



Test Report

FCC Part15 Subpart C

Product Name : WCDMA Digital Mobile Phone
Model No. : HUAWEI G350-U151
FCC ID : QISG350-U151

Applicant : Huawei Technologies Co., Ltd.

Address : Administration Building, Headquarters of Huawei
Technologies Co., Ltd., Bantian, Longgang District,
Shenzhen, 518129, P.R.C

Date of Receipt : 12/03/2013
Test Date : 13/03/2013~06/04/2013
Issued Date : 29/05/2013
Report No. : 133S023R-RF-US-P06V01
Report Version : V2.1

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date : 29/05/2013

Report No. : 133S023R-RF-US-P06V01



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Manufacturer : Huawei Technologies Co., Ltd.

Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Model No. : HUAWEI G350-U151

FCC ID : QISG350-U151

EUT Voltage : DC 3.7V

Brand Name : HUAWEI

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2012
ANSI C63.4: 2009

Test Result : Complied

Performed Location : Suzhou EMC Laboratory
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Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

| | | |
|----------------------|----------|-----------------------|
| Taiwan R.O.C. | : | BSMI, NCC, TAF |
| Germany | : | TUV Rheinland |
| Norway | : | Nemko, DNV |
| USA | : | FCC, NVLAP |
| Japan | : | VCCI |
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The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
<http://www.quietek.com/>

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TABLE OF CONTENTS

| Description | Page |
|--|------|
| 1. General Information | 6 |
| 1.1. EUT Description | 6 |
| 1.2. Mode of Operation..... | 10 |
| 1.3. Tested System Details | 11 |
| 1.4. Configuration of Tested System..... | 12 |
| 1.5. EUT Exercise Software..... | 13 |
| 2. Technical Test | 14 |
| 2.1. Summary of Test Result..... | 14 |
| 2.2. Test Environment..... | 15 |
| 3. Conducted Emission..... | 16 |
| 3.1. Test Equipment..... | 16 |
| 3.2. Test Setup..... | 16 |
| 3.3. Limit..... | 17 |
| 3.4. Test Procedure | 17 |
| 3.5. Uncertainty | 17 |
| 3.6. Test Result..... | 18 |
| 4. Radiated Emission..... | 20 |
| 4.1. Test Equipment..... | 20 |
| 4.2. Test Setup..... | 21 |
| 4.3. Limit..... | 22 |
| 4.4. Test Procedure | 22 |
| 4.5. Uncertainty | 23 |
| 4.6. Test Result..... | 24 |
| 5. RF Antenna Conducted Spurious | 27 |
| 5.1. Test Equipment..... | 27 |
| 5.2. Test Setup..... | 27 |
| 5.3. Limit..... | 27 |
| 5.4. Test Procedure | 28 |
| 5.5. Uncertainty | 28 |
| 5.6. Test Result..... | 29 |
| 6. Radiated Emission Band Edge | 35 |
| 6.1. Test Equipment..... | 35 |
| 6.2. Test Setup..... | 36 |
| 6.3. Limit..... | 36 |
| 6.4. Test Procedure | 36 |
| 6.5. Uncertainty | 36 |
| 6.6. Test Result..... | 37 |

| | | |
|-------|--|----|
| 7. | Operation Frequency Range of 20dB Bandwidth..... | 61 |
| 7.1. | Test Equipment..... | 61 |
| 7.2. | Test Setup..... | 61 |
| 7.3. | Limit..... | 61 |
| 7.4. | Test Procedure | 61 |
| 7.5. | Uncertainty | 61 |
| 7.6. | Test Result..... | 62 |
| 8. | Occupied Bandwidth..... | 65 |
| 8.1. | Test Equipment..... | 65 |
| 8.2. | Test Setup..... | 65 |
| 8.3. | Limit..... | 65 |
| 8.4. | Test Procedure | 65 |
| 8.5. | Uncertainty | 65 |
| 8.6. | Test Result..... | 66 |
| 9. | Power Output..... | 78 |
| 9.1. | Test Equipment..... | 78 |
| 9.2. | Test Setup..... | 78 |
| 9.3. | Limit..... | 78 |
| 9.4. | Test Procedure | 79 |
| 9.5. | Uncertainty | 79 |
| 9.6. | Test Result..... | 80 |
| 10. | Power Spectral Density..... | 84 |
| 10.1. | Test Equipment..... | 84 |
| 10.2. | Test Setup..... | 84 |
| 10.3. | Limit..... | 84 |
| 10.4. | Test Procedure | 85 |
| 10.5. | Uncertainty | 85 |
| 10.6. | Test Result..... | 86 |

1. General Information

1.1. EUT Description

| | |
|----------------------------------|---|
| Product Name | WCDMA Digital Mobile Phone |
| Model No. | HUAWEI G350-U151 |
| Hardware Version | P2 |
| Software Version for single card | G350-U151V100R001C00B118 |
| Software Version for double card | G350-U351V100R001C00B123 |
| Device Category | Portable |
| RF Exposure Environment | Uncontrolled |
| Antenna Type | Internal |
| GPS | |
| Class of SRD | Class 3 |
| 2G | |
| Support Band | GSM850/PCS1900 |
| GPRS Class | Class 12 |
| Uplink | GSM 850: 824~849MHz PCS 1900: 1850~1910MHz |
| Downlink | GSM 850: 869~894MHz PCS 1900: 1930~1990MHz |
| Release Version | Rel-6 |
| Type of modulation | GMSK for GSM/GPRS; 8PSK for EDGE |
| Antenna Gain | GSM 850: -2.50dBi PCS1900: 0.31dBi |
| 3G | |
| Support Band | WCDMA Band II/WCDMA Band V |
| Uplink | WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz |
| Downlink | WCDMA Band II: 1930~1990MHz WCDMA Band V: 869~894MHz |
| Release Version | UMTS FDD: Rel-6 |
| Type of modulation | QPSK |
| Antenna Gain | WCDMA Band II: 1.14dBi WCDMA Band V: -0.76dBi |

| Bluetooth | |
|-------------------------|--|
| Bluetooth Frequency | 2402~2480MHz |
| Bluetooth Version | V2.1 + EDR |
| Type of modulation | FHSS |
| Data Rate | 1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK) |
| Antenna Gain | 0.41dBi |
| Wi-Fi | |
| Hotspots Function | YES |
| Wi-Fi Frequency | 802.11b/g/n(20MHz): 2412 ~ 2462 MHz |
| Type of modulation | 802.11b: DSSS; 802.11g/n: OFDM |
| Data Rate | 802.11b: 1/2/5.5/11 Mbps |
| | 802.11g: 6/9/12/18/24/36/48/54 Mbps |
| | 802.11n: up to 150 Mbps |
| Antenna Gain | -1.52dBi |
| Components | |
| Headset Model Number #1 | HUAWEI/ 125G#+3261# 3.5MM-2 |
| Headset Model Number #2 | HUAWEI/ MEMD1532A761009 |
| Battery #1 | Brand Name: HUAWEI M/N: HB5V1HV Rated Voltage and Capacitance: 3.8V/1950mAh S/N: YAID130X16909379 |
| Battery #2 | Brand Name: HUAWEI M/N: HB5V1HV Rated Voltage and Capacitance: 3.8V/1950mAh S/N: YQCD104916910878 |
| Battery #3 | Brand Name: HUAWEI M/N: HB5V1 Rated Voltage and Capacitance: 3.7V/1730mAh S/N: GAGD217L20001271 |
| Battery #4 | Brand Name: HUAWEI M/N: HB5V1 Rated Voltage and Capacitance: 3.7V/1730mAh S/N: CABD110L20002578 |
| Battery #5 | Brand Name: HUAWEI M/N: HB5V1 Rated Voltage and Capacitance: 3.7V/1730mAh S/N: BAACB22L24638179 |

| | |
|------------|--|
| Adapter #1 | Brand Name: HUAWEI M/N: HW-050100U1W Input: 100-240V~50/60Hz 0.2A MAX Output: 5Vdc, 1.0A S/N: HKAD10400753 |
| Adapter #2 | Brand Name: HUAWEI M/N: HW-050100U1W Input: 100-240V~50/60Hz 0.2A MAX Output: 5Vdc, 1.0A S/N: TPACC0860553 |

For 2.4GHz Band

802.11b/g/n(20MHz) Working Frequency of Each Channel:

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 01 | 2412 MHz | 02 | 2417 MHz | 03 | 2422 MHz | 04 | 2427 MHz |
| 05 | 2432 MHz | 06 | 2437 MHz | 07 | 2442 MHz | 08 | 2447 MHz |
| 09 | 2452 MHz | 10 | 2457 MHz | 11 | 2462 MHz | N/A | N/A |

1.2. Mode of Operation

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| |
|-------------------------------------|
| Test Mode |
| Mode 1: Transmit by 802.11b |
| Mode 2: Transmit by 802.11g |
| Mode 3: Transmit by 802.11n (20MHz) |

Note:

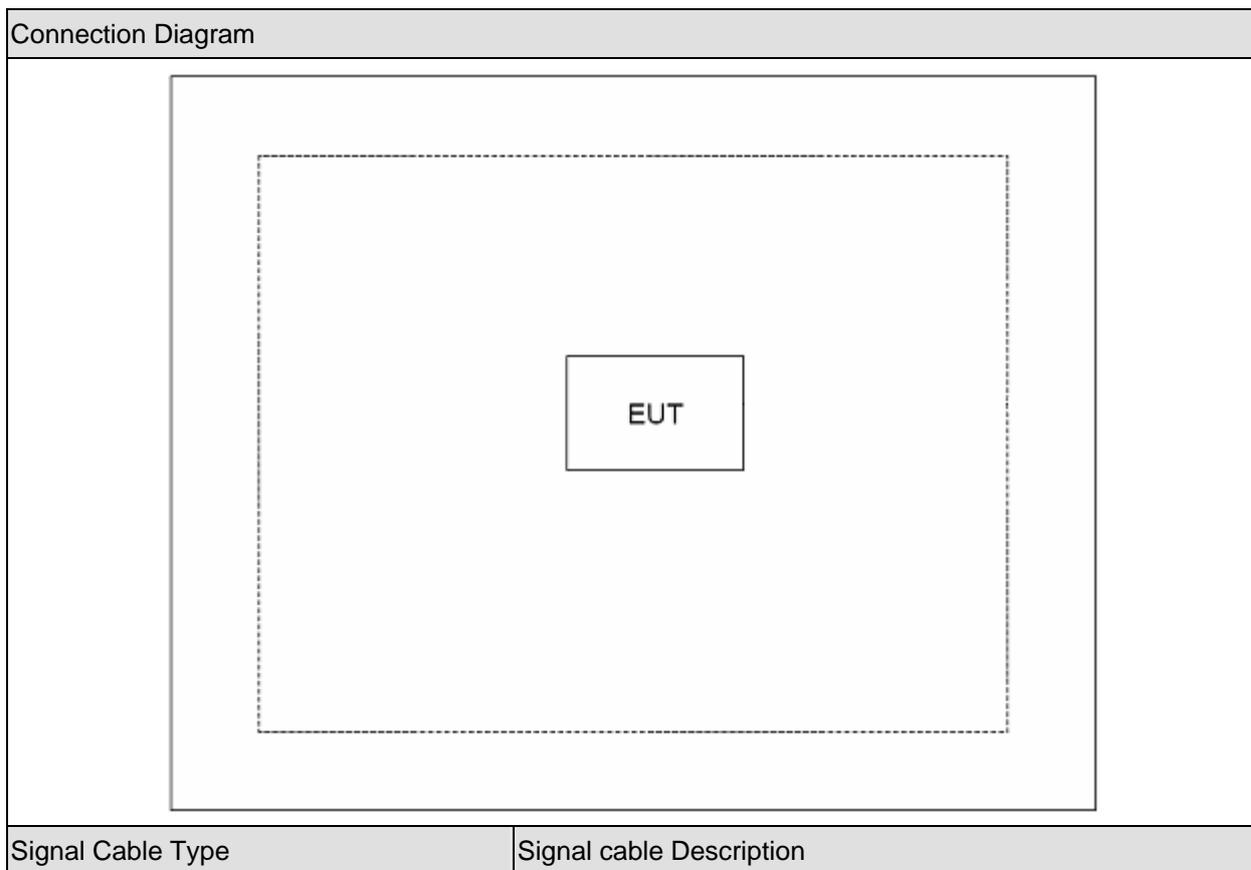
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 133293R-ITUSP01V02.

