

Report No.: FC2D2703

# **FCC Test Report**

APPLICANT : CT Asia

: Mobile Phone EQUIPMENT

**BRAND NAME** : BLU

MODEL NAME : Tank 4.5

**FCC ID** : YHLBLUTANK45

: FCC 47 CFR FCC Part 15 Subpart B STANDARD

CLASSIFICATION : Certification

The product was received on Dec. 27, 2012 and completely tested on Jan. 18, 2013. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager





SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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**REVISION HISTORY** 

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FC2D2703   | Rev. 01 | Initial issue of report | Jan. 21, 2013 |
|            |         |                         |               |
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**SUMMARY OF TEST RESULT** 

| Report<br>Section | FCC Rule | IC Rule | Description           | Limit   | Result | Remark  |
|-------------------|----------|---------|-----------------------|---|--------|---|
| 3.1               | 15.107   | 7.2.4   | AC Conducted Emission | < 15.107 limits < RSS-Gen table 2 limits                      | PASS   | Under limit<br>6.92 dB at<br>0.380 MHz            |
| 3.2               | 15.109   | 7.2.3.2 | Radiated Emission     | < 15.109 limits or<br>< RSS-Gen table 1 limits<br>(Section 6) | PASS   | Under limit 1.45 dB at 239.520 MHz for Quasi-Peak |

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## 1. General Description

### 1.1. Applicant

**CT Asia** 

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

#### 1.2. Manufacturer

Beijing Tianyu Communication Equipment Co. Ltd.

NO.55 Jiachang 2 road, OPTO-Mechatronics Industrial Park, Tongzhou district, Beijing 101111

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1.3. Feature of Equipment Under Test

| Product Feature                 |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|
| Equipment                       | Mobile Phone                                   |  |  |  |  |  |
| Brand Name                      | BLU  |  |  |  |  |  |
| Model Name                      | Tank 4.5                                       |  |  |  |  |  |
| FCC ID                          | YHLBLUTANK45                                   |  |  |  |  |  |
| EUT supports Radios application | GSM/GPRS/EGPRS/WCDMA/HSPA/WLAN 11bgn/Bluetooth |  |  |  |  |  |
| HW Version                      | DVT  |  |  |  |  |  |
| SW Version                      | BLU-Tank4.5-V01-Generic                        |  |  |  |  |  |
| EUT Stage                       | Identical Prototype                            |  |  |  |  |  |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.4. Product Specification of Equipment Under Test

| Product Spe        | cification subjective to this standard  |
|--------------------|---|
| Tx Frequency       | GSM850: 824.2 MHz ~ 848.8 MHz<br>GSM1900: 1850.2 MHz ~ 1909.8MHz<br>WCDMA Band V: 826.4 MHz ~ 846.6 MHz<br>802.11b/g/n: 2412 MHz ~ 2462 MHz<br>Bluetooth: 2402 MHz ~ 2480 MHz   |
| Rx Frequency Range | GSM850: 869.2 MHz ~ 893.8 MHz<br>GSM1900: 1930.2 MHz ~ 1989.8 MHz<br>WCDMA Band V: 871.4 MHz ~ 891.6 MHz<br>802.11b/g/n: 2412 MHz ~ 2462 MHz<br>Bluetooth: 2402 MHz ~ 2480 MHz<br>GPS: 1.57542 GHz<br>FM: 88 MHz ~ 108 MHz  |
| Antenna Type       | WWAN : Fixed Internal Antenna<br>WLAN : PIFA Antenna<br>Bluetooth : PIFA Antenna  |
| Type of Modulation | GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth BDR (1Mbps): GFSK Bluetooth EDR (2Mbps): π /4-DQPSK Bluetooth EDR (3Mbps): 8-DPSK GPS: BPSK |

