | May, 2005 | EUT |
| 3 | L.I.S.N. | Kyoritsu | KNW-407/8-1420-3 | May, 2005 | Peripherals |
| 4 | Pulse Limiter | R & S | ESH3-Z2 | May, 2005 | |
| 5 | No.1 Shielded Room | | | | N/A |

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

| FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit | | |
|---|--------|-------|
| Frequency MHz | Limits | |
| | QP | AV |
| 0.15 - 0.50 | 66-56 | 56-46 |
| 0.50-5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

The measurement uncertainty is defined as \pm 2.02 dB

2.6. Test Result of Conducted Emission

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Channel 39

| Frequency MHz | Correct Factor | Reading Level dBuV | Measurement Level dBuV | Margin dB | Limit dBuV |
|-------------------|-------------------|--------------------------|------------------------------|--------------|---------------|
| LINE 1 | | | | | |
| Quasi-Peak | | | | | |
| 0.173 | 0.202 | 53.080 | 53.282 | -12.061 | 65.343 |
| 0.231 | 0.203 | 49.390 | 49.593 | -14.093 | 63.686 |
| *0.376 | 0.205 | 49.530 | 49.735 | -9.808 | 59.543 |
| 0.408 | 0.205 | 37.930 | 38.135 | -20.494 | 58.629 |
| 4.095 | 0.254 | 31.500 | 31.754 | -24.246 | 56.000 |
| 4.677 | 0.262 | 38.070 | 38.332 | -17.668 | 56.000 |
| Average | | | | | |
| 0.173 | 0.202 | 42.900 | 43.102 | -12.241 | 55.343 |
| 0.231 | 0.203 | 40.170 | 40.373 | -13.313 | 53.686 |
| *0.376 | 0.205 | 40.740 | 40.945 | -8.598 | 49.543 |
| 0.408 | 0.205 | 29.450 | 29.655 | -18.974 | 48.629 |
| 4.095 | 0.254 | 19.660 | 19.914 | -26.086 | 46.000 |
| 4.677 | 0.262 | 24.950 | 25.212 | -20.788 | 46.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Channel 39

| Frequency MHz | Correct Factor | Reading Level dB | Measurement Level dBuV | Margin dB | Limit dBuV |
|-------------------|-------------------|------------------------|------------------------------|--------------|---------------|
| LINE 2 | | | | | |
| Quasi-Peak | | | | | |
| 0.349 | 0.204 | 43.150 | 43.354 | -16.960 | 60.314 |
| *0.379 | 0.205 | 49.130 | 49.335 | -10.123 | 59.457 |
| 0.466 | 0.206 | 40.950 | 41.156 | -15.815 | 56.971 |
| 0.755 | 0.210 | 38.400 | 38.610 | -17.390 | 56.000 |
| 4.646 | 0.262 | 42.020 | 42.282 | -13.718 | 56.000 |
| 4.854 | 0.264 | 41.800 | 42.064 | -13.936 | 56.000 |
| Average | | | | | |
| 0.349 | 0.204 | 39.400 | 39.604 | -10.710 | 50.314 |
| *0.379 | 0.205 | 46.180 | 46.385 | -3.073 | 49.457 |
| 0.466 | 0.206 | 38.000 | 38.206 | -8.765 | 46.971 |
| 0.755 | 0.210 | 28.040 | 28.250 | -17.750 | 46.000 |
| 4.646 | 0.262 | 30.480 | 30.742 | -15.258 | 46.000 |
| 4.854 | 0.264 | 32.460 | 32.724 | -13.276 | 46.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

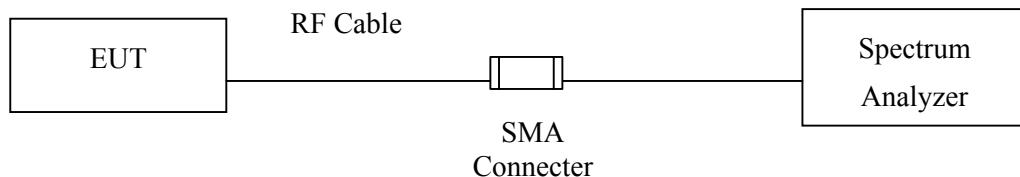
3.1. Test Equipment

The following test equipments are used during the radiated emission tests:

| Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------------|--------------|-----------------------|-----------|
| X Test Receiver | R & S | ESI 26 / 838786 / 004 | May, 2005 |

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

3.2. Test Setup



3.3. Limit

The maximum peak power shall be less 1Watt.

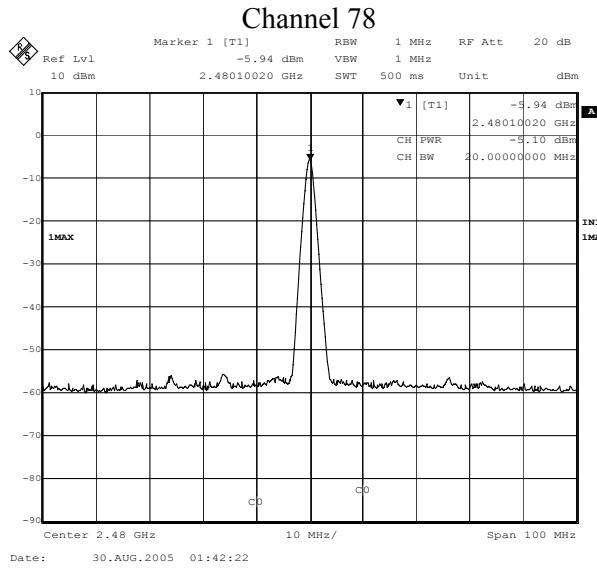
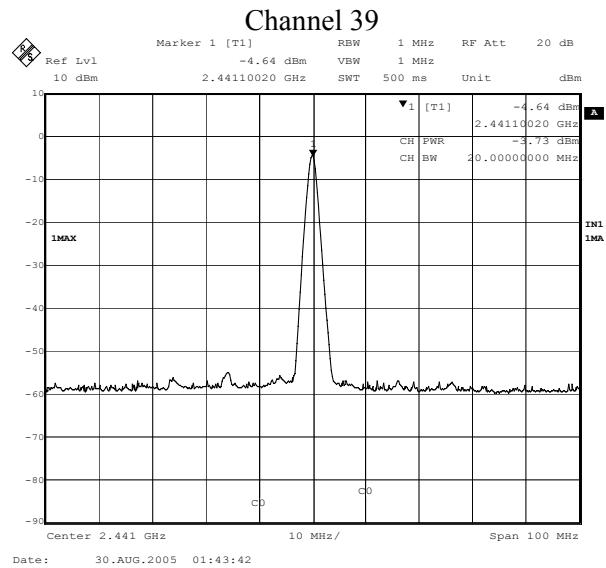
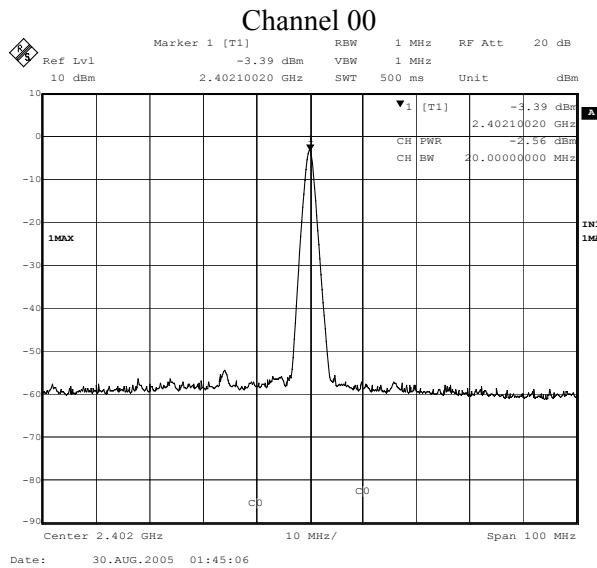
3.4. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

3.5. Test Result of Peak Power Output

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Peak Power Output
 Test Site : No.3 OATS
 Test Mode : Normal Operation

| Channel No. | Frequency (MHz) | Measurement | Required Limit | Result |
|-------------|-----------------|-------------|----------------|--------|
| Channel 00 | 2402.00 | -3.39dBm | 1 Watt= 30 dBm | Pass |
| Channel 39 | 2441.00 | -4.64dBm | 1 Watt= 30 dBm | Pass |
| Channel 78 | 2480.00 | -5.94dBm | 1 Watt= 30 dBm | Pass |



Note:

1. Receiver setting (Peak Detector): RBW: 1MHz; VBW: 1MHz; Span: 100MHz.

4. Radiated Emission

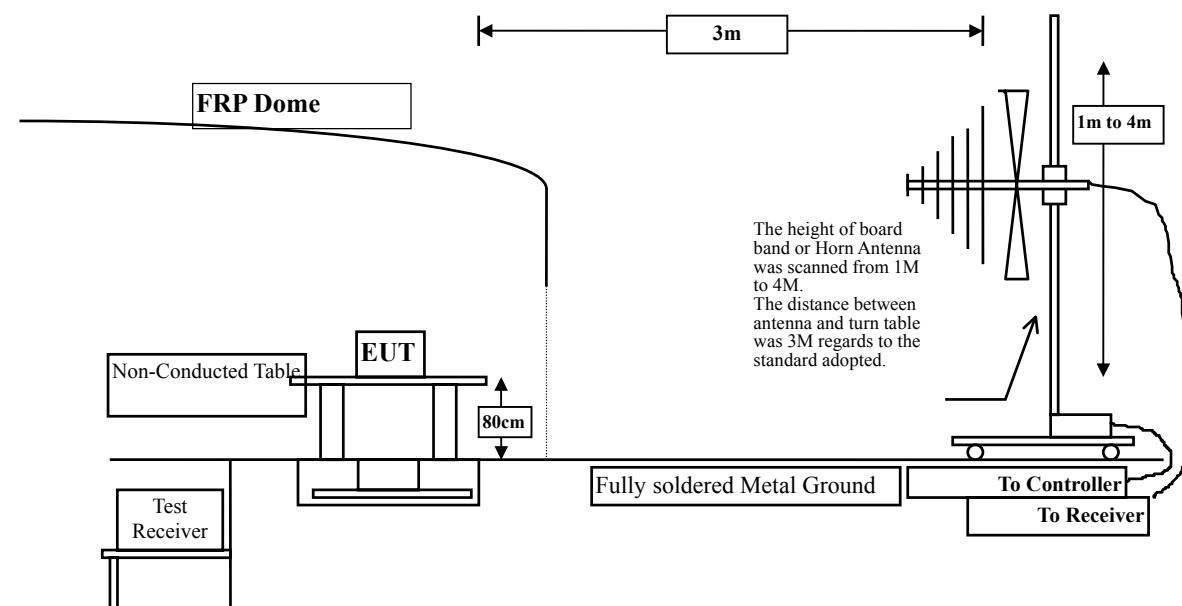
4.1. Test Equipment

The following test equipment are used during the radiated emission test:

| Test Site | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|------------|-------------------|--------------|------------------------|------------|
| □ Site # 1 | Test Receiver | R & S | ESVS 10 / 834468/003 | May, 2005 |
| | Spectrum Analyzer | Advantest | R3162 / 00803480 | May, 2005 |
| | Pre-Amplifier | Advantest | BB525C/ 3307A01812 | May, 2005 |
| | Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | Sep., 2004 |
| □ Site # 2 | Test Receiver | R & S | ESCS 30 / 836858 / 022 | May, 2005 |
| | Spectrum Analyzer | Advantest | R3162 / 100803466 | May, 2005 |
| | Pre-Amplifier | Advantest | BB525C/3307A01814 | May, 2005 |
| | Bilog Antenna | SCHAFFNER | CBL6112B / 2705 | May, 2005 |
| | Horn Antenna | ETS | 3115 / 0005-6160 | Sep., 2004 |
| | Pre-Amplifier | QTK | QTK-AMP-01 / 0001 | May, 2005 |
| ☒ Site # 3 | Test Receiver | R & S | ESCS 30 / 100122 | Feb., 2005 |
| | Spectrum Analyzer | Advantest | R3162 / 100803480 | May, 2005 |
| | Pre-Amplifier | QTK | QTK-AMP-03 / 0003 | May, 2005 |
| | Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | May, 2005 |
| | Horn Antenna | ETS | 3115 / 0005-6160 | July, 2005 |
| | Pre-Amplifier | QTK | QTK-AMP-01 / 0001 | July, 2005 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