1.3. Tested System Details

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

| | Product | Manufacturer | Model No. | Serial No. | Power Cord |
|---|---------|--------------|-----------|------------|------------|
| 1 | N/A | N/A | N/A | N/A | N/A |

1.4. Configuration of Tested System



1.5. EUT Exercise Software

| | |
|---|---|
| 1 | Setup the EUT and simulators as shown on above. |
| 2 | Turn on the power of equipment. |
| 3 | Run the RF test software, and set the test mode and channel, then start continue transmit or receive. |

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

| Performed Test Item | Normative References | Test Performed | Deviation |
|--|--|----------------|-----------|
| Conducted Emission | FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.207 | Yes | No |
| Radiated Emission | FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.209 | Yes | No |
| RF Antenna Conducted Spurious | FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(d) | Yes | No |
| Radiated Emission Band Edge | FCC CFR Title 47 Part 15 Subpart C: 2012 15.247(d) | Yes | No |
| Operation Frequency Range of 20dB Bandwidth | FCC CFR Title 47 Part 15 Subpart C: 2012 15.215(c) | Yes | No |
| Occupied Bandwidth | FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(a)(2) | Yes | No |
| Power Output | FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(b)(3) | Yes | No |
| Power Spectral Density | FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(e) | Yes | No |

2.2. Test Environment

| Items | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|----------|
| Temperature (°C) | 15-35 | 21 |
| Humidity (%RH) | 25-75 | 50 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

3. Conducted Emission

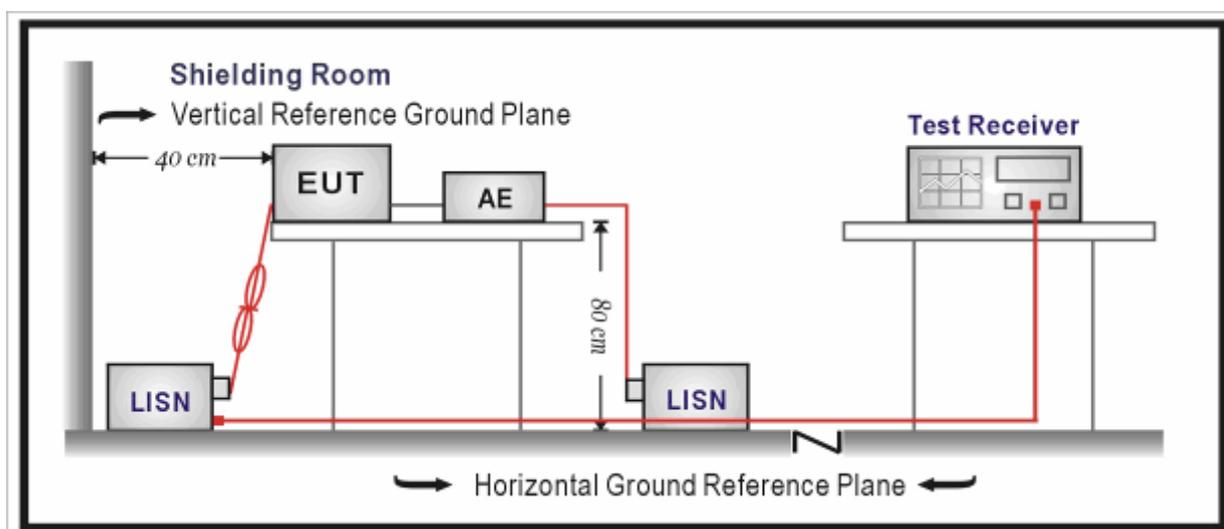
3.1. Test Equipment

Conducted Emission / TR-1

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|----------------------------|--------------|----------|------------|------------|
| EMI Test Receiver | R&S | ESCI | 100726 | 2014.03.30 |
| Two-Line V-Network | R&S | ENV216 | 100043 | 2014.03.30 |
| Two-Line V-Network | R&S | ENV216 | 100044 | 2013.09.17 |
| 50ohm Coaxial Switch | Anritsu | MP59B | 6200464462 | 2014.03.01 |
| 50ohm Termination | SHX | TF2 | 07081401 | 2013.09.17 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | TR1-TH | 2014.01.10 |

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

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

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

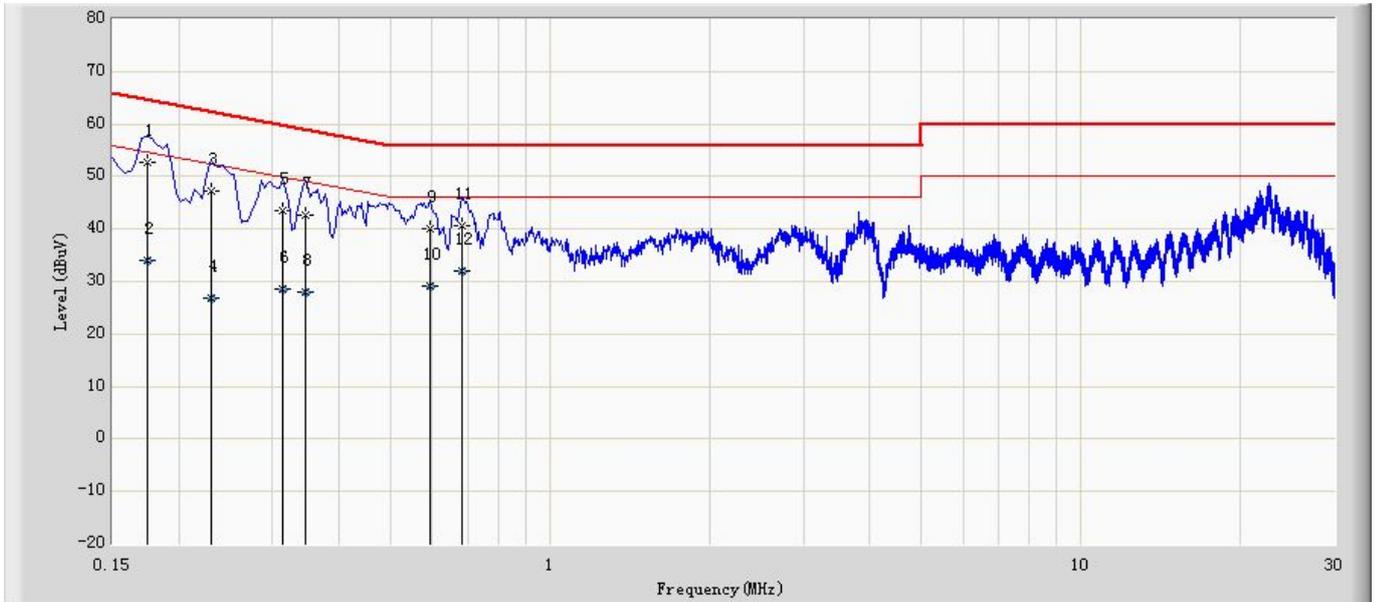
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