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#### 1.5. Test Site

| Test Site          | SPORTON INTERNATIONAL (KUNSHAN) INC. |                       |                         |  |  |  |
|--------------------|--------------------------------------|-----------------------|-------------------------|--|--|--|
|                    | No. 3-2, PingXiang Ro                | oad, Kunshan, Jiangsu | Province, P.R.C.        |  |  |  |
| Test Site Location | TEL: +86-0512-5790-                  | 0158                  |                         |  |  |  |
|                    | FAX: +86-0512-5790-0958              |                       |                         |  |  |  |
| Took Cita No       | Sporton                              | Site No.              | FCC/IC Registration No. |  |  |  |
| Test Site No.      | CO01-KS                              | 03CH01-KS             | 149928/4086E-1          |  |  |  |

### **Applied Standards**

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003
- IC RSS-Gen Issue 3

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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### 2. Test Configuration of Equipment Under Test

#### 2.1. **Test Mode**

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 KHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

|      |   | Те          | st Condition | on           |
|------|---|-------------|--------------|--------------|
| Item | EUT Configuration                               | EMI<br>AC   | EMI<br>RE<1G | EMI<br>RE≥1G |
| 1.   | Charging Mode (EUT with adapter)                |             | KE<16        | Note 1       |
| 2.   | Data application transferred mode (EUT with PC) | $\boxtimes$ | $\boxtimes$  | $\boxtimes$  |

#### Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

**Remark:** For signal above 1GHz, the worst case was test item 2.

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| Test Items                   | EUT<br>Configure<br>Mode | Function Type   |
|------------------------------|--------------------------|---|
|                              |                          | Mode 1: GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1 <fig. 1=""></fig.>      |
| AC Conducted                 | 1/2                      | Mode 2: GSM1900 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 <fig. 1=""></fig.>      |
| Emission                     |                          | Mode 3: WCDMA Band V Idle + WLAN Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + FM Rx + SIM1 <fig. 2=""></fig.> |
|                              |                          | Mode 4: GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + GPS Rx + SIM1 <fig. 3=""></fig.>          |
|                              |                          | Mode 1: GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1 <fig. 1=""></fig.>      |
| Radiated                     | 4/0                      | Mode 2: GSM1900 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 <fig. 1=""></fig.>      |
| Emissions < 1GHz             | 1/2                      | Mode 3: WCDMA Band V Idle + WLAN Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + FM Rx + SIM1 <fig. 2=""></fig.> |
|                              |                          | Mode 4: GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + GPS Rx + SIM1 <fig. 3=""></fig.>          |
| Radiated<br>Emissions ≥ 1GHz | 2                        | Mode 1: GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + GPS Rx + SIM1 <fig. 3=""></fig.>          |

#### Remark:

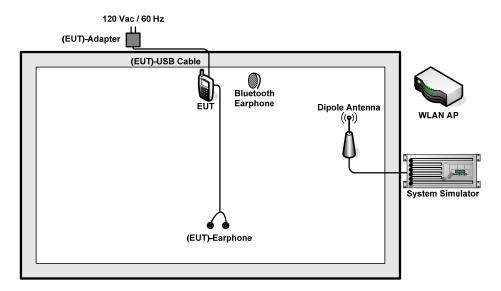
- 1. The worst case of AC Conducted Emission is mode 1; only the test data of this mode was reported.
- 2. The USB Link mode of AC Conducted Emission is mode 4; the test data of this mode was reported.
- 3. The worst case of Radiated Emissions is mode 4; only the test data of this mode was reported.
- 4. Data Link with PC means data application transferred mode between EUT and PC.