4.2. Test Setup



4.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | |
|---|----------|-----------|
| Frequency MHz | uV/m @3m | dBuV/m@3m |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

Remarks:

1. RF Voltage (dBuV) = $20 \log_{10}$ RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics is checked.

4.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB
under 1G is defined as ± 3.8 dB

4.6. Test Result of Radiated Emission

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Channel 00

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|-----------|----------------|---------------|-------------------|--------|--------|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |

Horizontal

Peak Detector:

| | | | | | |
|----------|-------|--------|--------|---------|--------|
| 4804.000 | 2.655 | 43.458 | 46.113 | -27.887 | 74.000 |
| 7206.000 | 3.749 | 36.447 | 40.196 | -33.804 | 74.000 |
| 9608.000 | 4.218 | 37.273 | 41.491 | -32.509 | 74.000 |

Average Detector:

--

Vertical

Peak Detector:

| | | | | | |
|----------|--------|--------|--------|---------|--------|
| 4804.000 | -8.965 | 41.894 | 32.929 | -41.071 | 74.000 |
| 7206.000 | -7.871 | 37.665 | 29.794 | -44.206 | 74.000 |
| 9608.000 | -7.402 | 36.675 | 29.273 | -44.727 | 74.000 |

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz .
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz .
4. Emission Level = Reading Level + Probe Factor + Cable Loss – PreAMP.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Channel 39

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|-----------|----------------|---------------|-------------------|--------|--------|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |

Horizontal

Peak Detector:

| | | | | | |
|----------|-------|--------|--------|---------|--------|
| 4881.950 | 2.758 | 41.902 | 44.660 | -29.340 | 74.000 |
| 7323.000 | 3.869 | 37.423 | 41.292 | -32.708 | 74.000 |
| 9764.000 | 4.064 | 36.781 | 40.845 | -33.155 | 74.000 |

Average Detector:

--

Vertical

Peak Detector:

| | | | | | |
|----------|--------|--------|--------|---------|--------|
| 4882.050 | -8.862 | 42.136 | 33.274 | -40.726 | 74.000 |
| 7323.000 | -7.751 | 36.614 | 28.863 | -45.137 | 74.000 |
| 9764.000 | -7.556 | 36.226 | 28.670 | -45.330 | 74.000 |

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz .
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz .
4. Emission Level = Reading Level + Probe Factor + Cable Loss – PreAMP.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Channel 78

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|-----------|----------------|---------------|-------------------|--------|--------|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |

Horizontal**Peak Detector:**

| | | | | | |
|----------|-------|--------|--------|---------|--------|
| 4959.850 | 2.872 | 41.776 | 44.649 | -29.351 | 74.000 |
| 7440.000 | 3.993 | 37.076 | 41.069 | -32.931 | 74.000 |
| 9920.000 | 4.014 | 36.313 | 40.327 | -33.673 | 74.000 |

Average Detector:

--

Vertical**Peak Detector:**

| | | | | | |
|----------|--------|--------|--------|---------|--------|
| 4959.950 | -8.746 | 42.062 | 33.315 | -40.685 | 74.000 |
| 7440.000 | -7.627 | 37.804 | 30.177 | -43.823 | 74.000 |
| 9920.000 | -7.606 | 37.086 | 29.480 | -44.520 | 74.000 |

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz .
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz .
4. Emission Level = Reading Level + Probe Factor + Cable Loss – PreAMP.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Channel 00

| Freq. | Cable | Probe | PreAMP | Reading | Emission | Margin | Limit |
|--------------------|-------|--------|--------|---------|----------|--------|--------|
| | Loss | Factor | | Level | Level | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dB | dBuV/m |
| <hr/> | | | | | | | |
| Horizontal: | | | | | | | |
| 243.400 | 1.97 | 10.82 | 0.00 | 9.31 | 22.10 | 23.90 | 46.00 |
| 260.800 | 2.06 | 13.05 | 0.00 | 10.19 | 25.30 | 20.70 | 46.00 |
| 292.800 | 2.22 | 12.31 | 0.00 | 8.16 | 22.70 | 23.30 | 46.00 |
| 312.200 | 2.32 | 12.10 | 0.00 | 12.27 | 26.70 | 19.30 | 46.00 |
| 325.800 | 2.39 | 12.26 | 0.00 | 11.04 | 25.70 | 20.30 | 46.00 |
| * 572.230 | 3.66 | 17.18 | 0.00 | 9.36 | 30.20 | 15.80 | 46.00 |

Vertical:

| | | | | | | | |
|------------------|------|-------|------|-------|-------|-------|-------|
| 243.400 | 1.97 | 11.08 | 0.00 | 13.05 | 26.10 | 19.90 | 46.00 |
| 281.230 | 2.16 | 12.21 | 0.00 | 7.72 | 22.10 | 23.90 | 46.00 |
| 292.800 | 2.22 | 12.22 | 0.00 | 8.28 | 22.72 | 23.28 | 46.00 |
| 325.800 | 2.39 | 12.51 | 0.00 | 16.79 | 31.70 | 14.30 | 46.00 |
| 572.200 | 3.66 | 19.23 | 0.00 | 8.39 | 31.28 | 14.72 | 46.00 |
| * 624.600 | 3.93 | 18.89 | 0.00 | 9.98 | 32.80 | 13.20 | 46.00 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “*” means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss – PreAMP.

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Channel 39

| Freq. MHz | Cable Loss dB | Probe Factor dB/m | PreAMP dB | Reading dBuV | Emission Level dBuV/m | Margin dB | Limit dBuV/m |
|--------------|---------------------|-------------------------|--------------|-----------------|-----------------------------|--------------|-----------------|
|--------------|---------------------|-------------------------|--------------|-----------------|-----------------------------|--------------|-----------------|

Horizontal:

| | | | | | | | |
|-----------|------|-------|------|-------|-------|-------|-------|
| 273.400 | 2.12 | 11.88 | 0.00 | 13.80 | 27.80 | 18.20 | 46.00 |
| 294.800 | 2.23 | 12.45 | 0.00 | 13.11 | 27.80 | 18.20 | 46.00 |
| 299.660 | 2.26 | 12.53 | 0.00 | 12.90 | 27.69 | 18.31 | 46.00 |
| * 312.200 | 2.32 | 12.10 | 0.00 | 19.97 | 34.40 | 11.60 | 46.00 |
| 338.400 | 2.46 | 13.00 | 0.00 | 11.94 | 27.40 | 18.60 | 46.00 |
| 351.070 | 2.52 | 12.95 | 0.00 | 13.23 | 28.70 | 17.30 | 46.00 |

Vertical:

| | | | | | | | |
|-----------|------|-------|------|-------|-------|-------|-------|
| 255.040 | 2.03 | 12.31 | 0.00 | 10.30 | 24.64 | 21.36 | 46.00 |
| 273.470 | 2.12 | 12.24 | 0.00 | 10.44 | 24.80 | 21.20 | 46.00 |
| 299.660 | 2.26 | 12.14 | 0.00 | 13.29 | 27.69 | 18.31 | 46.00 |
| * 351.000 | 2.52 | 13.30 | 0.00 | 12.89 | 28.71 | 17.29 | 46.00 |
| 458.700 | 3.08 | 16.42 | 0.00 | 5.86 | 25.36 | 20.64 | 46.00 |
| 499.480 | 3.29 | 16.34 | 0.00 | 7.06 | 26.69 | 19.31 | 46.00 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “*” means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss – PreAMP.

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Channel 78

| Freq. | Cable | Probe | PreAMP | Reading | Emission | Margin | Limit |
|--------------------|-------|--------|--------|---------|----------|--------|--------|
| | Loss | Factor | | Level | Level | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dB | dBuV/m |
| <hr/> | | | | | | | |
| Horizontal: | | | | | | | |
| 281.230 | 2.16 | 12.02 | 0.00 | 8.64 | 22.82 | 23.18 | 46.00 |
| 299.660 | 2.26 | 12.53 | 0.00 | 8.41 | 23.20 | 22.80 | 46.00 |
| 307.730 | 2.30 | 12.13 | 0.00 | 10.98 | 25.40 | 20.60 | 46.00 |
| 312.270 | 2.32 | 12.10 | 0.00 | 12.29 | 26.72 | 19.28 | 46.00 |
| 351.070 | 2.52 | 12.95 | 0.00 | 7.89 | 23.36 | 22.64 | 46.00 |
| * 624.610 | 3.93 | 18.59 | 0.00 | 7.62 | 30.14 | 15.86 | 46.00 |

Vertical:

| | | | | | | | |
|------------------|------|-------|------|-------|-------|-------|-------|
| 281.230 | 2.16 | 12.21 | 0.00 | 8.44 | 22.82 | 23.18 | 46.00 |
| 299.660 | 2.26 | 12.14 | 0.00 | 9.80 | 24.20 | 21.80 | 46.00 |
| 325.800 | 2.39 | 12.51 | 0.00 | 10.79 | 25.70 | 20.30 | 46.00 |
| 351.070 | 2.52 | 13.30 | 0.00 | 9.52 | 25.34 | 20.66 | 46.00 |
| 572.230 | 3.66 | 19.23 | 0.00 | 7.31 | 30.20 | 15.80 | 46.00 |
| * 624.600 | 3.93 | 18.89 | 0.00 | 8.36 | 31.18 | 14.82 | 46.00 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “*” means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable Loss – PreAMP.