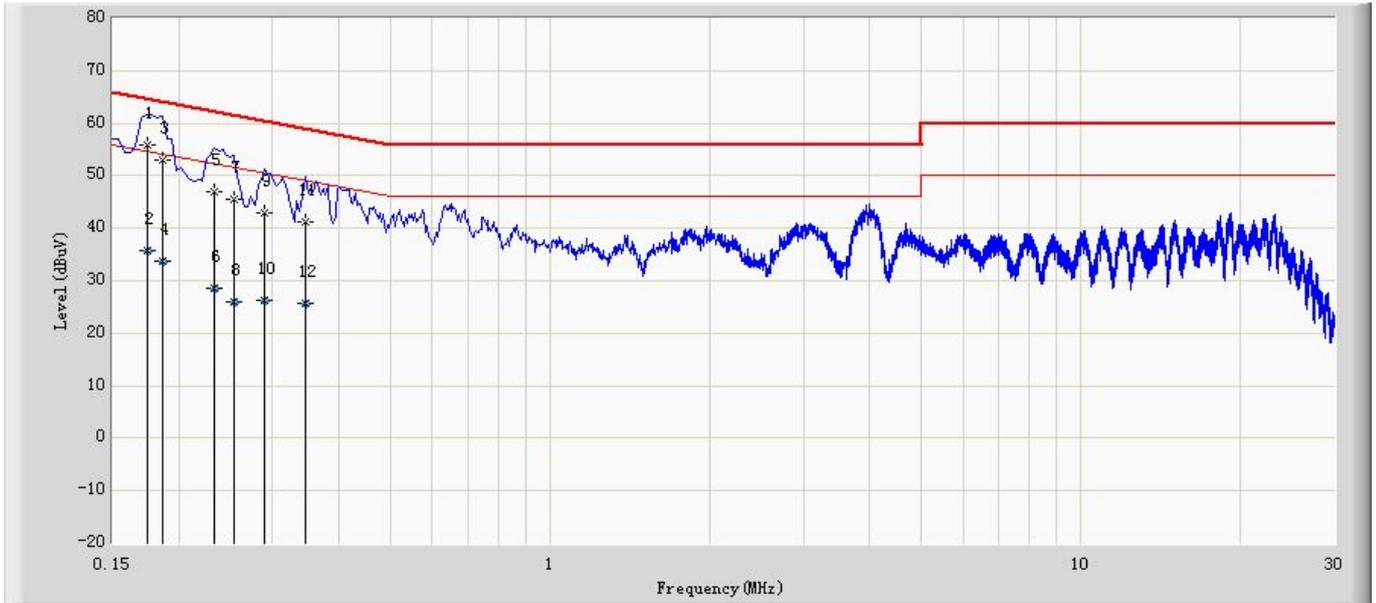
3.6. Test Result

| | |
|--|--------------------------|
| Engineer: Jack | |
| Site: TR5 | Time: 2013/03/19 - 19:17 |
| Limit: FCC_Part15.207_CE_AC Power_ClassB | Margin: 0 |
| Probe: ENV216_101044(0.009-30MHz) | Polarity: Line |
| EUT: WCDMA Digital Mobile Phone | Power: AC 120V/60Hz |
| Note: Mode 1 | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1 | * | 0.174 | 52.666 | 42.841 | -12.102 | 64.767 | 9.825 | QP |
| 2 | | 0.174 | 34.039 | 24.214 | -20.729 | 54.767 | 9.825 | AV |
| 3 | | 0.230 | 47.109 | 37.294 | -15.341 | 62.450 | 9.814 | QP |
| 4 | | 0.230 | 26.739 | 16.925 | -25.711 | 52.450 | 9.814 | AV |
| 5 | | 0.314 | 43.470 | 33.637 | -16.394 | 59.864 | 9.832 | QP |
| 6 | | 0.314 | 28.490 | 18.657 | -21.374 | 49.864 | 9.832 | AV |
| 7 | | 0.346 | 42.629 | 32.783 | -16.429 | 59.058 | 9.846 | QP |
| 8 | | 0.346 | 28.083 | 18.237 | -20.975 | 49.058 | 9.846 | AV |
| 9 | | 0.594 | 40.033 | 30.177 | -15.967 | 56.000 | 9.857 | QP |
| 10 | | 0.594 | 29.067 | 19.210 | -16.933 | 46.000 | 9.857 | AV |
| 11 | | 0.682 | 40.775 | 30.951 | -15.225 | 56.000 | 9.824 | QP |
| 12 | | 0.682 | 31.955 | 22.131 | -14.045 | 46.000 | 9.824 | AV |

| | |
|--|--------------------------|
| Engineer: Jack | |
| Site: TR5 | Time: 2013/03/19 - 19:13 |
| Limit: FCC_Part15.207_CE_AC Power_ClassB | Margin: 0 |
| Probe: ENV216_101044(0.009-30MHz) | Polarity: Neutral |
| EUT: WCDMA Digital Mobile Phone | Power: AC 120V/60Hz |
| Note: Mode 1 | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1 | * | 0.174 | 55.932 | 46.108 | -8.835 | 64.767 | 9.825 | QP |
| 2 | | 0.174 | 35.674 | 25.849 | -19.093 | 54.767 | 9.825 | AV |
| 3 | | 0.186 | 53.096 | 43.276 | -11.117 | 64.213 | 9.820 | QP |
| 4 | | 0.186 | 33.869 | 24.049 | -20.344 | 54.213 | 9.820 | AV |
| 5 | | 0.234 | 46.965 | 37.150 | -15.341 | 62.307 | 9.815 | QP |
| 6 | | 0.234 | 28.651 | 18.836 | -23.656 | 52.307 | 9.815 | AV |
| 7 | | 0.254 | 45.469 | 35.636 | -16.156 | 61.625 | 9.834 | QP |
| 8 | | 0.254 | 25.957 | 16.124 | -25.668 | 51.625 | 9.834 | AV |
| 9 | | 0.290 | 42.893 | 33.058 | -17.631 | 60.524 | 9.835 | QP |
| 10 | | 0.290 | 26.206 | 16.371 | -24.318 | 50.524 | 9.835 | AV |
| 11 | | 0.346 | 41.081 | 31.235 | -17.977 | 59.058 | 9.846 | QP |
| 12 | | 0.346 | 25.828 | 15.982 | -23.230 | 49.058 | 9.846 | AV |

4. Radiated Emission

4.1. Test Equipment

Radiated Emission / AC-2

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|----------------------------|--------------|--------------|------------|------------|
| EMI Test Receiver | R&S | ESCI | 100573 | 2014.04.30 |
| Loop Antenna | R&S | HFH2-Z2 | 833799/003 | 2013.11.17 |
| Bilog Antenna | Teseq GmbH | CBL6112D | 27611 | 2013.10.15 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC2-C | 2014.03.01 |
| Temperature/Humidity Meter | Zhicheng | ZC1-2 | AC2-TH | 2013.05.07 |

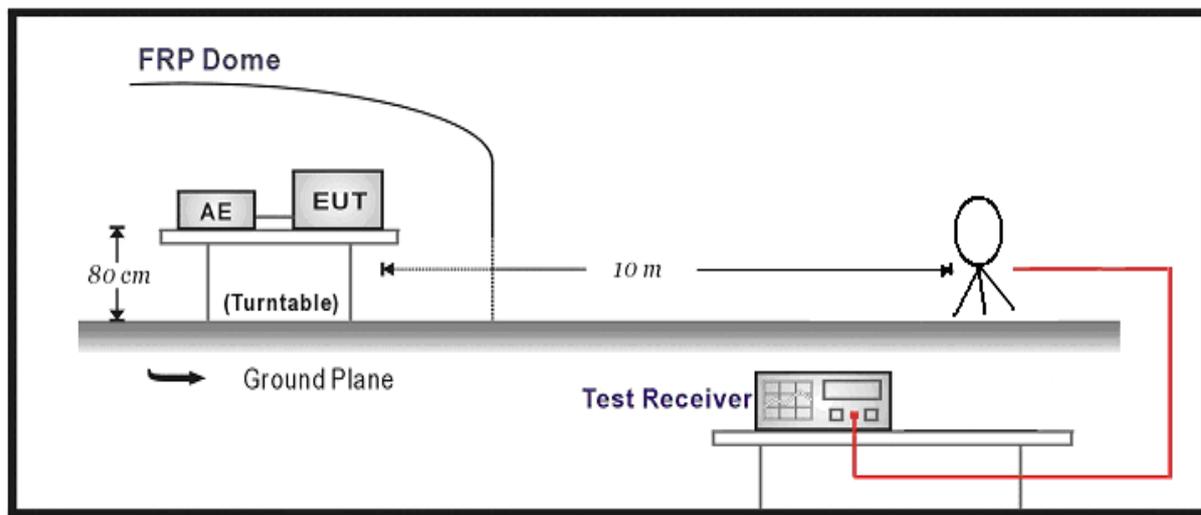
Radiated Emission / AC-5

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|----------------------------|--------------|--------------|-------------|------------|
| Spectrum Analyzer | Agilent | N9010A | MY48030494 | 2014.03.30 |
| Preamplifier | Miteq | NSP1800-25 | 1364185 | 2013.05.04 |
| Preamplifier | Quietek | AP-040G | CHM-0906001 | 2013.05.04 |
| Bilog Antenna | Teseq GmbH | CBL6112D | 27612 | 2013.10.15 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9120D | 499 | 2014.06.08 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9170 | 294 | 2013.11.24 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C1 | 2014.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C2 | 2014.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | AC5-C3 | 2014.03.01 |
| Temperature/Humidity Meter | Zhicheng | ZC1-2 | AC5-TH | 2014.01.11 |

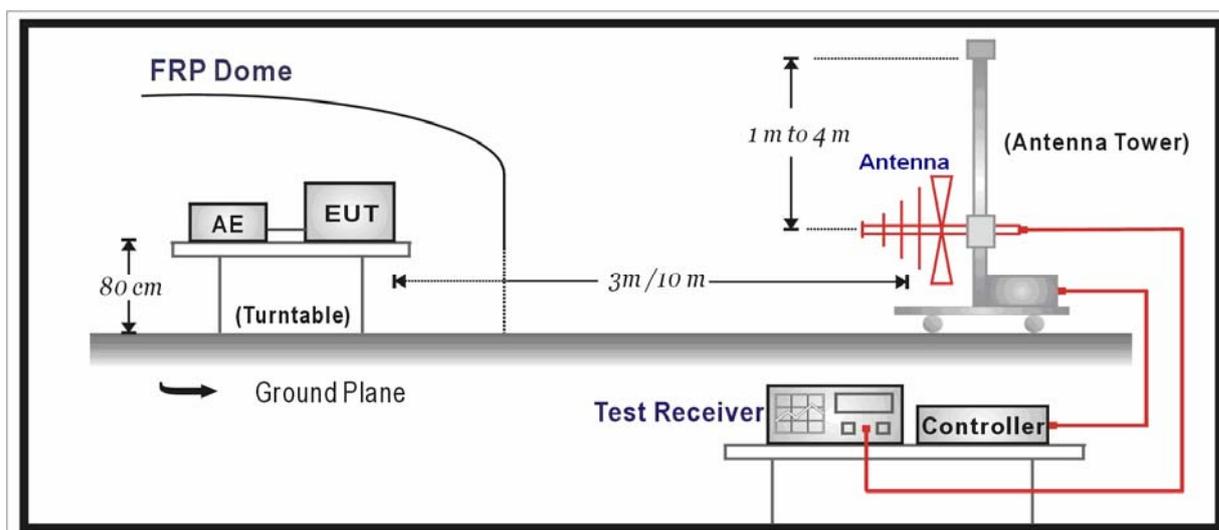
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup

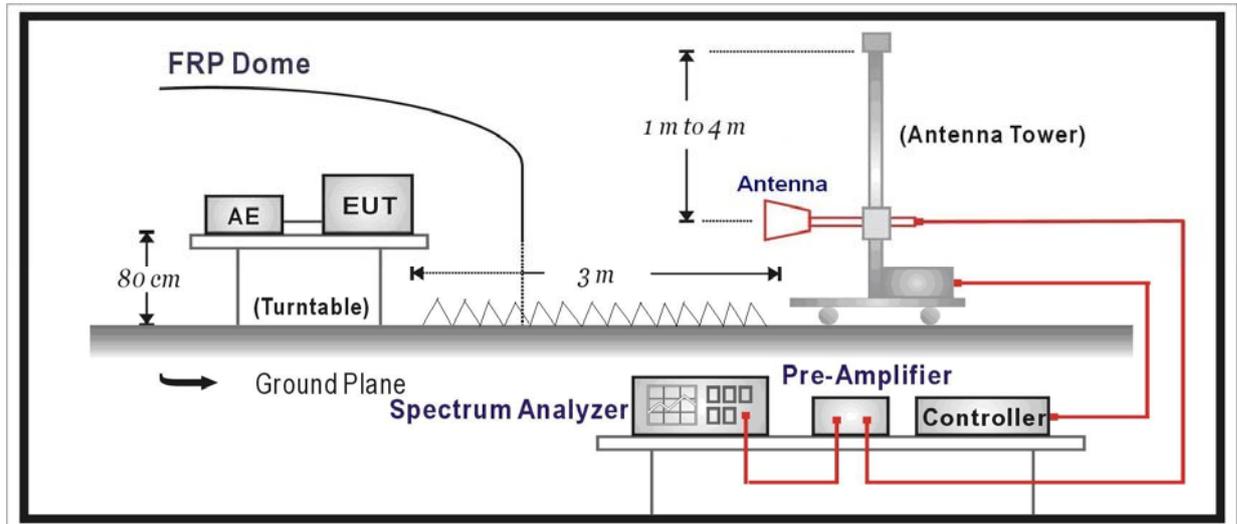
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|--|--------------|----------------|
| Frequency (MHz) | Distance (m) | Level (dBuV/m) |
| 30 - 88 | 3 | 40 |
| 88 - 216 | 3 | 43.5 |
| 216 - 960 | 3 | 46 |
| Above 960 | 3 | 54 |

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 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 is scanned from 1 meter to 4 meters to find out the maximum emission level. This

is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4: 2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

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

Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 60 degrees for H-plane and 90 degrees for E-plane.