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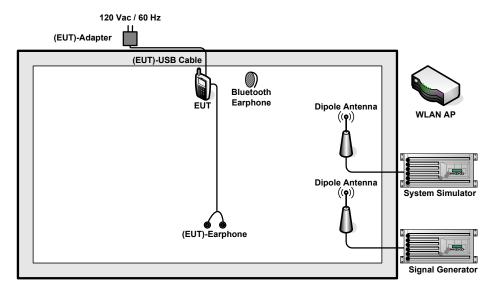


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### 2.2. Connection Diagram of Test System



<Fig. 1>



<Fig. 2>

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Adapter Adapter =120 Vac / 60 Hz 120 Vaç / 60 Hz 120 Vac / 60 Hz Adapter (EUT)-USB Cable Bluetooth EUT Earphone LCD Monitor Printer Dipole Antenna Dipole Antenna ((**p**)) System Simulator iPod (EUT)-Earphone 

<Fig. 3>

### 2.3. Support Unit used in test configuration and system

| Item | Equipment             | Trade Name | Model Name     | FCC ID      | Data Cable                | Power Cord        |
|------|-----------------------|------------|----------------|-------------|---------------------------|-------------------|
| 1.   | System Simulator      | R&S        | CMU 200        | N/A         | N/A                       | Unshielded, 1.8 m |
| 2.   | Signal Generator      | R&S        | SMR40          | N/A         | N/A                       | Unshielded, 1.8 m |
| 3.   | GPS Station           | ADIVIC     | MP9000         | N/A         | N/A                       | Unshielded, 1.8 m |
| 4.   | WLAN AP               | D-link     | DIR-855        | KA2DIR855A2 | N/A                       | Unshielded, 1.8 m |
| 5.   | PC                    | Dell       | MT320          | FCC DoC     | N/A                       | Unshielded, 1.8 m |
| 6.   | PC                    | Dell       | DCSM           | FCC DoC     | N/A                       | Unshielded, 1.8 m |
| 7.   | Monitor               | Dell       | E1910Hc        | FCC DoC     | Shielded, 1.2 m           | Unshielded, 1.8 m |
| 8.   | (USB) Keyboard        | Dell       | SK-8115        | FCC DoC     | Shielded, 1.8 m with core | N/A               |
| 9.   | (USB) Mouse           | Dell       | N231           | FCC DoC     | Shielded, 1.8 m           | N/A               |
| 10.  | (USB) Mouse           | Dell       | MO56UC         | FCC DoC     | Shielded, 1.8 m           | N/A               |
| 11.  | Bluetooth<br>Earphone | Nokia      | BH-106         | QTLBH-106   | N/A                       | N/A               |
| 12.  | Bluetooth<br>Earphone | Nokia      | BH-102         | PYAHS-107W  | N/A                       | N/A               |
| 13.  | Printer               | HP         | Laser Jet 1018 | FCC DoC     | Shielded, 1.8 m           | Unshielded, 1.8 m |
| 14.  | iPod                  | Apple      | A1199          | FCC DoC     | Shielded, 1.2 m           | N/A               |

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#### **Test Software** 2.4.

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Execute the program, "Winthrax" under WIN7 installed in PC for files transfer with EUT via USB cable.
- 2. Execute GPS function to make the EUT receive continuous signals from GPS station.
- 3. Turn on FM function to make the EUT receive continuous signals from signal generator.
- 4. Execute "Windows Media Player" to play MPEG4 files.
- 5. Turn on camera to capture images.

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#### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

#### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission | Conducted  | limit (dBuV) |
|-----------------------|------------|--------------|
| (MHz)                 | Quasi-peak | Average      |
| 0.15-0.5              | 66 to 56*  | 56 to 46*    |
| 0.5-5                 | 56         | 46           |
| 5-30                  | 60         | 50           |

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 KHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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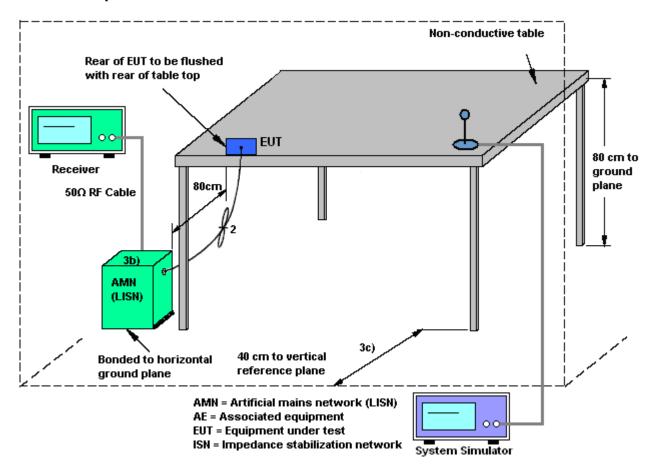
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### 3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