5. Band Edge

5.1. Test Equipment

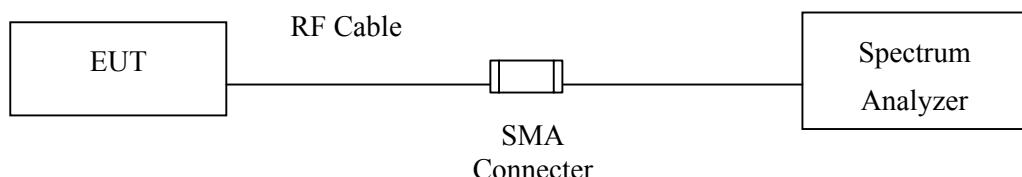
The following test equipments are used during the band edge tests:

| Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---------------------|--------------|----------------------|------------|
| Spectrum Analyzer | Advantest | R3272 / 72421194 | May, 2005 |
| Test Receiver | R & S | ESCS 30 / 825442/14 | May, 2005 |
| X Spectrum Analyzer | Advantest | R3162 / 101102468 | Oct., 2004 |
| X Pre-Amplifier | QTK | QTK-AMP-01 / 0001 | July, 2005 |
| Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | May, 2005 |
| X Horn Antenna | ETS | 3115 / 0005-6160 | July, 2005 |

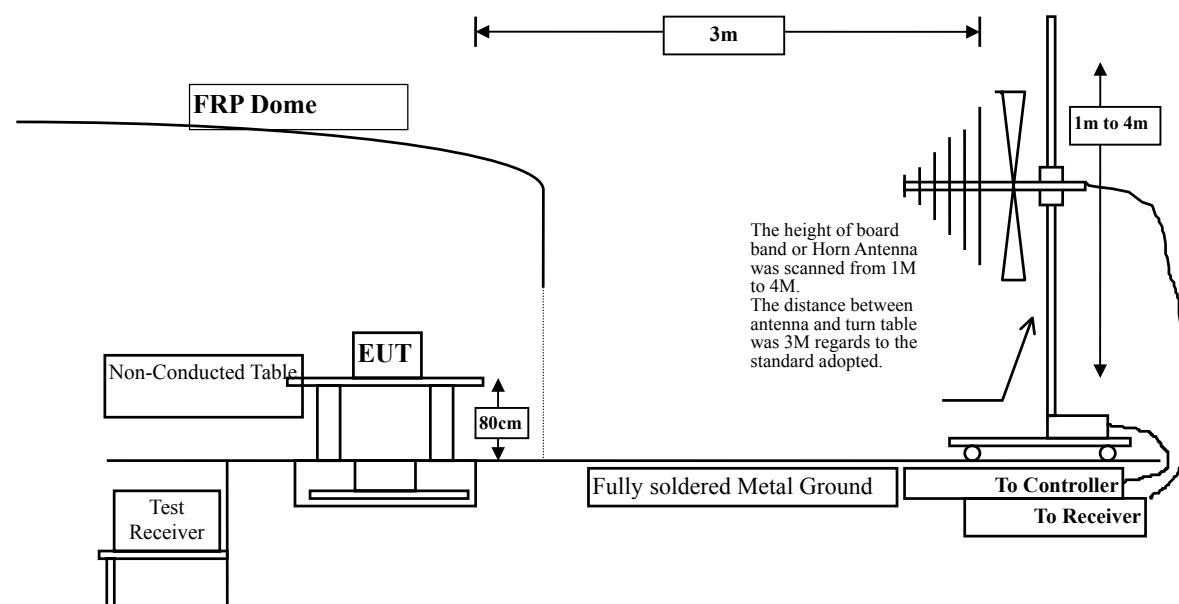
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

5.5. Uncertainty

The measurement uncertainty above 1G is defined as \pm 3.9 dB
under 1G is defined as \pm 3.8 dB

5.6. Test Result of Band Edge

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Channel 00

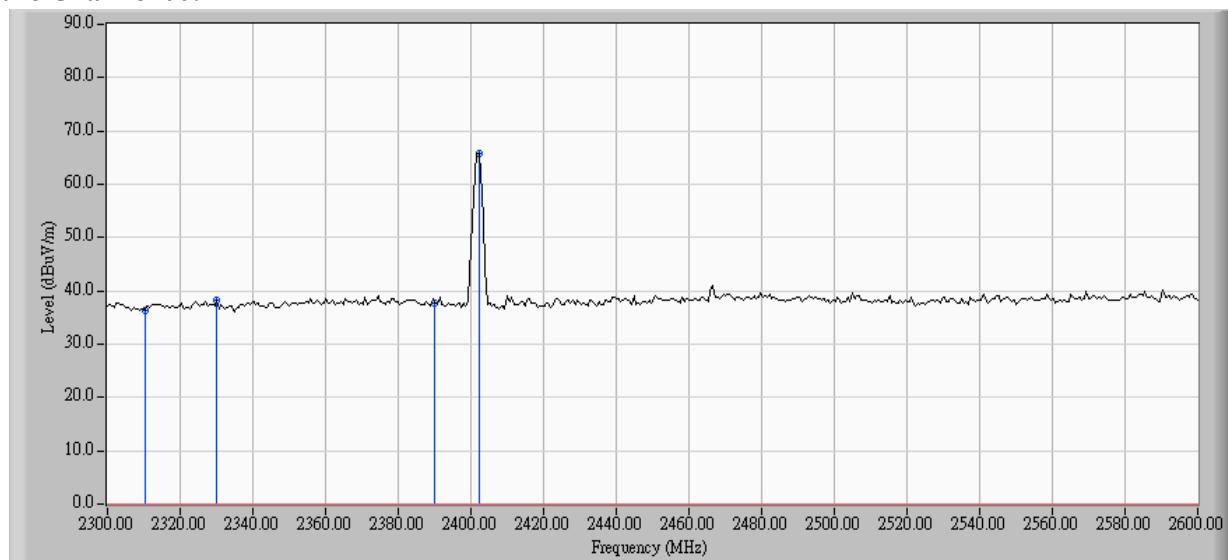
RF Conducted Measurement:

| RBW: 100kHz, VBW: 1MHz | | | |
|------------------------|-----------------|----------------------|--------|
| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
| 00 | <2400 | >20 | Pass |

Radiated Measurement: (Horizontal)

| RBW: 1MHz, VBW: 1MHz | | | | | | |
|----------------------|-----------------|----------------------|-------------------------|---------------------|------------------------|--------|
| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
| 00(Peak Detector) | 2330.060 | 40.931 | 38.270 | 74.00 | 54.00 | Pass |
| 00(Avg Detector) | -- | -- | -- | 74.00 | 54.00 | Pass |

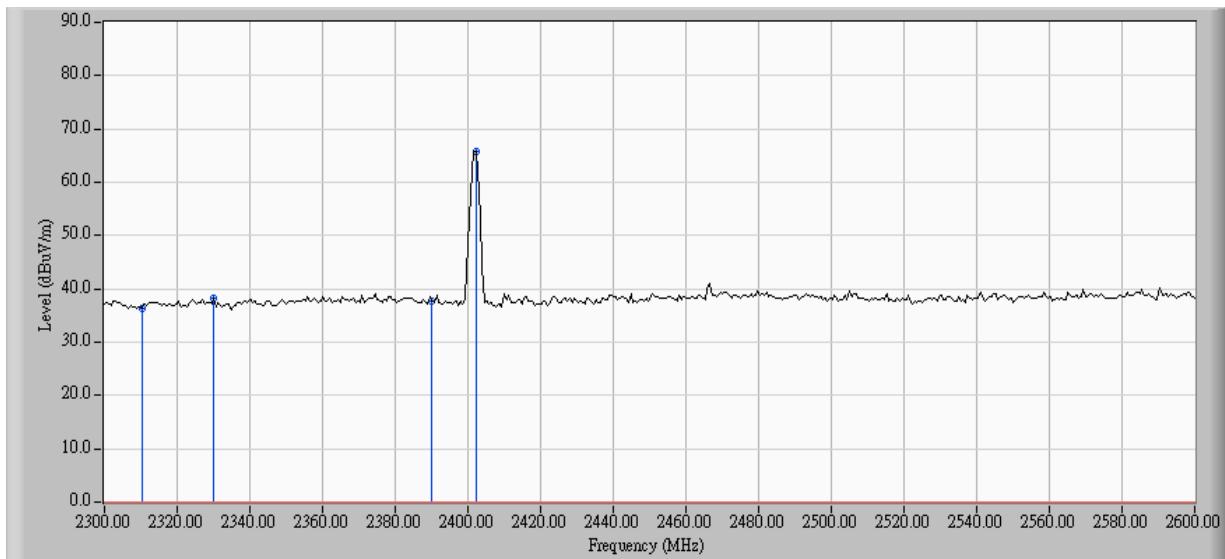
Figure Channel 00:



Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Channel 00

Radiated Measurement: (Vertical)

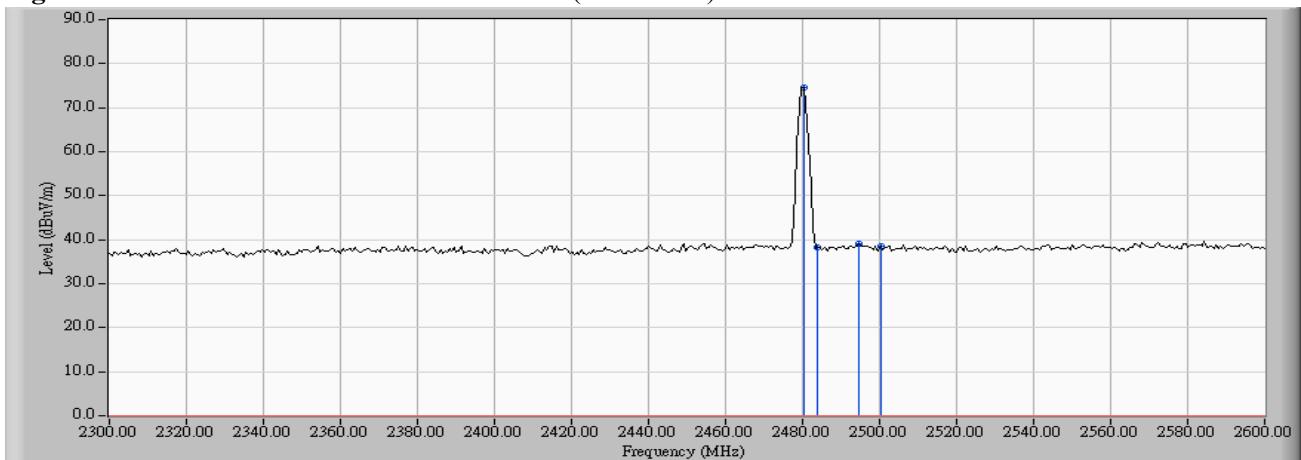
| RBW: 1MHz, VBW: 1MHz | | | | | | |
|----------------------|-----------------|----------------------|-------------------------|---------------------|------------------------|--------|
| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
| 00(Peak Detector) | 2337.880 | 40.804 | 38.180 | 74.00 | 54.00 | Pass |
| 00(Avg Detector) | -- | -- | -- | 74.00 | 54.00 | Pass |