4.5. Uncertainty

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

below 1G is defined as ± 3.8 dB

4.6. Test Result

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preamplifier Gain

Mode1: Transmit at 802.11b

| CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|----|---------|-----------------|------------------------|-------------|------------------------|----------------|-------------|----------|
| 1 | H | 2412.0 | 68.7 | 28.2 | 96.9 | Fundamental | / | PK |
| | V | 320.2 | 8.0 | 15.3 | 23.3 | 46 | -22.7 | QP |
| | V | 766.1 | 4.1 | 20.5 | 24.6 | 46 | -21.4 | QP |
| | V | 3122.5 | 43.0 | -0.2 | 42.8 | 54(Note3) | -11.2 | PK |
| | V | 4825.0 | 43.2 | 2.6 | 45.8 | 54(Note3) | -8.2 | PK |
| | V | 7236.0 | 40.1 | 8.9 | 49.0 | 54(Note3) | -5.0 | PK |
| | H | 24000.0 | 34.1 | 18.8 | 50.2 | 54(note3) | -3.8 | PK |
| 6 | H | 2437.0 | 69.3 | 28.1 | 97.4 | Fundamental | / | PK |
| | V | 655.0 | 3.6 | 19.5 | 23.1 | 46 | -22.9 | QP |
| | V | 728.7 | 3.6 | 19.9 | 23.5 | 46 | -22.5 | QP |
| | V | 3122.5 | 43.8 | -0.2 | 43.6 | 54(Note3) | -10.4 | PK |
| | V | 4876.0 | 46.8 | 2.8 | 49.5 | 54(Note3) | -4.5 | PK |
| | V | 7311.0 | 40.6 | 8.8 | 49.4 | 54(Note3) | -4.6 | PK |
| | H | 24000.0 | 34.1 | 18.8 | 50.2 | 54(note3) | -3.8 | PK |
| 11 | H | 2462.0 | 70.1 | 28.4 | 98.5 | Fundamental | / | PK |
| | V | 600.2 | 7.4 | 21.2 | 28.6 | 46 | -17.4 | QP |
| | V | 780.2 | 4.1 | 20.7 | 24.8 | 46 | -21.2 | QP |
| | V | 3122.5 | 43.2 | -0.2 | 43.0 | 54(Note3) | -11.0 | PK |
| | V | 4927.0 | 49.2 | 3.0 | 52.3 | 54(Note3) | -1.7 | PK |
| | V | 7386.0 | 40.9 | 8.9 | 49.8 | 54(Note3) | -4.2 | PK |
| | H | 24000.0 | 34.1 | 18.8 | 50.2 | 54(note3) | -3.8 | PK |

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode2: Transmit at 802.11g

| CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|----|---------|-----------------|------------------------|-------------|------------------------|----------------|-------------|----------|
| 1 | H | 2418.6 | 66.2 | 28.2 | 94.5 | Fundamental | / | PK |
| | V | 652.6 | 3.6 | 19.5 | 23.1 | 46 | -22.9 | QP |
| | V | 795.7 | 4.0 | 20.8 | 24.8 | 46 | -21.2 | QP |
| | V | 3122.5 | 42.9 | -0.2 | 42.7 | 54(Note3) | -11.3 | PK |
| | V | 4824.0 | 41.5 | 2.6 | 44.1 | 54(Note3) | -9.9 | PK |
| | V | 7236.0 | 40.2 | 8.9 | 49.1 | 54(Note3) | -4.9 | PK |
| | H | 24000.0 | 34.1 | 18.8 | 50.2 | 54(note3) | -3.8 | PK |
| 6 | H | 2437.0 | 68.4 | 27.8 | 96.2 | Fundamental | / | PK |
| | V | 652.6 | 2.9 | 19.5 | 22.4 | 46 | -23.6 | QP |
| | V | 795.2 | 2.8 | 20.8 | 23.6 | 46 | -22.4 | QP |
| | V | 3122.5 | 43.1 | -0.2 | 42.9 | 54(Note3) | -11.1 | PK |
| | V | 4876.0 | 43.3 | 2.8 | 46.1 | 54(Note3) | -7.9 | PK |
| | V | 7311.0 | 40.5 | 8.8 | 49.3 | 54(Note3) | -4.7 | PK |
| | H | 24000.0 | 34.1 | 18.8 | 50.2 | 54(note3) | -3.8 | PK |
| 11 | H | 2468.3 | 69.4 | 28.5 | 97.8 | Fundamental | / | PK |
| | V | 652.6 | 3.7 | 19.5 | 23.2 | 46 | -22.8 | QP |
| | V | 753.5 | 3.4 | 20.4 | 23.8 | 46 | -22.2 | QP |
| | V | 3122.5 | 43.6 | -0.2 | 43.4 | 54(Note3) | -10.6 | PK |
| | V | 4927.0 | 43.9 | 3.0 | 46.9 | 54(Note3) | -7.1 | PK |
| | V | 7386.0 | 40.9 | 8.9 | 49.8 | 54(Note3) | -4.2 | PK |
| | H | 24000.0 | 34.1 | 18.8 | 50.2 | 54(note3) | -3.8 | PK |

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode3: Transmit at 802.11n(20MHz)

| CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|----|---------|-----------------|------------------------|-------------|------------------------|----------------|-------------|----------|
| 1 | H | 2416.8 | 64.5 | 27.7 | 92.7 | Fundamental | / | PK |
| | V | 652.6 | 3.7 | 19.5 | 23.2 | 46 | -22.8 | QP |
| | V | 755.4 | 3.3 | 20.4 | 23.7 | 46 | -22.3 | QP |
| | V | 3122.5 | 43.8 | -0.2 | 43.6 | 54(Note3) | -10.4 | PK |
| | V | 4824.0 | 41.9 | 2.6 | 44.5 | 54(Note3) | -9.5 | PK |
| | V | 7236.0 | 40.0 | 8.9 | 48.9 | 54(Note3) | -5.1 | PK |
| | H | 24000.0 | 34.1 | 18.8 | 50.2 | 54(note3) | -3.8 | PK |
| 6 | H | 2437.0 | 67.8 | 27.6 | 95.4 | Fundamental | / | PK |
| | V | 652.6 | 3.5 | 19.5 | 23.0 | 46 | -23.0 | QP |
| | V | 754.0 | 2.9 | 20.4 | 23.3 | 46 | -22.7 | QP |
| | V | 3122.5 | 43.2 | -0.2 | 43.0 | 54(Note3) | -11.0 | PK |
| | V | 4876.0 | 43.8 | 2.8 | 46.6 | 54(Note3) | -7.4 | PK |
| | V | 7311.0 | 40.2 | 8.8 | 49.0 | 54(Note3) | -5.0 | PK |
| | H | 24000.0 | 34.1 | 18.8 | 50.2 | 54(note3) | -3.8 | PK |
| 11 | H | 2462.2 | 70.5 | 27.9 | 98.9 | Fundamental | / | PK |
| | V | 652.6 | 4.0 | 19.5 | 23.5 | 46 | -22.5 | QP |
| | V | 760.3 | 3.0 | 20.5 | 23.4 | 46 | -22.6 | QP |
| | V | 3122.5 | 43.6 | -0.2 | 43.4 | 54(Note3) | -10.6 | PK |
| | V | 4927.0 | 43.5 | 3.0 | 46.5 | 54(Note3) | -7.5 | PK |
| | V | 7386.0 | 40.4 | 8.9 | 49.4 | 54(Note3) | -4.6 | PK |
| | H | 24000.0 | 34.1 | 18.8 | 50.2 | 54(note3) | -3.8 | PK |

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

5. RF Antenna Conducted Spurious

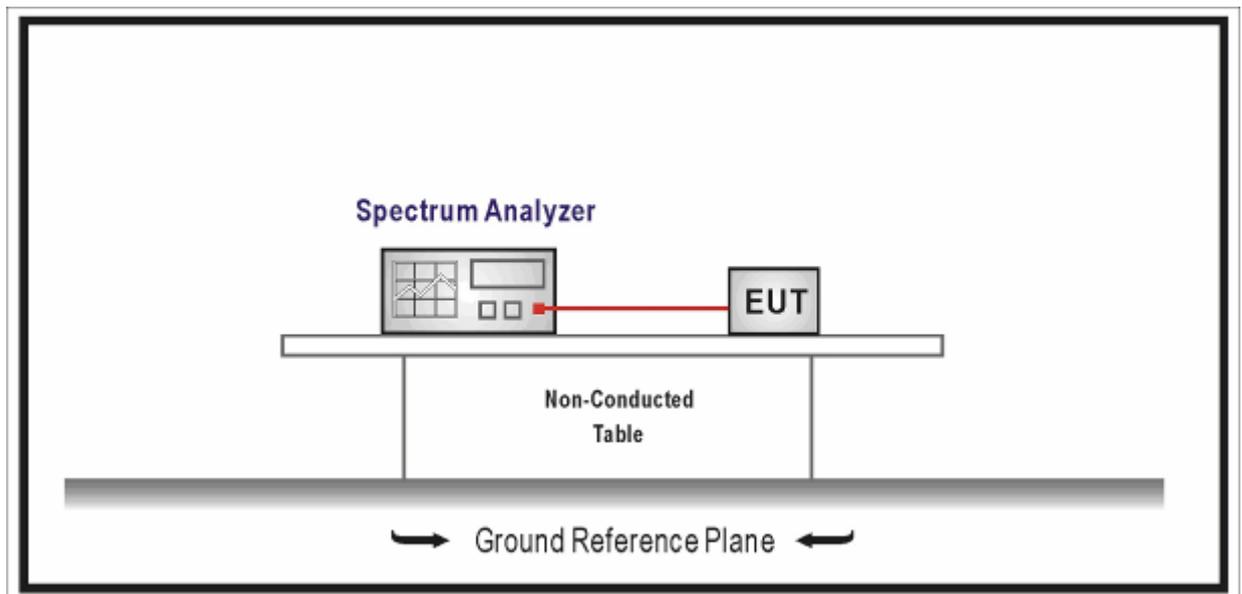
5.1. Test Equipment

RF Antenna Conducted Spurious / TR-8

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|----------------------------|--------------|----------|------------|------------|
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2014.01.21 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | TR8-TH | 2013.05.07 |

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup



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.