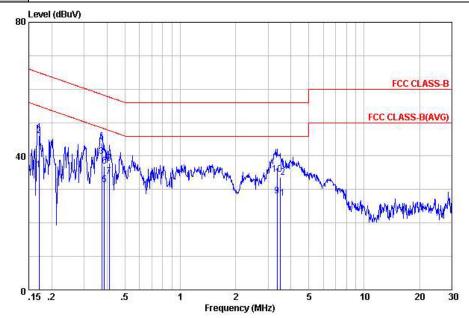
| Test Mode :  | Mode 1  | 1  |   |   | Temp  | erature   | :  | 19~2   | 20°C  |        |          |            |
|--|---|--|---|---|---|---|--|--|---|--------|----------|------------|
| Test Engineer :  |   |  | Relati  | ve Hun  | nidity:   | 39~40%  |  |  |   |        |          |            |
| Test Voltage :   | 120Vac / 60Hz   |  |   | Phase: Line   |   |   |  |  |   |        |          |            |
| Function Tune .  | GSM8  | 50 Idle  | + WLA   | N Idle -  | + Bluetooth Idle + USB Cable (Charging from Ada                             |   |  |  |   |        |          |            |
| Function Type :  | + Earp  | hone +   | Camer   | a + SIN   | <i>I</i> 11   |   |  |  |   |        |          |            |
| Remark :   | All emi   | Ill emissions not reported here are more than 10 dB below the prescribe  |   |   |   |   |  |  |   |        | bed lim  |            |
| 80   | Level (dBu  | IV)  |   |   |   |   |  |  |   |        |          | 7          |
|  |   |  |   |   |   |   |  |  |   |        |          |            |
|  |   |  |   |   |   |   |  |  |   |        |          |            |
|  |   |  |   |   |   |   |  |  |   | FCC CL | ASS-E    | 3          |
|  |   | -  | 500   |   |   |   |  |  | FCC C   | LASS-  | B(AVG    | <u>)</u>   |
|  | Mha   | Ja B   | 0.  |   |   |   | 2  |  |   |        |          |            |
| 40   |   | WV15   | WWW.  | M. Mun  | Market  | . /   | Z. Warner W.   | -Bris  |   |        |          |            |
|  |   |  | 1 1   | W   | THE WAYNER WAYNER   |   |  |  | -   |        |          |            |
|  | 2241  |  |   |   |   |   |  | 100  | ANNOTATION TO THE PROPERTY OF |        |          | 2          |
|  | 15/4  |  |   |   |   |   |  | 47   | WAY   | WAN    | WW       | N          |
|  |   |  |   |   |   |   |  | W/J  | WAYA YAAN   | Wyw)t  | MAN      | h <b>i</b> |
|  |   |  |   |   |   |   |  | W <sup>*</sup> h)                                      | hay in fight  | WAN    | MANAN.   | N .        |
|  |   |  |   |   |   |   |  | \^\)   | They will have  | Wyshir | hylythu. | N .        |
| 0  | 45.2  |  |   |   | 3.  |   |  |  |   |        | MYN      | 30         |
| 0  | .15 .2  |  | .5  | 1   |   | 2<br>ncy (MHz)  | 5  |  | 10  | 2      | o        | 30         |
| <b>O</b><br>Site<br>Condition  | : C001-K  |  |   | 9,33,0  |   |   | 5  |  |   |        | o        | 30         |
| Site   | : COO1-K:   | ASS-B LI   |   | 9,33,0  |   |   | 5  |  |   |        | o o      | 30         |
| Site<br>Condition<br>Project   | : COO1-K3<br>: FCC CL2<br>: (FC) 2I<br>: Mode 1   | ASS-B LI   | SN-11123<br>Over  | 9,33,0  | Freque<br>Read  |   | Cable  |  |   |        | o o      | 30         |
| Site<br>Condition<br>Project   | : COO1-K3<br>: FCC CL2<br>: (FC) 2I<br>: Mode 1   | ASS-B LI<br>D2703  | SN-11123<br>Over  | O LINE<br>Limit   | Freque<br>Read  | n <b>cy (MHz)</b><br>LISN   | Cable  |  |   |        | o o      | 30         |
| Site<br>Condition<br>Project<br>mode<br>——<br>1                              | : C001-K3 :: FCC CLi :: (FC) 2I :: Mode 1  Freq  MHz 0.36   | ASS-B LI<br>D2703<br>Level<br>dBuV<br>43.57<br>39.17   | Over<br>Limit<br>dB<br>-15.08<br>-9.48  | O LINE  Limit Line  dBuV  58.65                                   | Read Level dBuV   | LISN<br>Factor  | Cable<br>Loss  | Remark   | 10  |        | 0        | 30         |