Figure Channel 00:

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Channel 78

RF Radiated Measurement: (Horizontal)

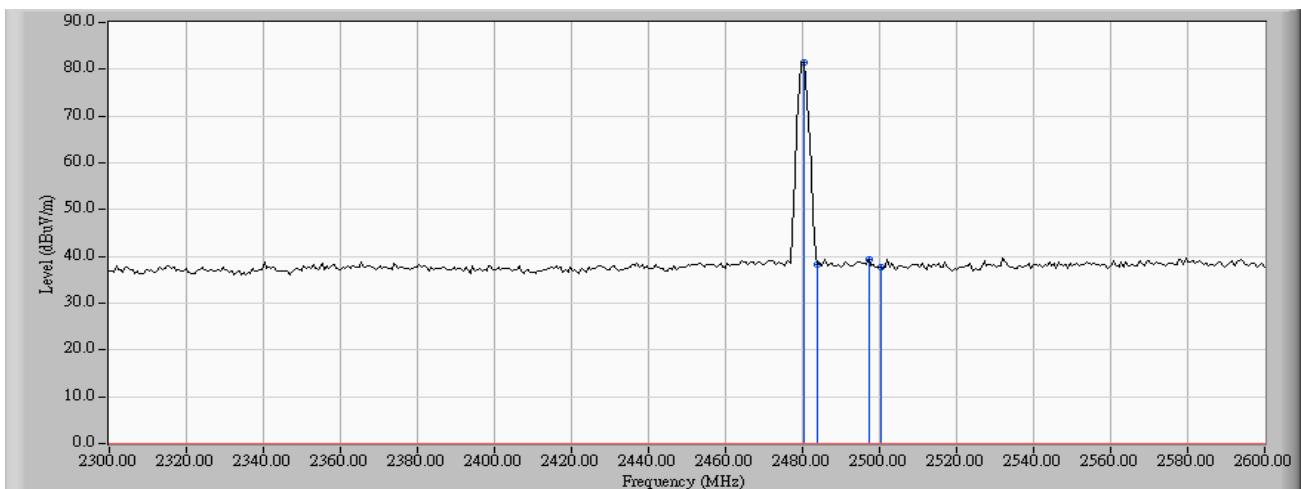
| RBW: 1MHz, VBW: 1MHz | | | | | | |
|----------------------|-----------------|----------------------|-------------------------|---------------------|------------------------|--------|
| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
| 78(Peak Detector) | 2494.790 | 40.992 | 39.090 | 74.00 | 54.00 | Pass |
| 78(Avg Detector) | -- | -- | -- | 74.00 | 54.00 | Pass |

Figure Channel 78: (Horizontal)

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Channel 78

RF Radiated Measurement: (Vertical)

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
|-------------------|-----------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 78(Peak Detector) | 2497.190 | 41.174 | 62.015 | 74.00 | 54.00 | Pass |
| 78(Avg Detector) | -- | -- | -- | 74.00 | 54.00 | Pass |

Figure Channel 78: (Vertical)

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

6. Channel Number

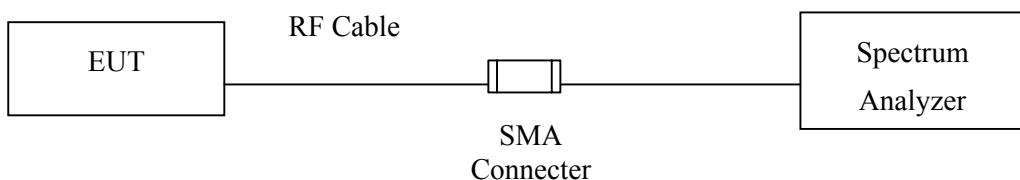
6.1. Test Equipment

The following test equipments are used during the radiated emission tests:

| Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------------|--------------|----------------------|------------|
| X Test Receiver | R & S | ESI26 / 838786/004 | Mar., 2005 |

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark “X” test instruments are used to measure the final test results.

6.2. Test Setup



6.3. Limit

Frequency hopping systems operating in the 2400-2483.5 MHz bands shall use at least 75 hopping frequencies.

6.4. Uncertainty

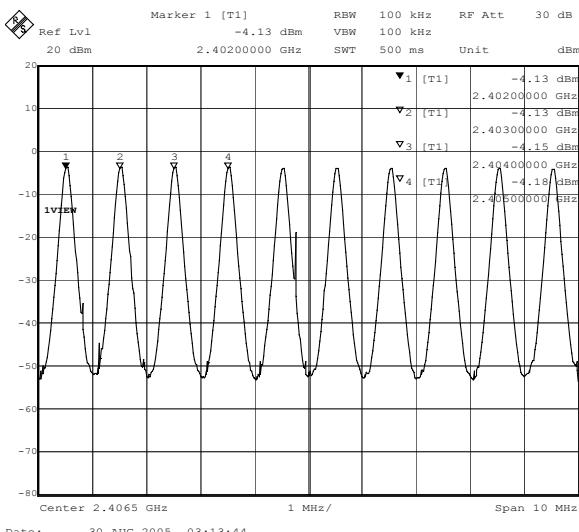
The measurement uncertainty is defined as $\pm 200\text{kHz}$

6.5. Test Result of Channel Number

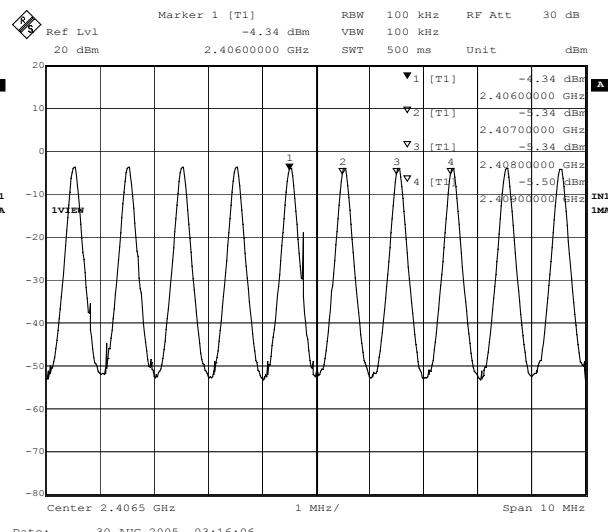
Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Normal Operation

| Frequency Range (MHz) | Measurement (Hopping Channel) | Required Limit (Hopping Channel) | Result |
|-----------------------|-------------------------------|----------------------------------|--------|
| 2402 ~ 2480 | 79 | >75 | Pass |