5.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

| | | |
|-----------|---|-------------------------------|
| Product | : | WCDMA Digital Mobile Phone |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b |

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

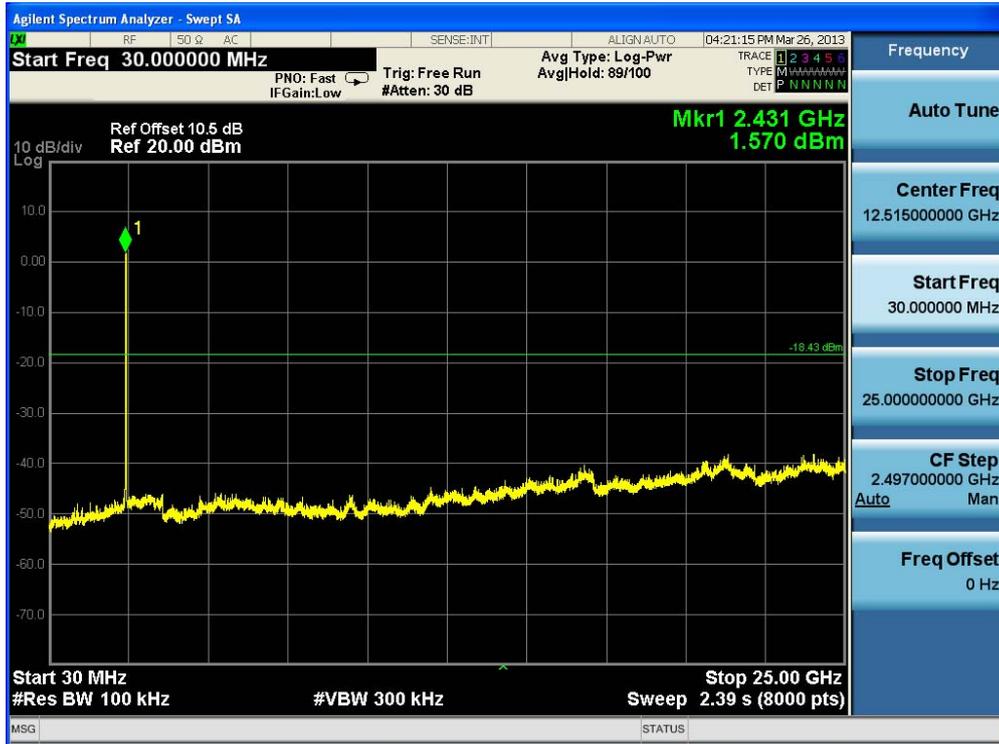


| | | |
|-----------|---|-------------------------------|
| Product | : | WCDMA Digital Mobile Phone |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g |

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



| | | |
|-----------|---|-------------------------------------|
| Product | : | WCDMA Digital Mobile Phone |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11n (20MHz) |

Channel 01 (2412MHz) Ant 1



Channel 06 (2437MHz)



Channel 11 (2462MHz)



6. Radiated Emission Band Edge

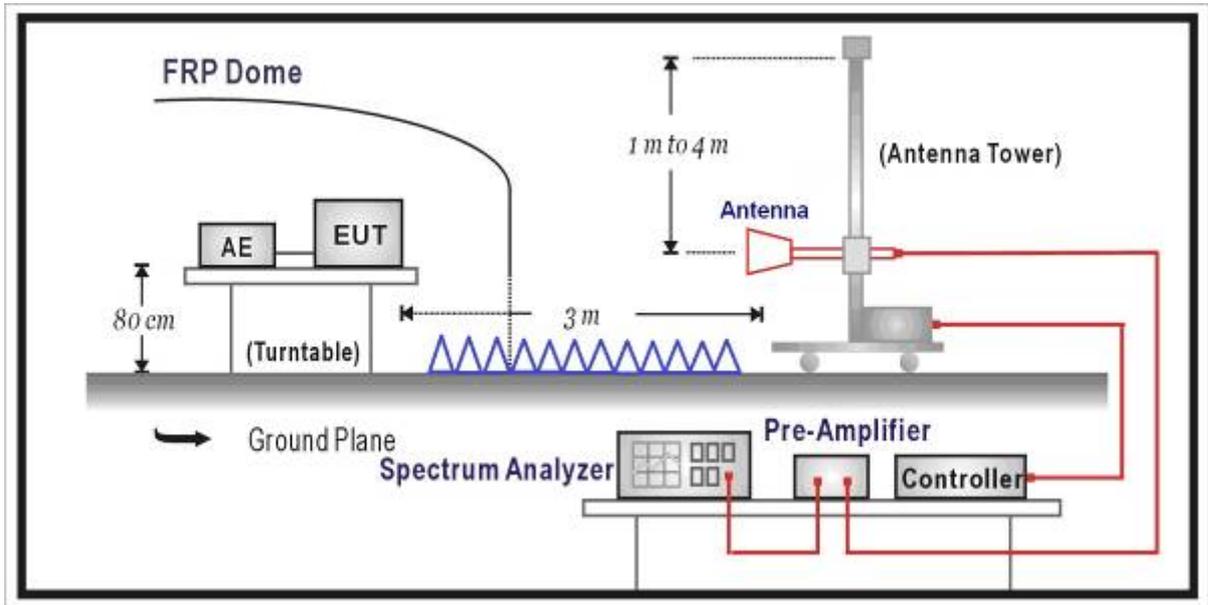
6.1. Test Equipment

Radiated Emission Band Edge / AC-5

| Instrument | Manufacturer | Type No. | Serial No. | Cali. Due Date |
|----------------------------|--------------|------------|-------------|----------------|
| Spectrum Analyzer | Agilent | N9010A | MY48030494 | 2014.03.30 |
| EMI Test Receiver | R&S | ESCI | 100573 | 2014.03.30 |
| Preamplifier | Miteq | NSP1800-25 | 1364185 | 2013.05.04 |
| Preamplifier | Quietek | AP-040G | CHM-0906001 | 2013.05.04 |
| Bilog Type Antenna | Schaffner | CBL6112B | 2932 | 2013.10.15 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9120D | 499 | 2014.06.08 |
| 50ohm Coaxial Switch | Anritsu | MP59B | 6200464462 | 2014.03.01 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | AC5-TH | 2014.01.10 |

Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

6.2. Test Setup



6.3. Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.4. Test Procedure

The EUT was setup according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 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 is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4: 2009 on radiated measurement.

6.5. Uncertainty

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

6.6. Test Result

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

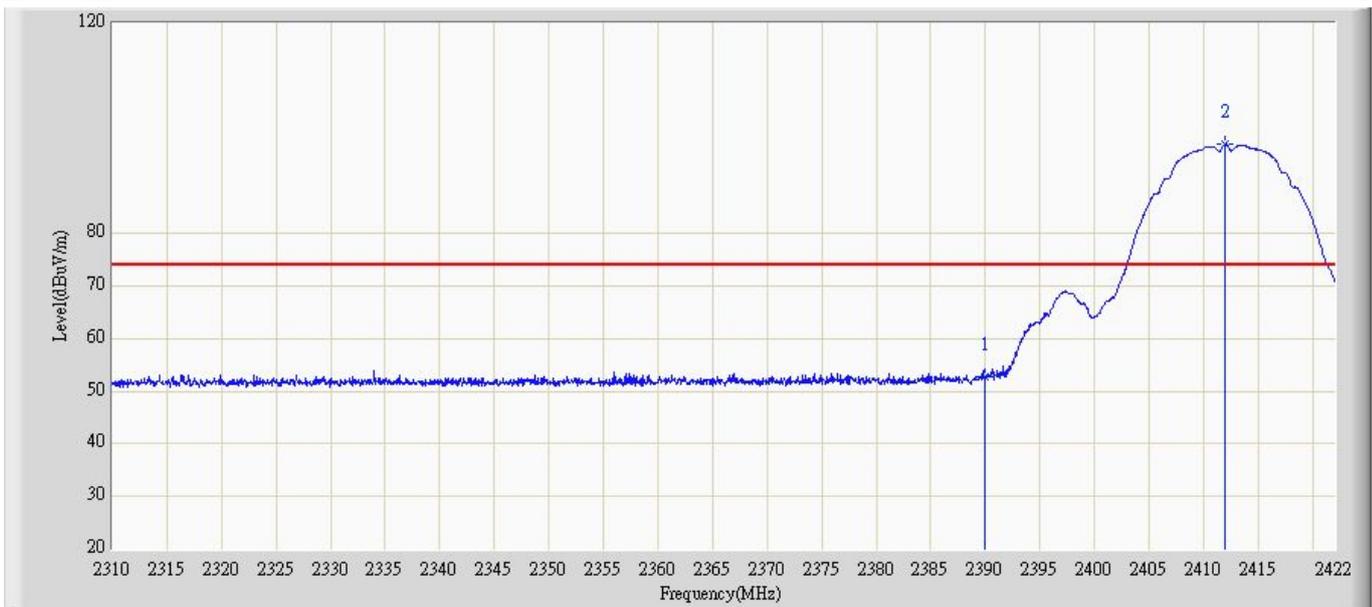
Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preamp Gain

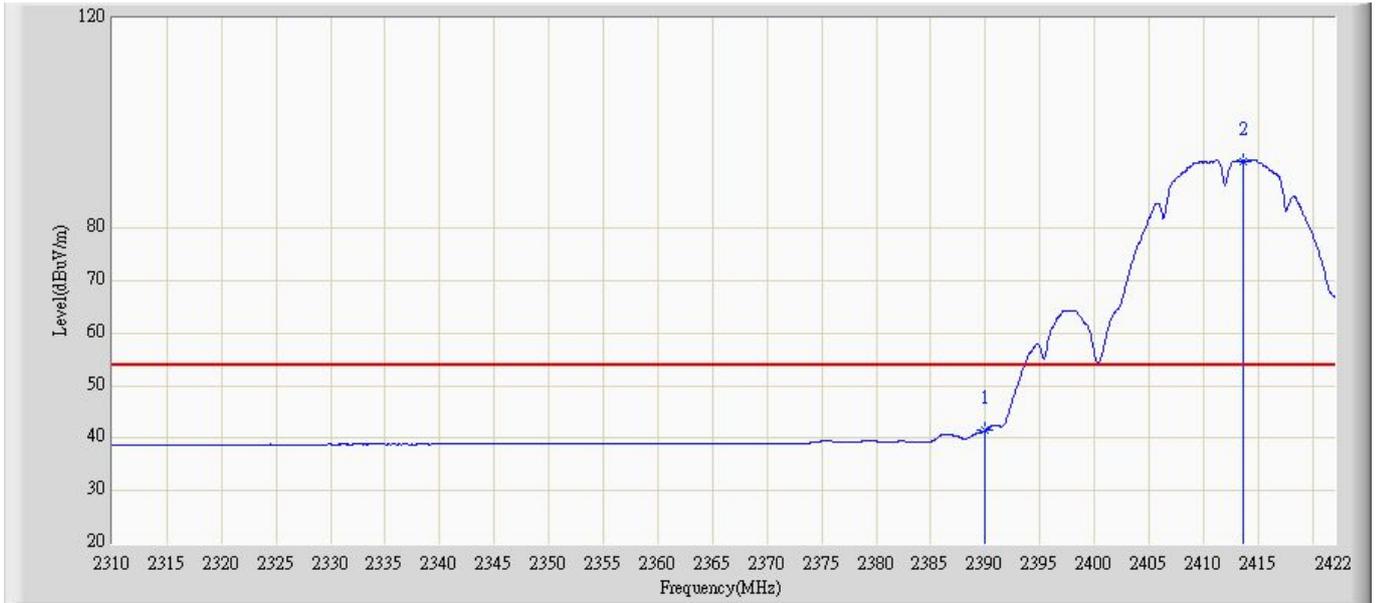
In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice will be followed.