| Site<br>Condition<br>Project<br>mode<br>———————————————————————————————————— | : C001-K:<br>:: FCC CLi<br>:: (FC) 2I<br>:: Mode 1<br>Freq<br>MHz<br>0.36<br>0.36<br>0.36<br>0.38<br>0.38 | ASS-B LI<br>D2703<br>Level<br>dBuV<br>43.57<br>39.17<br>41.47<br>46.27   | Over<br>Limit<br>dB<br>-15.08<br>-9.48<br>-6.92<br>-12.12   | O LINE  Limit Line  dBuV  58.65 48.65 48.39 58.39                 | Read Level dBuV 33.40 29.00 31.30 36.10                                     | LISN<br>Factor<br>dB<br>-0.08<br>-0.08<br>-0.08   | Cable<br>Loss<br>dB<br>10.25<br>10.25<br>10.25<br>10.25                            | Remark<br>QP<br>Average<br>Average<br>QP               | 10  |        | o        | 30         |
| Site Condition Project mode  1 2 3 4 5 6                                     | : C001-K3 :: FCC CLi :: (FC) 21 :: Mode 1  Freq  MHz  0.36 0.36 0.38 0.38 0.39 0.39                       | ASS-B LI<br>D2703<br>Level<br>dBuV<br>43.57<br>39.17<br>41.47<br>46.27<br>34.87<br>41.37                         | Over<br>Limit<br>dB<br>-15.08<br>-9.48<br>-6.92<br>-12.12<br>-23.25<br>-16.75                     | 0 LINE  Limit Line  dBuV  58.65 48.65 48.39 58.39 58.12 58.12     | Read<br>Level<br>dBuV<br>33.40<br>29.00<br>31.30<br>36.10<br>24.70<br>31.20 | LISN<br>Factor<br>dB<br>-0.08<br>-0.08<br>-0.08<br>-0.08<br>-0.08                                     | Cable<br>Loss<br>dB<br>10.25<br>10.25<br>10.25<br>10.25<br>10.25                   | Remark  OP Average Average OP Average OP               | 10  |        | 0        | 30         |
| Site Condition Project mode  1 2 3 4 5 6 7                                   | : C001-K: :: FCC CLi :: (FC) 2I :: Mode 1  Freq  MHz  0.36 0.36 0.38 0.38 0.39 0.39 0.39 3.26 3.26        | ASS-B LI<br>D2703<br>Level<br>dBuV<br>43.57<br>39.17<br>41.47<br>46.27<br>34.87<br>41.37<br>38.50<br>31.70       | Over<br>Limit<br>dB<br>-15.08<br>-9.48<br>-6.92<br>-12.12<br>-23.25<br>-16.75<br>-17.50<br>-14.30 | 0 LIME  Limit Line dBuV 58.65 48.65 48.39 58.12 58.12 58.10 46.00 | Read Level dBuV 33.40 29.00 36.10 24.70 31.20 28.30 21.50                   | LISN<br>Factor<br>dB<br>-0.08<br>-0.08<br>-0.08<br>-0.08<br>-0.08<br>-0.08<br>-0.08<br>-0.12<br>-0.12 | Cable<br>Loss<br>dB<br>10.25<br>10.25<br>10.25<br>10.25<br>10.25<br>10.25<br>10.32 | Remark  OP Average OP Average OP OP Average OP Average | 110<br>===================================  |        | 0        | 30         |
| Site Condition Project mode  1 2 3 4 5 6 7                                   | : C001-K: :: FCC CLi :: (FC) 2I :: Mode 1  Freq  MHz  0.36 0.36 0.38 0.38 0.39 0.39 0.39 3.26             | ASS-B LI<br>D2703<br>Level<br>dBuV<br>43.57<br>41.47<br>46.27<br>34.87<br>41.38<br>50<br>31.70<br>32.60<br>39.40 | Over<br>Limit<br>—15.08<br>—9.48<br>—6.92<br>—12.12<br>—23.25<br>—16.75<br>—17.50                 | Limit Line  dBuV  58.65 48.65 48.69 58.39 58.12 58.12 58.12 56.00 | Read Level dBuV 33.40 29.00 36.10 24.70 31.20 28.30                         | LISN<br>Factor<br>dB<br>-0.08<br>-0.08<br>-0.08<br>-0.08<br>-0.08<br>-0.08<br>-0.08                   | Cable Loss  dB  10.25 10.25 10.25 10.25 10.25 10.25 10.32 10.32 10.32 10.32        | Remark  OP Average Average OP OP OP Average Average    | 10<br>====================================  |        | 0        | 30         |