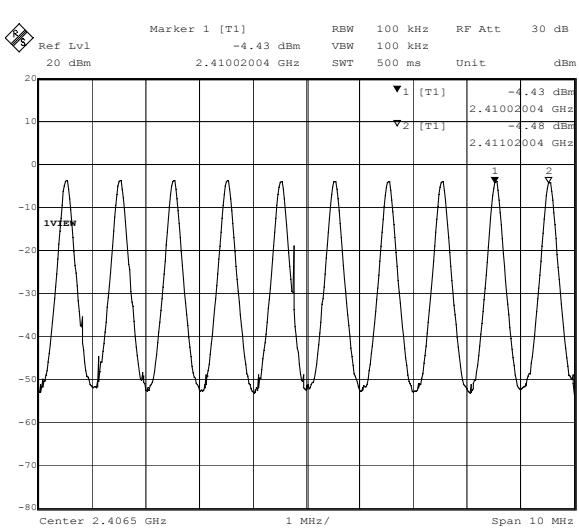
2402-2405MHz



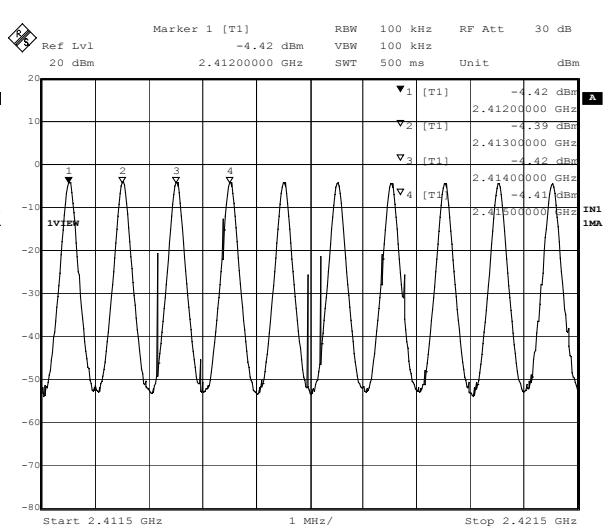
2406-2409MHz



2410-2411MHz

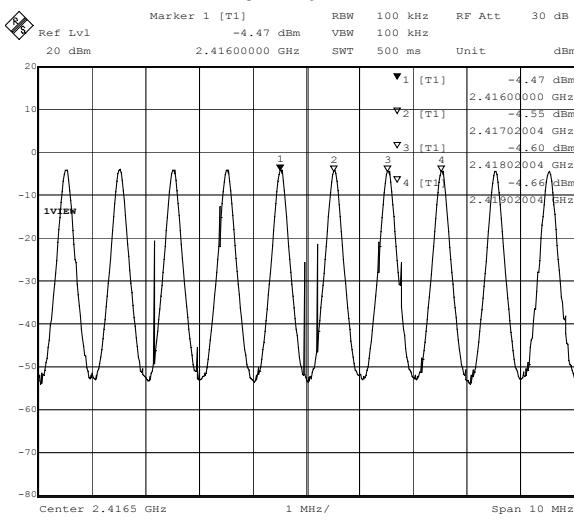


2412-2415MHz

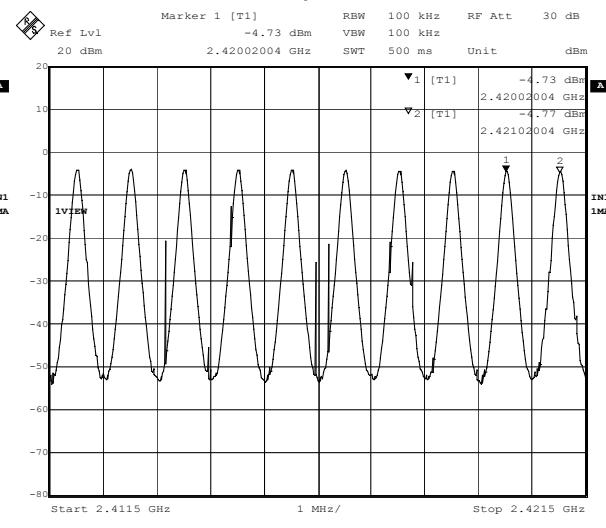


Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Normal Operation

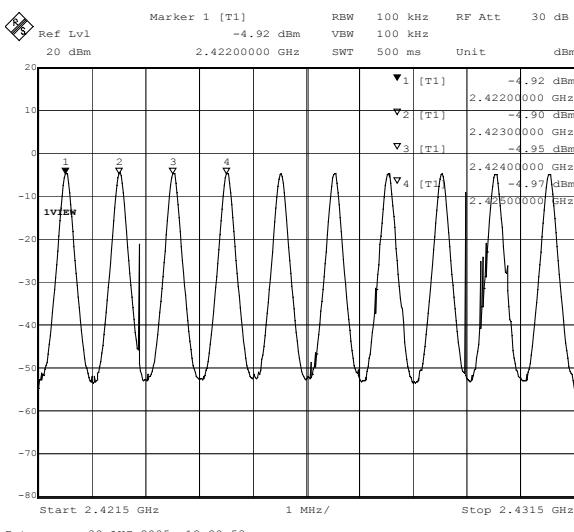
2416-2419MHz



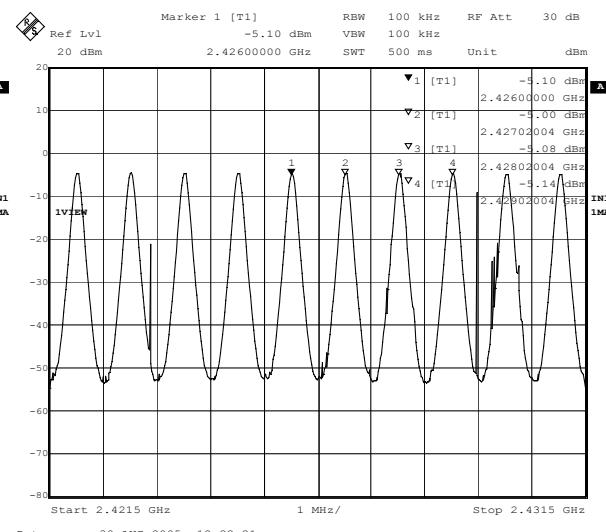
2420-2421MHz



2422-2425MHz

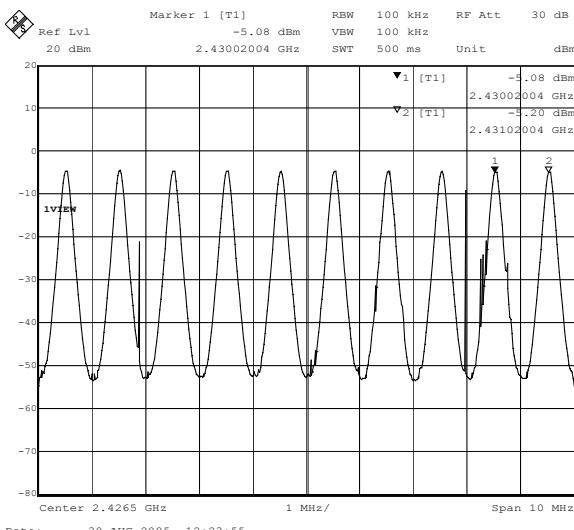


2426-2429MHz

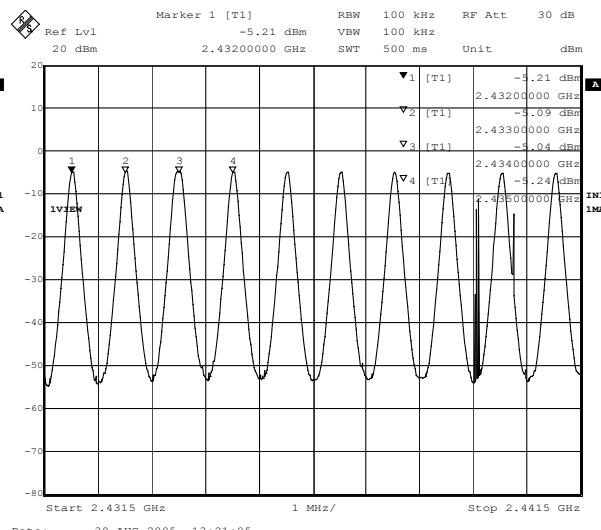


Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Normal Operation

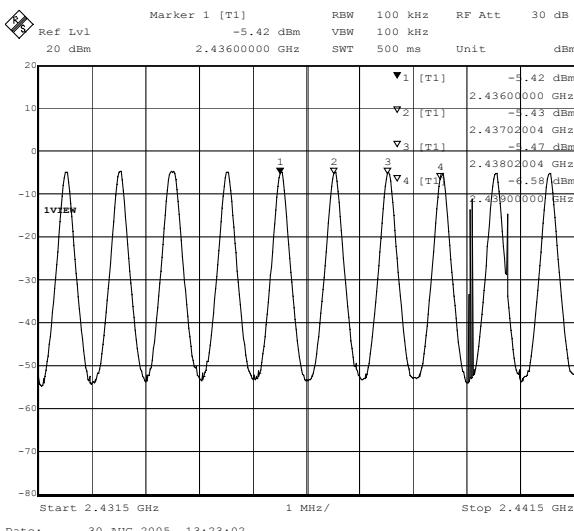
2430-2431MHz



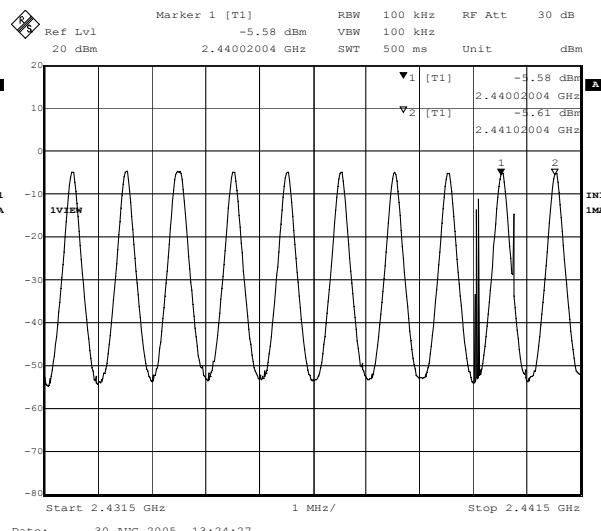
2432-2435MHz



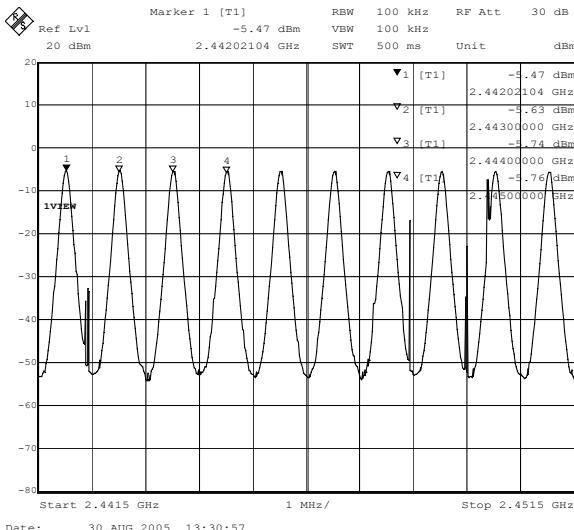
2436-2439MHz



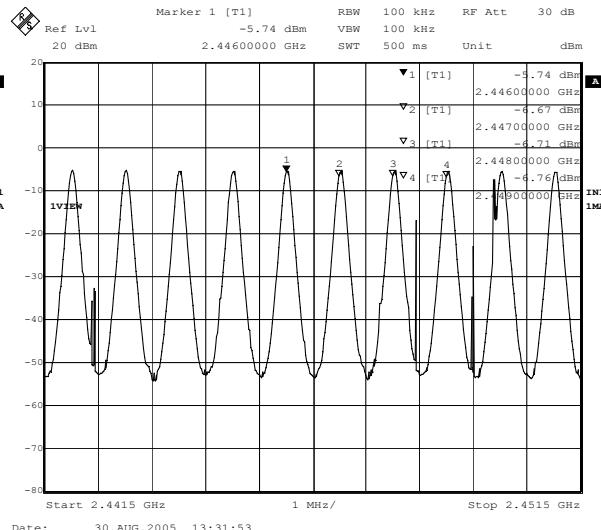
2440-2441MHz



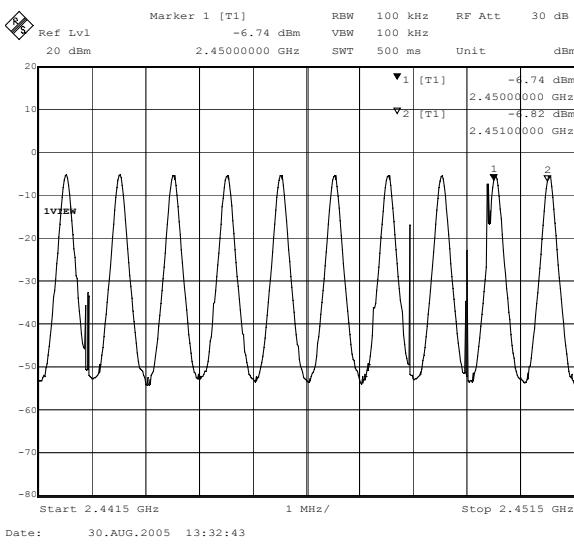
2442-2445MHz



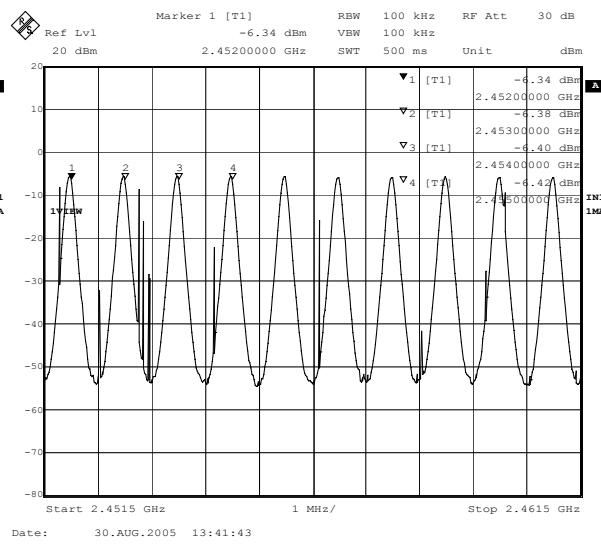
2446-2449MHz



2450-2451MHz

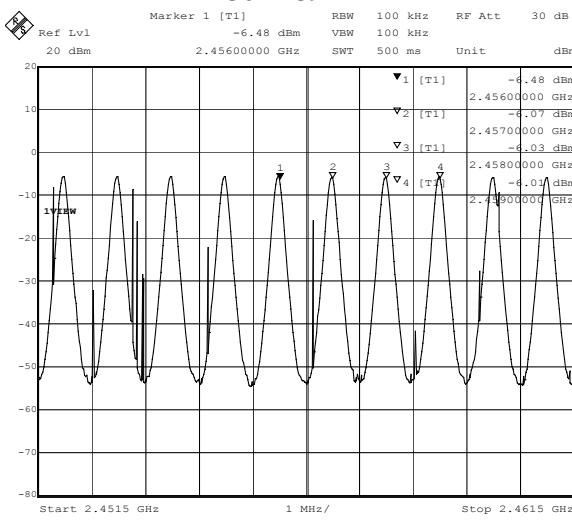


2452-2455MHz

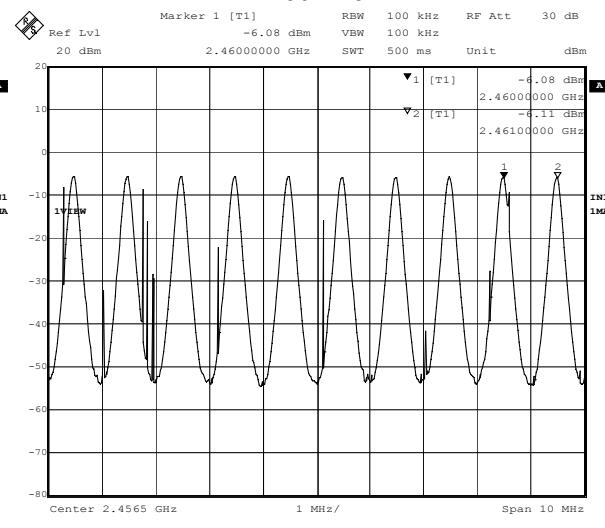


Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Normal Operation

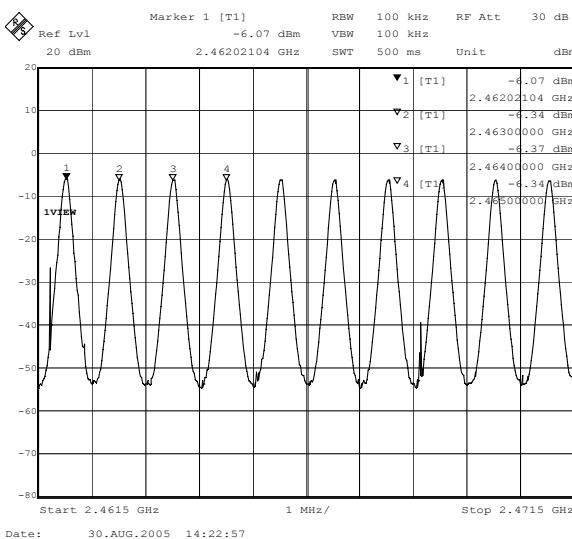
2456-2459MHz



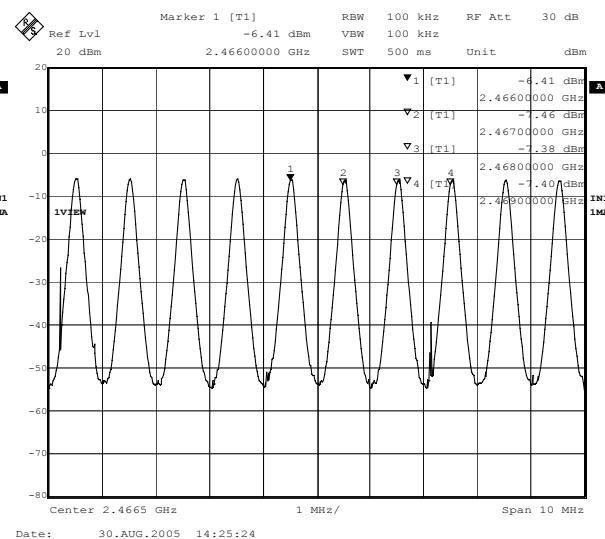
2460-2461MHz



2462-2465MHz