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:07 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Horizontal |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 1: Transmit at Channel 2412MHz by 802.11b | |



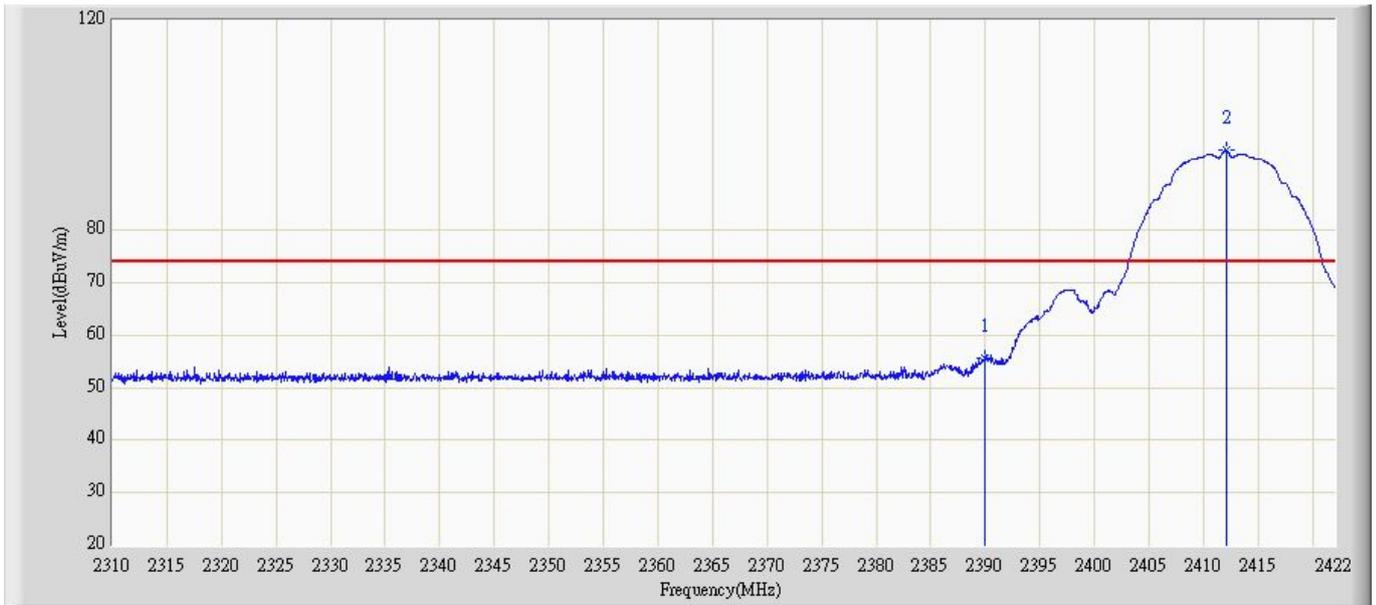
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 52.763 | 24.641 | -21.237 | 74.000 | 28.122 | PK |
| 2 | * | 2411.971 | 96.888 | 68.675 | N/A | N/A | 28.214 | PK |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Horizontal |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 1: Transmit at Channel 2412MHz by 802.11b | |



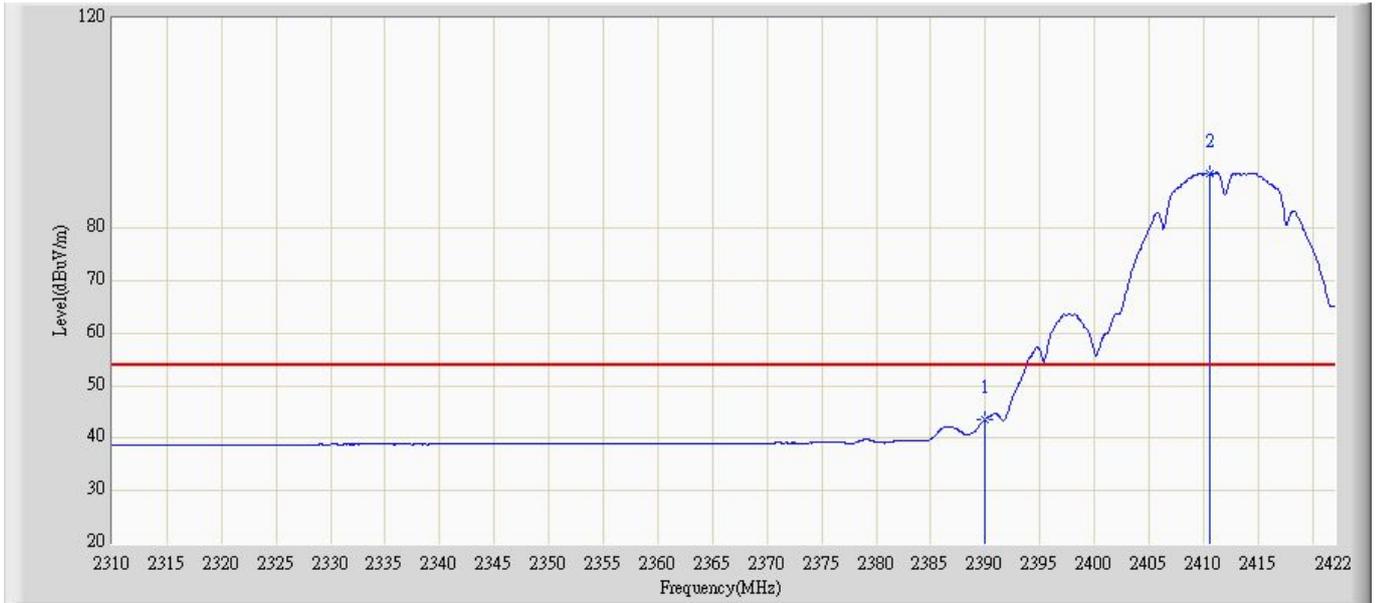
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 41.455 | 13.333 | -12.545 | 54.000 | 28.122 | AV |
| 2 | * | 2413.708 | 92.838 | 64.617 | N/A | N/A | 28.221 | AV |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Vertical |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 1: Transmit at Channel 2412MHz by 802.11b | |



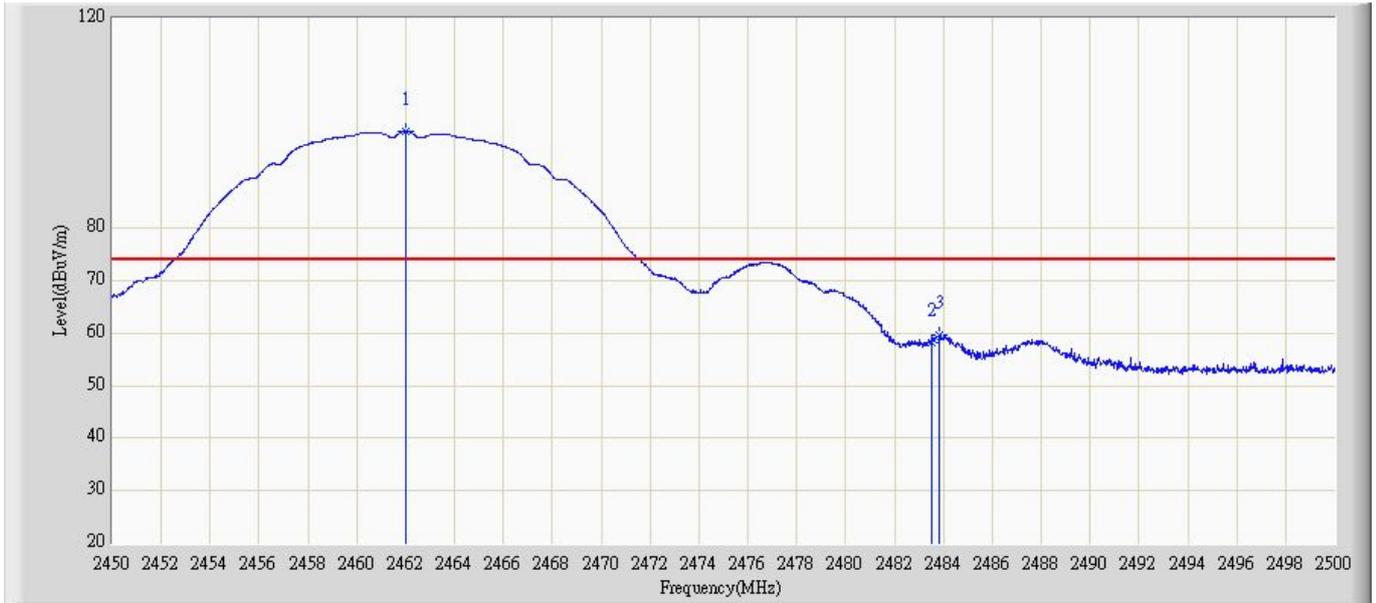
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 55.754 | 27.632 | -18.246 | 74.000 | 28.122 | PK |
| 2 | * | 2412.139 | 95.158 | 66.944 | N/A | N/A | 28.214 | PK |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:16 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Vertical |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 1: Transmit at Channel 2412MHz by 802.11b | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 43.693 | 15.571 | -10.307 | 54.000 | 28.122 | AV |
| 2 | * | 2410.626 | 90.367 | 62.160 | N/A | N/A | 28.208 | AV |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:18 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Horizontal |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 1: Transmit at Channel 2472MHz by 802.11b | |