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### FCC Test Report

| Test Mode :     | Mode 1   | Temperature :          | 19~20℃                         |  |  |  |  |
|-----------------|--|------------------------|--------------------------------|--|--|--|--|
| Test Engineer : | Tom Wang   | Relative Humidity :    | 39~40%                         |  |  |  |  |
| Test Voltage :  | 120Vac / 60Hz  | Phase :                | Neutral                        |  |  |  |  |
| Eurotion Type I | GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Charging from Adapter) |                        |                                |  |  |  |  |
| Function Type : | + Earphone + Camera + SIM1   |                        |                                |  |  |  |  |
| Remark :        | All emissions not reported h   | ere are more than 10 c | IB below the prescribed limit. |  |  |  |  |



: C001-KS

Condition: FCC CLASS-B LISM-111230 NEUTRAL Project : (FC) 2D2703 mode : Mode 1

|                                      | Freq | Level | Over<br>Limit | Limit<br>Line | Read<br>Level | LISN<br>Factor | Cable<br>Loss | Remark  |
|--------------------------------------|------|-------|---------------|---------------|---------------|----------------|---------------|---------|
| -                                    | MHz  | dBu₹  | dB            | dBu₹          | dBuV          | dB             | dB            |         |
| 1                                    | 0.17 | 35.93 | -19.01        | 54.94         | 25.80         | -0.08          | 10.21         | Average |
| 2                                    | 0.17 | 46.13 | -18.81        | 64.94         | 36.00         | -0.08          | 10.21         | QP      |
| 3                                    | 0.37 | 39.97 | -8.46         | 48.43         | 29.80         | -0.08          | 10.25         | Average |
| 4                                    | 0.37 | 43.87 | -14.56        | 58.43         | 33.70         | -0.08          | 10.25         | QP -    |
| 5                                    | 0.39 | 31.47 | -16.65        | 48.12         | 21.30         | -0.08          | 10.25         | Average |
| 6                                    | 0.39 | 36.97 | -21.15        | 58.12         | 26.80         | -0.08          | 10.25         |         |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8 | 0.41 | 33.97 | -13.67        | 47.64         | 23.80         | -0.08          | 10.25         | Average |
| 8                                    | 0.41 | 37.77 | -19.87        | 57.64         | 27.60         | -0.08          | 10.25         |         |
| 9                                    | 3.36 | 28 10 | -17.90        | 46.00         | 17.89         | -0.12          |               |         |
| 10                                   | 3.36 | 34.50 | -21.50        | 56.00         | 24.29         | -0.12          | 10.33         |         |
| 11                                   | 3.51 | 27.30 | -18.70        | 46.00         | 17.09         | -0.12          | 10.33         | Average |
| 12                                   | 3.51 |       | -22.30        | 56.00         | 23.49         | -0.12          | 10.33         |         |