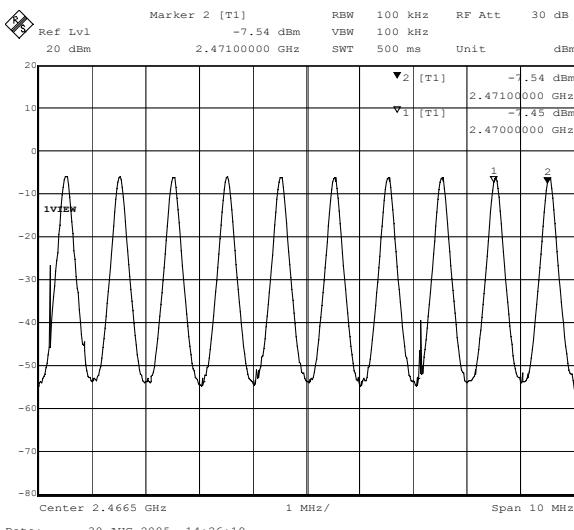


2466-2469MHz

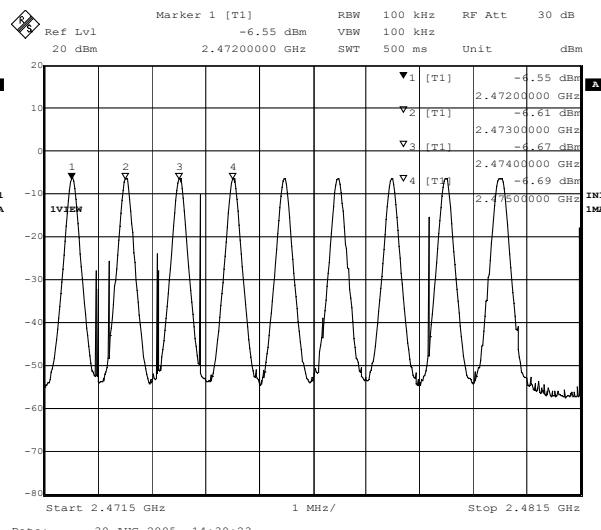


Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Normal Operation

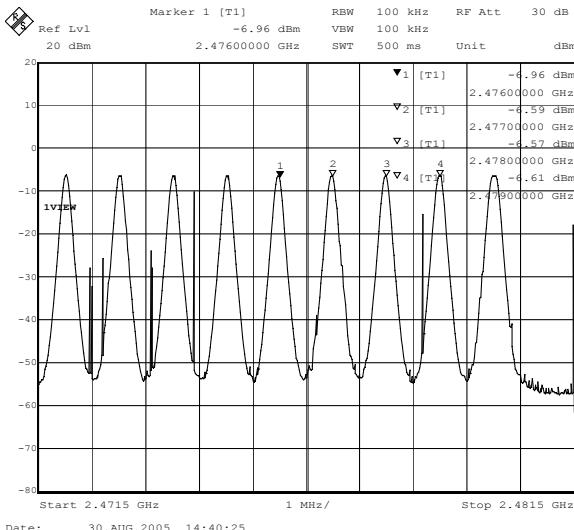
2470-2471MHz



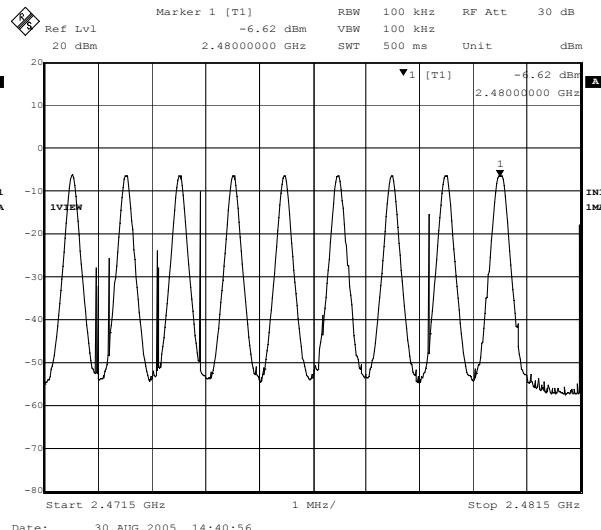
2472-2475MHz



2476-2479MHz



2480MHz



7. Channel Separation

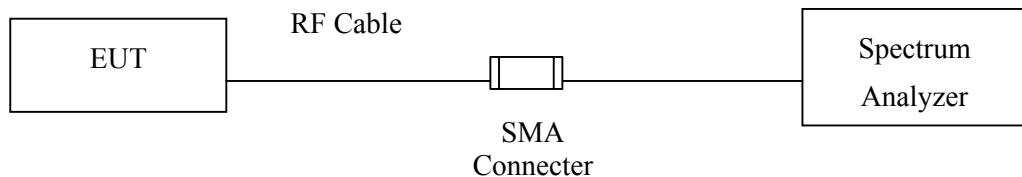
7.1. Test Equipment

The following test equipments are used during the radiated emission tests:

| Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---------------------|--------------|----------------------|------------|
| X Spectrum Analyzer | R & S | ESI26 / 838786/004 | Mar., 2005 |

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

7.2. Test Setup



7.3. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

7.4. Uncertainty

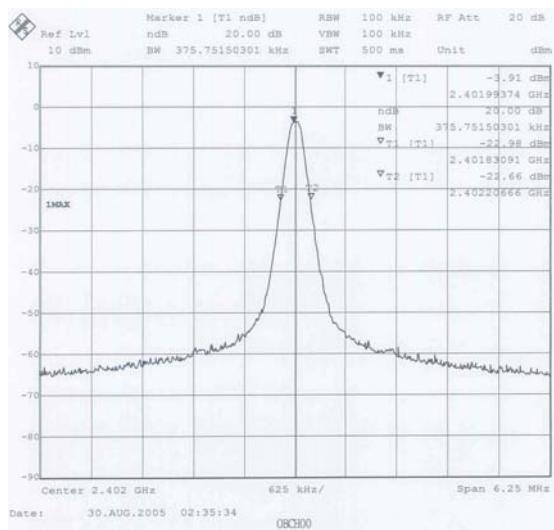
The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.5. Test Result of Channel Separation

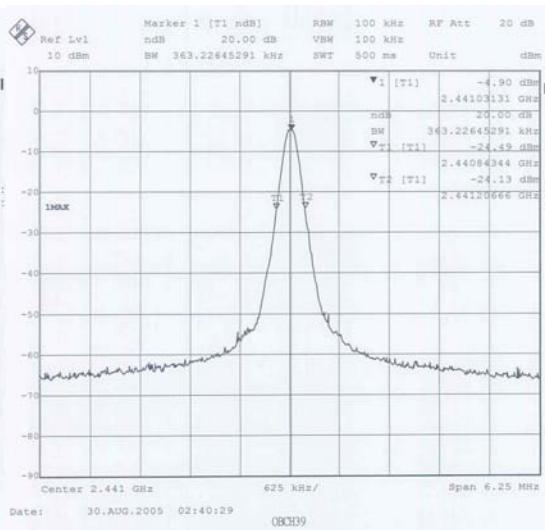
Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Channel Separation
 Test Site : No.3 OATS
 Test Mode : Normal Operation

| Frequency (MHz) | 20dB Bandwidth (kHz) |
|-----------------|----------------------|
| 2402 | 375.751 |
| 2441 | 363.226 |
| 2480 | 400.801 |