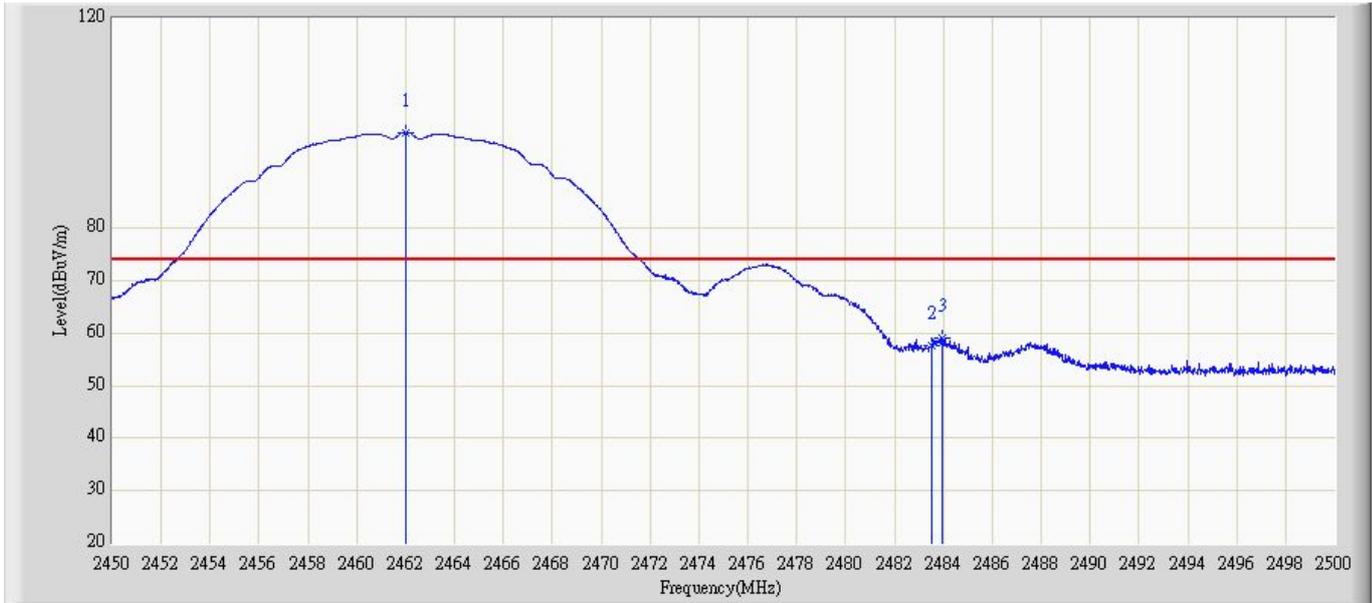
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.031 | 98.522 | 70.094 | N/A | N/A | 28.428 | PK |
| 2 | | 2483.500 | 58.322 | 29.808 | -15.678 | 74.000 | 28.514 | PK |
| 3 | | 2483.842 | 59.611 | 31.096 | -14.389 | 74.000 | 28.516 | PK |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:24 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Horizontal |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 1: Transmit at Channel 2472MHz by 802.11b | |



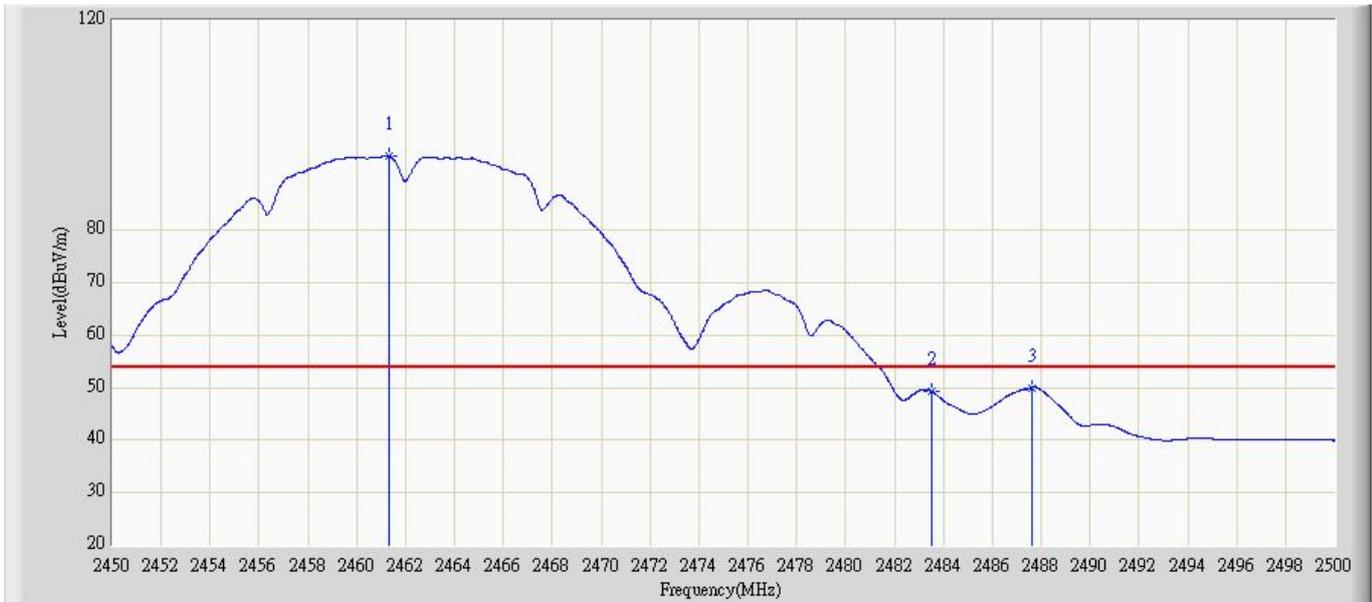
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2461.331 | 94.125 | 65.700 | N/A | N/A | 28.425 | AV |
| 2 | | 2483.500 | 47.773 | 19.259 | -6.227 | 54.000 | 28.514 | AV |
| 3 | | 2487.694 | 48.209 | 19.678 | -5.791 | 54.000 | 28.531 | AV |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:25 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Vertical |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 1: Transmit at Channel 2472MHz by 802.11b | |



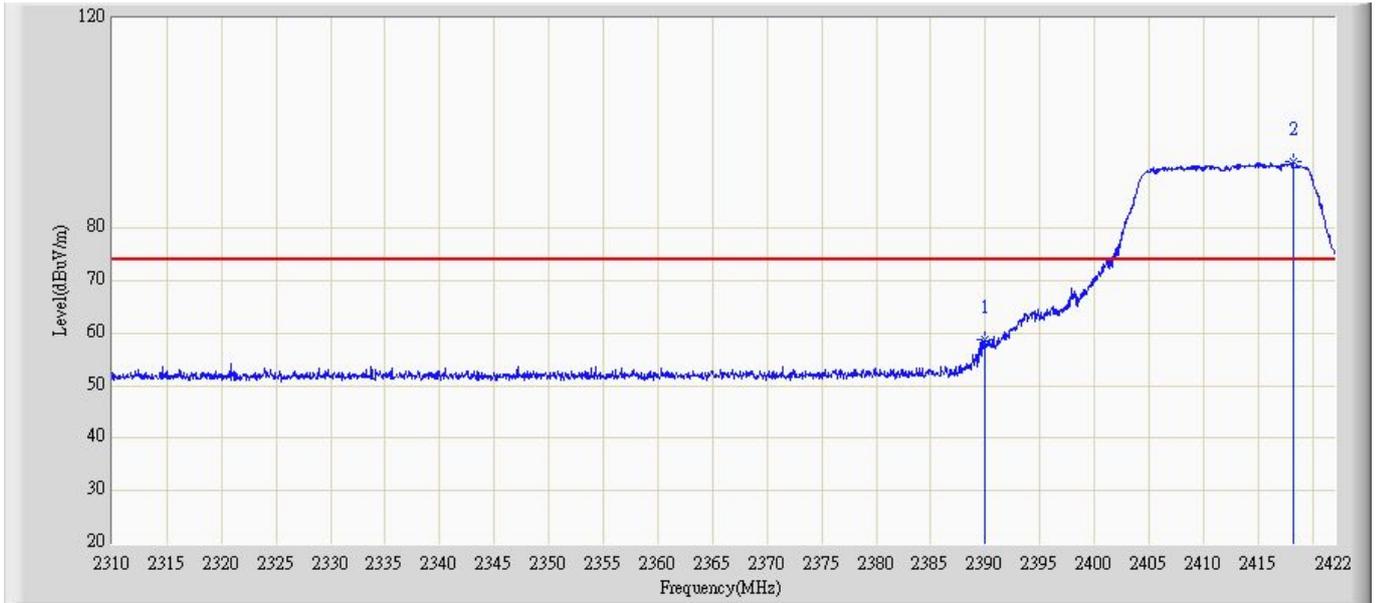
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.031 | 98.303 | 69.875 | N/A | N/A | 28.428 | PK |
| 2 | | 2483.500 | 57.606 | 29.092 | -16.394 | 74.000 | 28.514 | PK |
| 3 | | 2483.967 | 59.097 | 30.581 | -14.903 | 74.000 | 28.516 | PK |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:27 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Vertical |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 1: Transmit at Channel 2472MHz by 802.11b | |



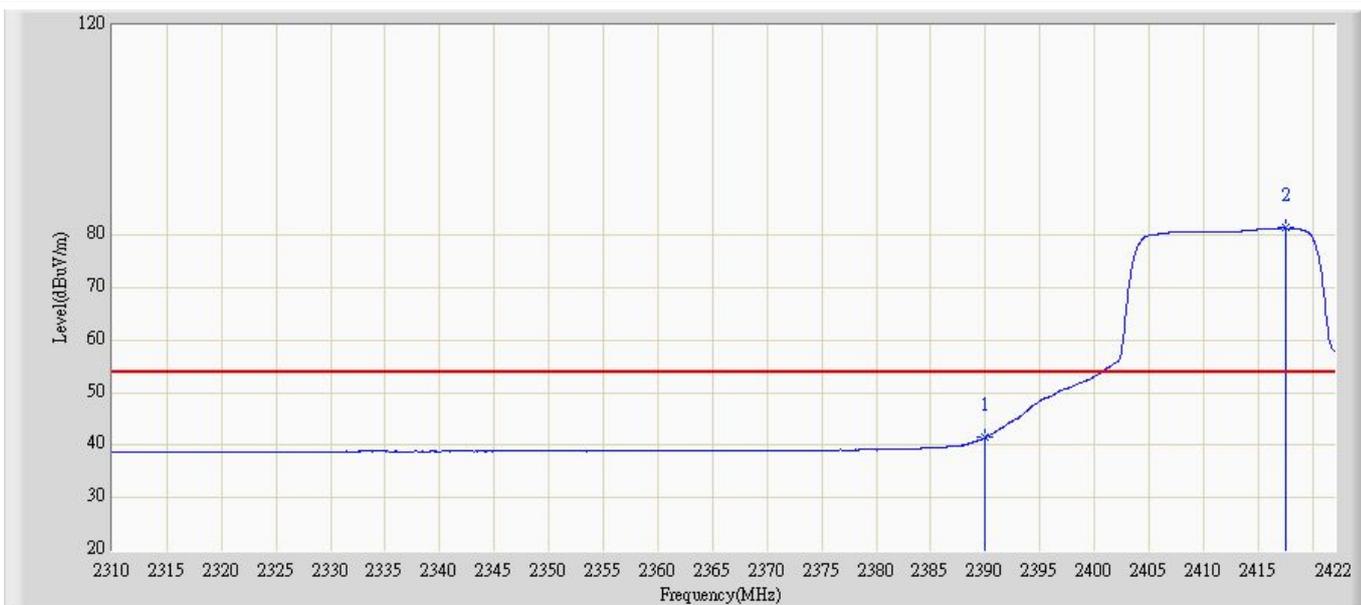
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2461.331 | 94.109 | 65.684 | N/A | N/A | 28.425 | AV |
| 2 | | 2483.500 | 49.366 | 20.852 | -4.634 | 54.000 | 28.514 | AV |
| 3 | | 2487.594 | 49.985 | 21.455 | -4.015 | 54.000 | 28.531 | AV |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:29 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Horizontal |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 2: Transmit at Channel 2412MHz by 802.11g | |