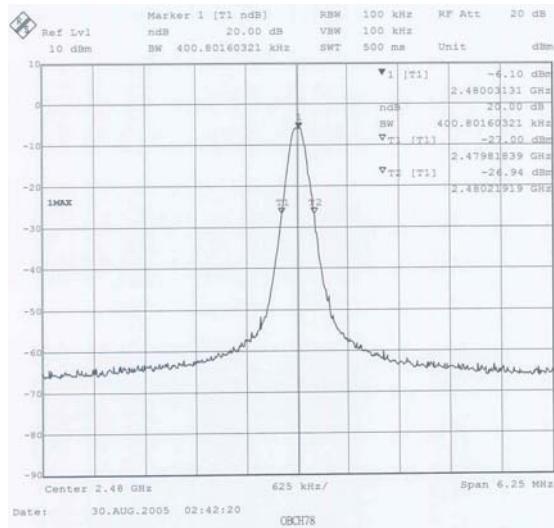
Channel 00 2402MHz



Channel 39 2441MHz



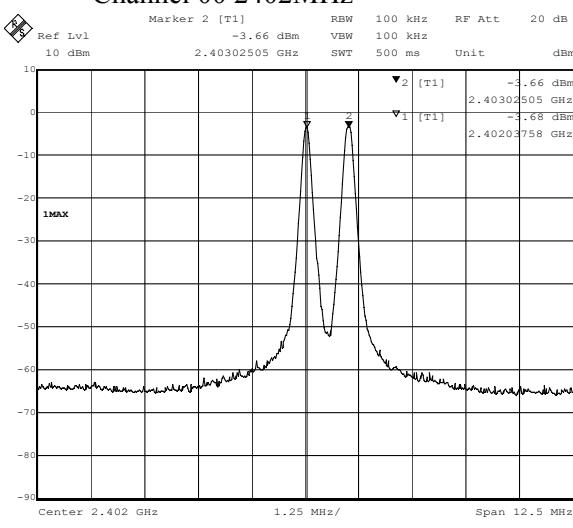
Channel 78 2480 MHz



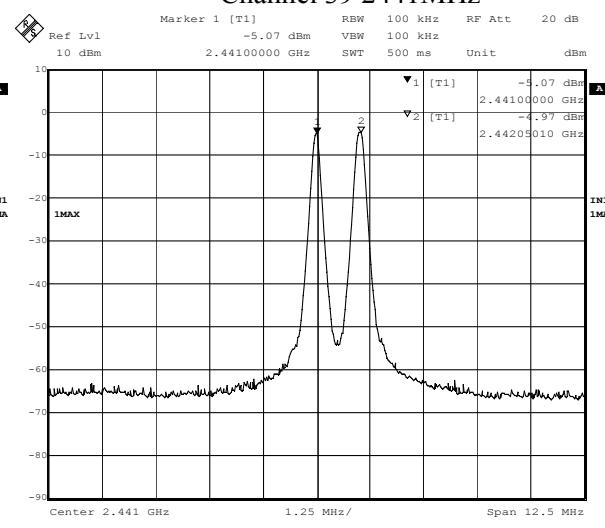
Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Channel Separation
 Test Site : No.3 OATS
 Test Mode : Normal Operation

| Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-----------------|-------------------------|---------------------------|--------|
| 2402 | 987 | >25 or 2/3*20dB bandwidth | Pass |
| 2441 | 1050 | >25 or 2/3*20dB bandwidth | Pass |
| 2480 | 1000 | >25 or 2/3*20dB bandwidth | Pass |

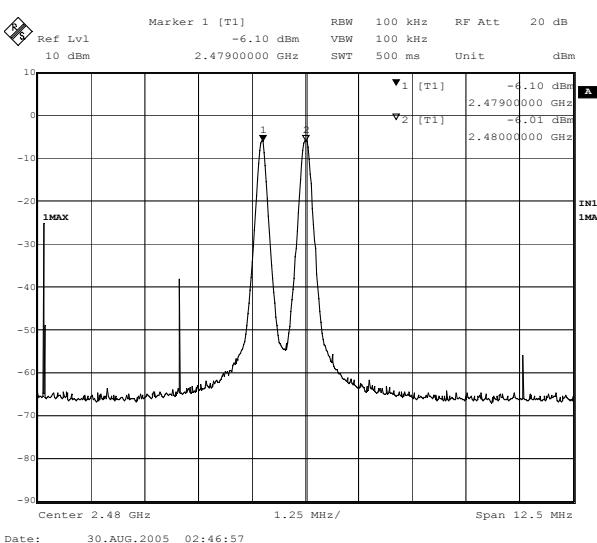
Channel 00 2402MHz



Channel 39 2441MHz



Channel 78 2480 MHz



8. Dwell Time

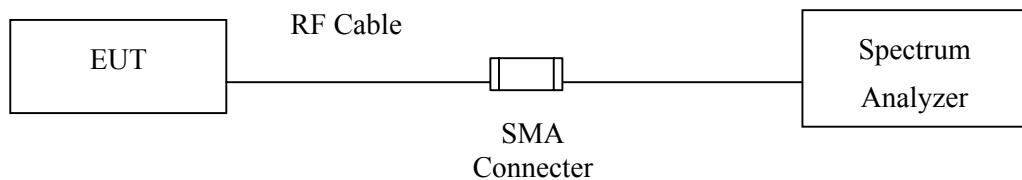
8.1. Test Equipment

The following test equipments are used during the radiated emission tests:

| Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---------------------|--------------|----------------------|------------|
| X Spectrum Analyzer | Advantest | R3162 / 121200166 | Mar., 2005 |

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

8.2. Test Setup



8.3. Limit

The dwell time shall be the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

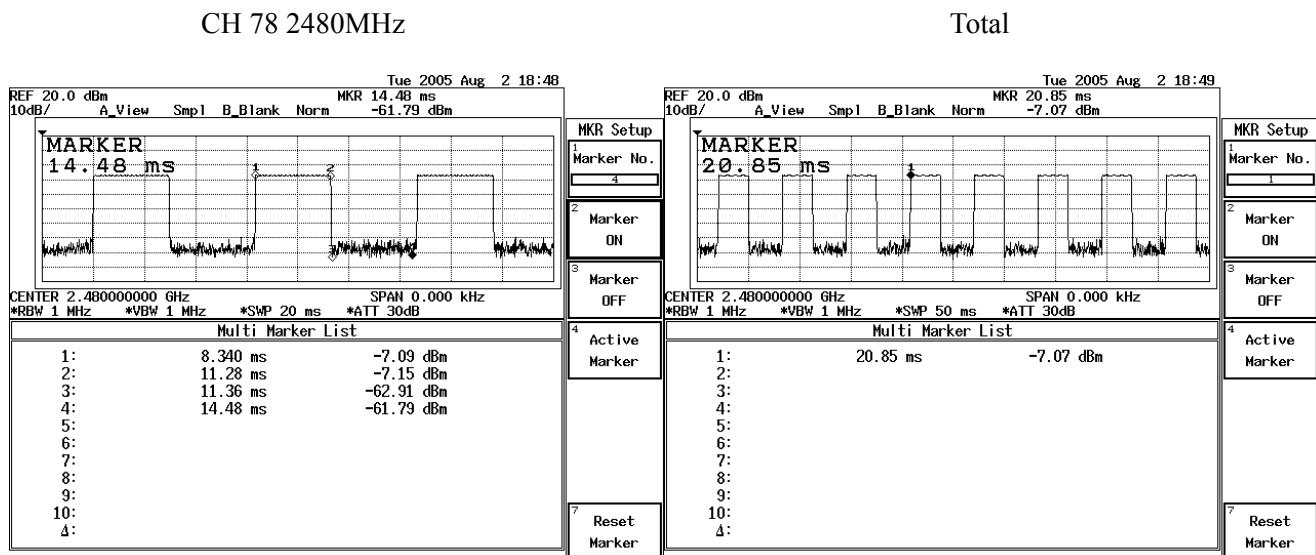
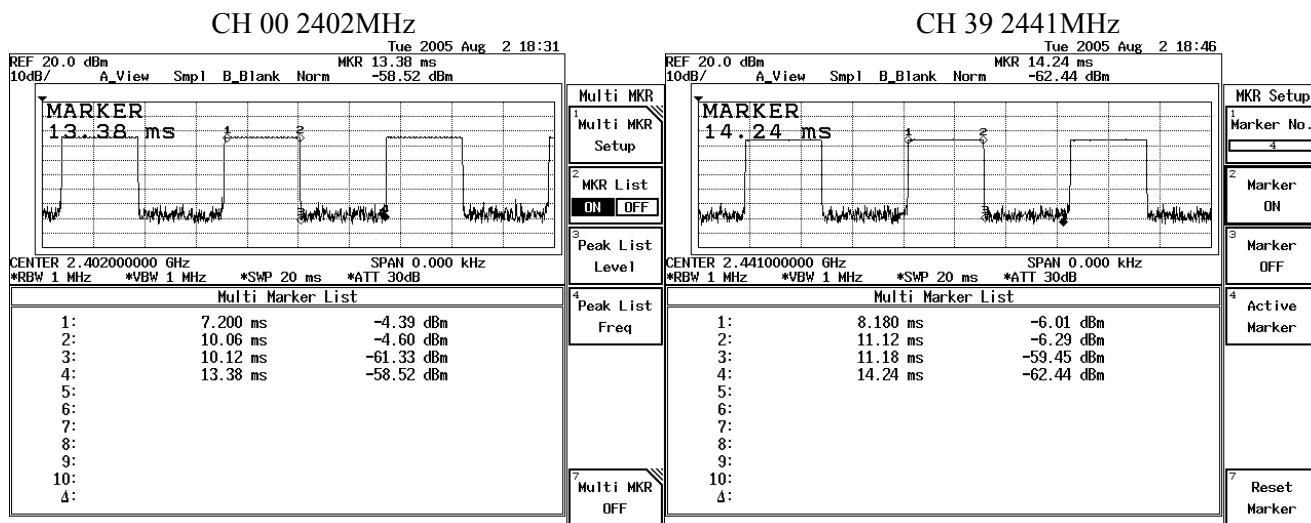
8.4. Uncertainty

The measurement uncertainty is defined as $\pm 25\text{msec}$

8.5. Test Result of Dwell Time

Product : GSM900/DCS1800 / PCS1900 GSM/GPRS Mobile Phone
 Test Item : Dwell Time
 Test Site : No.3 OATS
 Test Mode : Channel 00,39,78

| Channel (MHz) | Measurement Level (sec) | Required Limit (sec) | Result |
|------------------|----------------------------|-------------------------|--------|
| CH 00 2402 | 183.304 (ms) | < 0.4 | Pass |
| CH 39 2441 | 188.431 (ms) | < 0.4 | Pass |
| CH 78 2480 | 188.431(ms) | < 0.4 | Pass |



Note: Dwell time = time slot length * hop rate / number of hopping channels * period

Occupancy Time of Frequency Hopping System

Test Time Period: $0.4*79=31.6\text{sec}$, Hopping Times Within 1sec: $8 / 50\text{msec}=0.16 / \text{sec}$

A) 2402MHz The Maximum Occupancy Time Within 31.6sec: $(2860 \mu \text{s}*160) / (79*31.6)=183.304\text{msec}$ 。

B) 2441MHz The Maximum Occupancy Time Within 31.6sec: $(2940 \mu \text{s}*160) / (79*31.6)=188.431\text{msec}$ 。

C) 2480MHz The Maximum Occupancy Time Within 31.6sec: $(2940 \mu \text{s}*160) / (79*31.6)=188.431\text{msec}$ 。

Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard 。

PS: (1) From Bluetooth Specification , It Hops 1600 Times in 1sec . The Average Occupancy Time of Each 79 Channels is 1600/79 Times , Therefore , We Calculate The Maximum Occupancy Time (worse case)As Below:

A) 2402Mhz The Occupancy Time of Each Pulse is 0.4msec , The Maximum Occupancy Time within 31.6sec is $(0.4\text{msec}*1600) / (79*31.6)=289.056\text{msec}$

B) 2441MHz The Occupancy Time of Each Pulse is 0.4msec , The Maximum Occupancy Time within 31.6sec is $(0.4\text{msec}*1600) / (79*31.6)=289.056\text{msec}$

C) 2480MHz The Occupancy Time of Each Pulse is 0.4msec , The Maximum Occupancy Time within 31.6sec is $(0.4\text{msec}*1600) / (79*31.6)=289.056\text{msec}$

Test Result: The Maximum Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard 。

9. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 1: EUT Test Setup Photographs

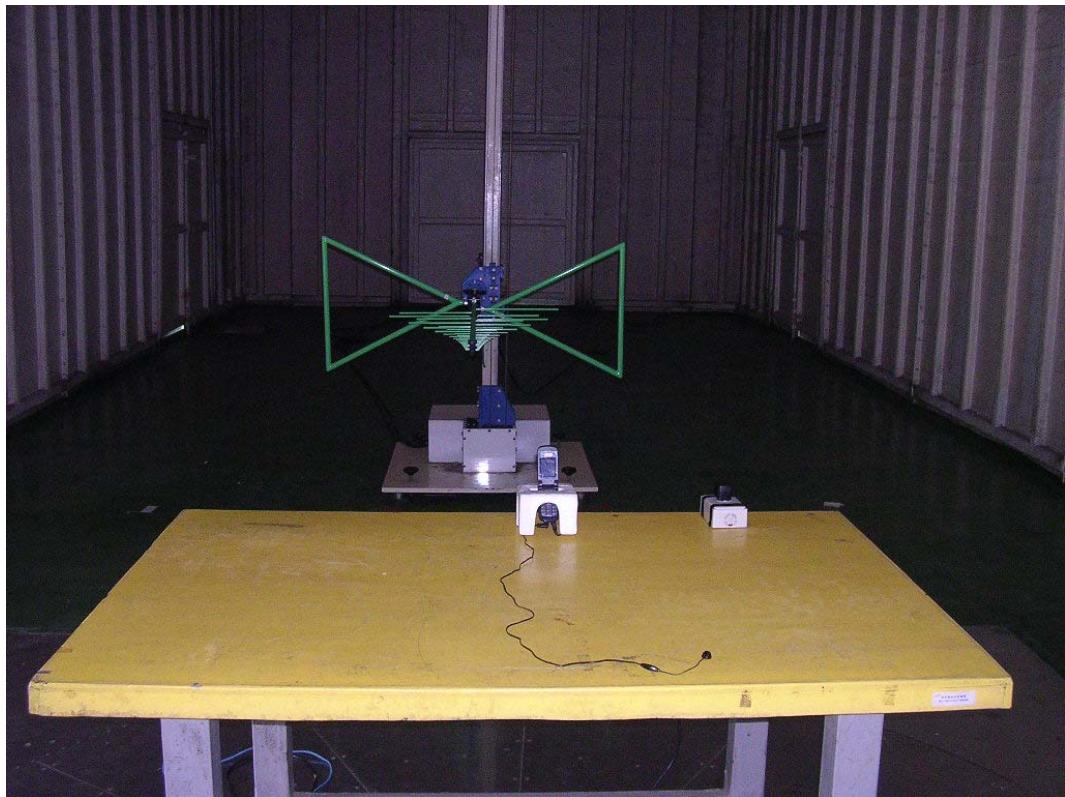
Front View of Conducted Test



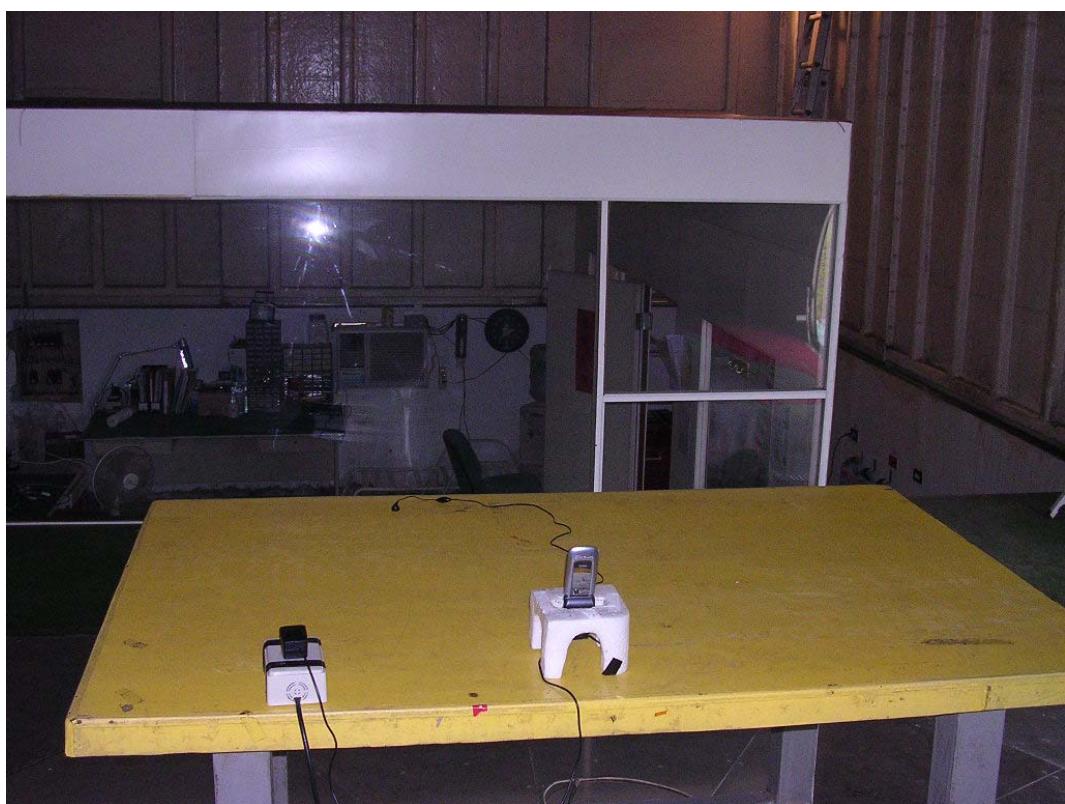
Back View of Conducted Test



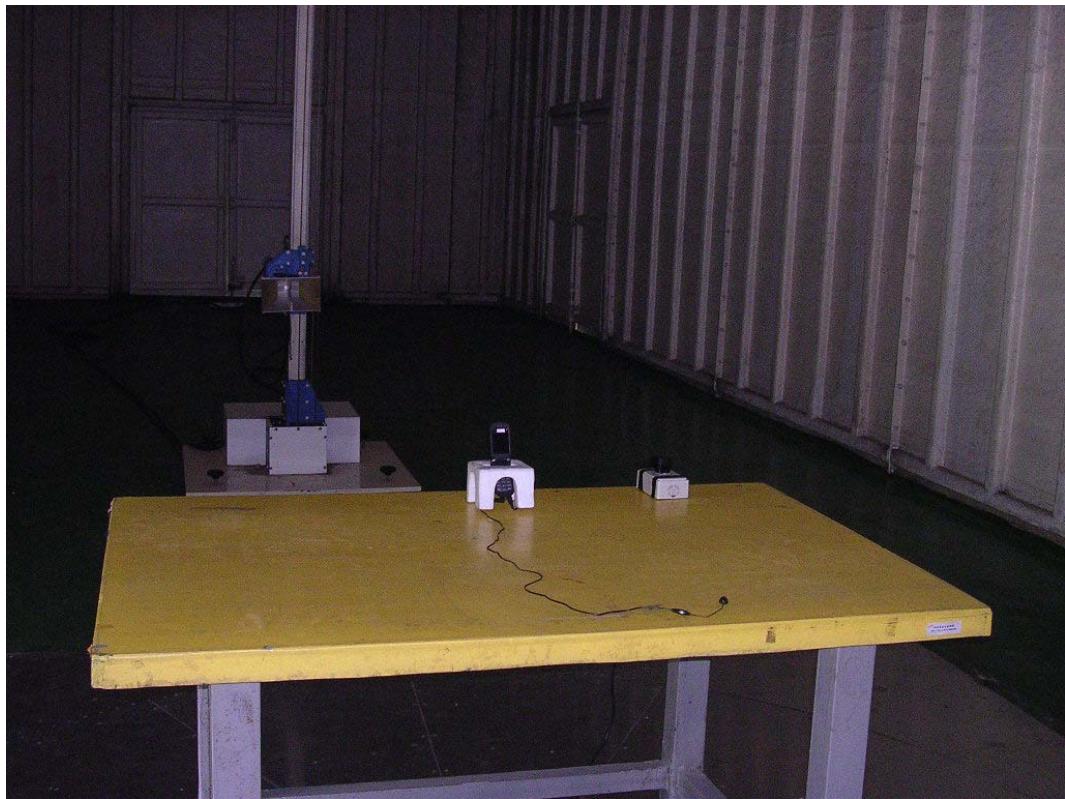
Front View of Radiated Test



Back View of Radiated Test



Front View of Radiated Test (Horn)



Back View of Radiated Test (Horn)



Attachment 2: EUT Detailed Photographs

Attachment 2 : EUT Detailed Photographs

(1) EUT Photo



(2) EUT Photo



(3) EUT Photo



(4) EUT Photo



(5) EUT Photo



(6) EUT Photo



(7) EUT Photo



(8) EUT Photo



(9) EUT Photo



(10) EUT Photo



(11)EUT Photo



(12)EUT Photo



(13)EUT Photo



(14)EUT Photo