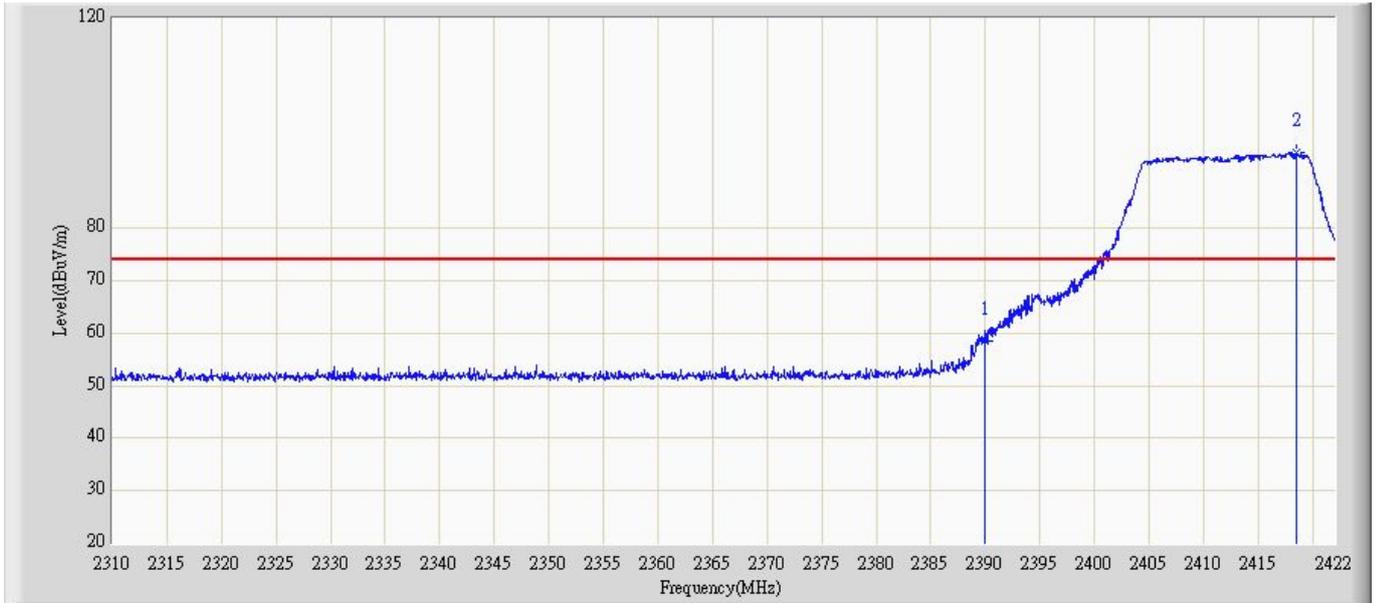
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 58.744 | 30.622 | -15.256 | 74.000 | 28.122 | PK |
| 2 | * | 2418.246 | 92.573 | 64.332 | N/A | N/A | 28.240 | PK |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:33 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Horizontal |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 2: Transmit at Channel 2412MHz by 802.11g | |



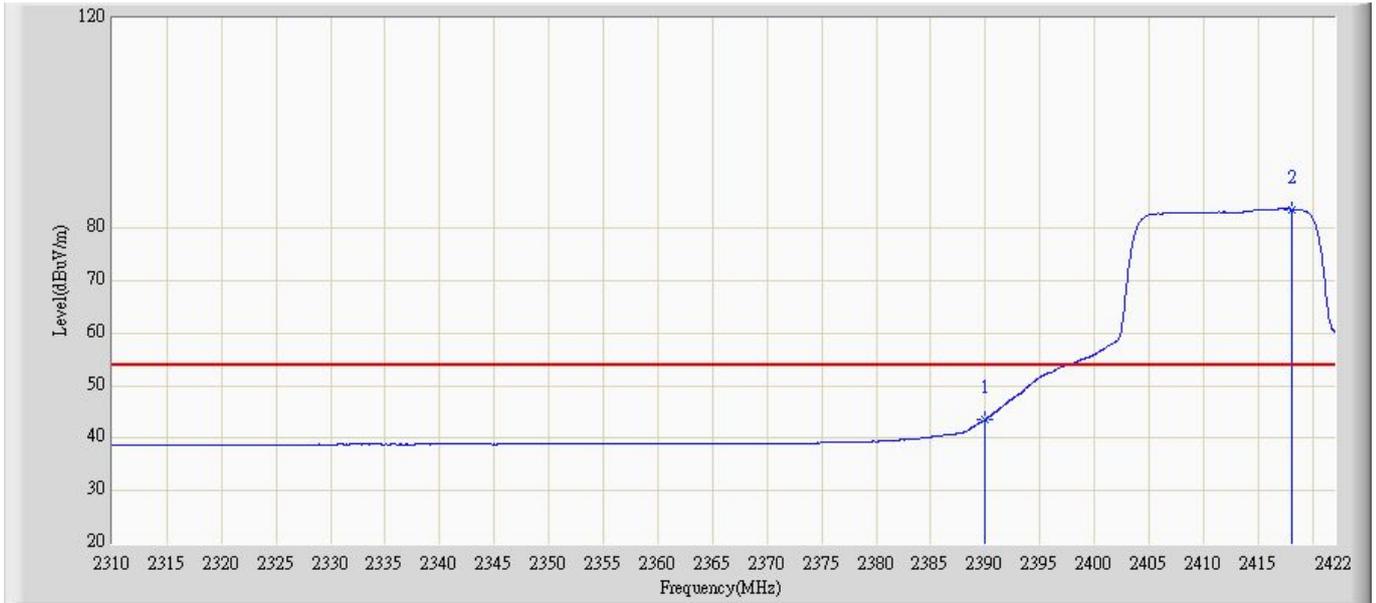
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 41.501 | 13.379 | -12.499 | 54.000 | 28.122 | AV |
| 2 | * | 2417.574 | 81.351 | 53.113 | N/A | N/A | 28.238 | AV |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:34 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Vertical |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 2: Transmit at Channel 2412MHz by 802.11g | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 58.403 | 30.281 | -15.597 | 74.000 | 28.122 | PK |
| 2 | * | 2418.582 | 94.473 | 66.231 | N/A | N/A | 28.242 | PK |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:36 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Vertical |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 2: Transmit at Channel 2412MHz by 802.11g | |



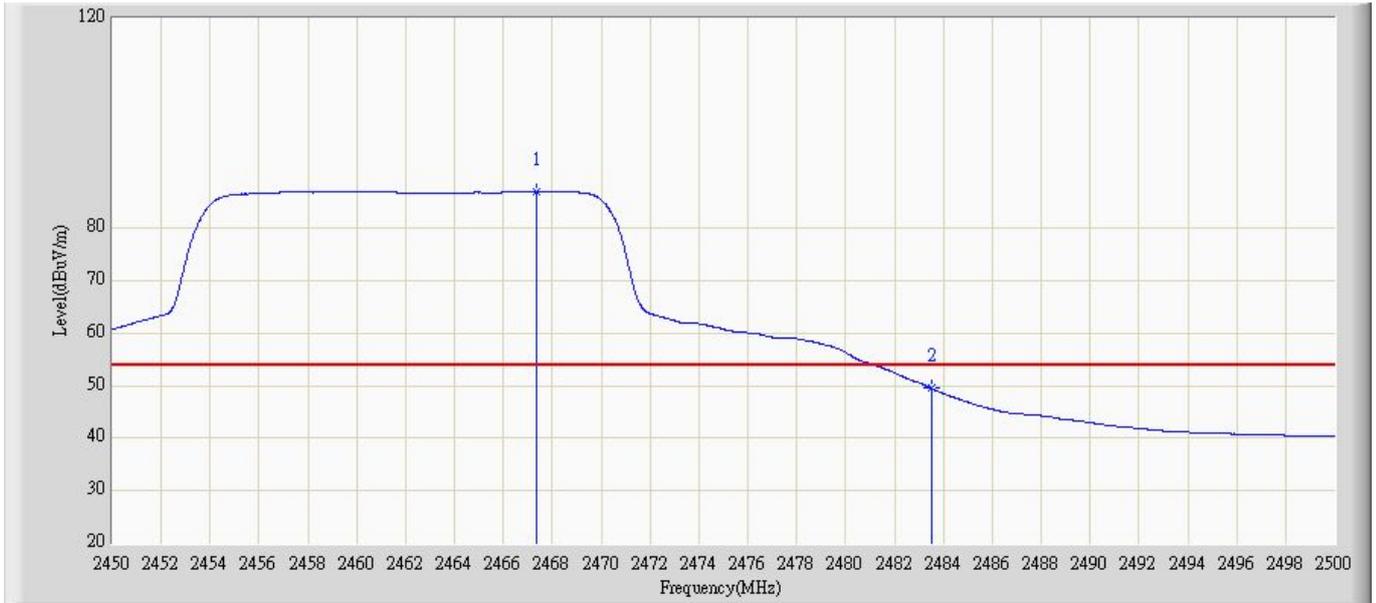
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 43.550 | 15.428 | -10.450 | 54.000 | 28.122 | AV |
| 2 | * | 2418.078 | 83.598 | 55.358 | N/A | N/A | 28.240 | AV |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:37 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Horizontal |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 2: Transmit at Channel 2462MHz by 802.11g | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2468.309 | 97.809 | 69.356 | N/A | N/A | 28.453 | PK |
| 2 | | 2483.500 | 67.286 | 38.772 | -6.714 | 74.000 | 28.514 | PK |

| | |
|--|--------------------------|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/03/26 - 19:40 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D-737(1-18GHz) | Polarity: Horizontal |
| EUT: WCDMA Digital Mobile Phone | Power: By Battery |
| Note: Mode 2: Transmit at Channel 2462MHz by 802.11g | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2467.334 | 86.971 | 58.522 | N/A | N/A | 28.449 | AV |
| 2 | | 2483.500 | 49.497 | 20.983 | -4.503 | 54.000 | 28.514 | AV |