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Test Mode: Mode 4

Temperature: 19~20°C

Test Engineer: Tom Wang

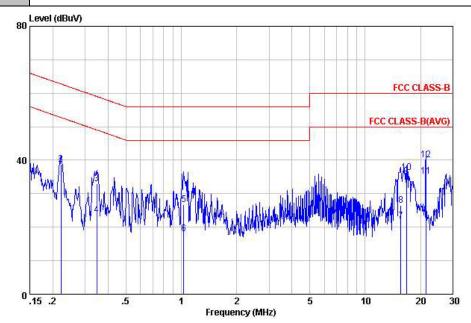
Relative Humidity: 39~40%

Test Voltage: 120Vac / 60Hz

Phase: Line

GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + GPS Rx + SIM1

Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COO1-KS

Condition: FCC CLASS-B LISN-111230 LINE

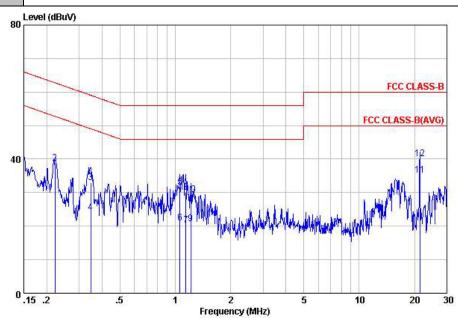
Project : (FC) 2D2703 mode : Mode 4

|   | Freq  | Level  | Over<br>Limit  | Limit<br>Line  | Read<br>Level   | LISN<br>Factor  | Cable<br>Loss  | Remark  |
|---|---|--|--|--|---|---|--|---|
| -   | MHz   | dBuV   | dB   | dBuV   | dBuV  | dB  | dB   | 7   |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12 | 0.22<br>0.35<br>0.35<br>1.03<br>15.63<br>15.63<br>16.75<br>16.75<br>21.37 | 38.75<br>32.87<br>23.67<br>26.78<br>18.08<br>21.77<br>26.57<br>35.23<br>36.43<br>35.30 | -14 .59<br>-23 .99<br>-26 .18<br>-25 .38<br>-29 .22<br>-27 .92<br>-28 .23<br>-33 .43<br>-14 .77<br>-23 .57<br>-14 .70<br>-19 .80 | 52.74<br>62.74<br>59.05<br>49.05<br>56.00<br>46.00<br>50.00<br>60.00<br>50.00<br>60.00 | 28.00<br>28.60<br>22.70<br>13.50<br>16.60<br>7.90<br>11.39<br>16.19<br>24.80<br>26.00<br>24.70<br>29.60 | -0.07<br>-0.08<br>-0.08<br>-0.10<br>-0.10<br>-0.01<br>-0.01<br>0.01<br>0.01<br>0.09 | 10.22<br>10.25<br>10.25<br>10.28<br>10.39<br>10.39<br>10.42<br>10.42 | QP<br>Average<br>QP<br>Average<br>Average<br>QP<br>Average<br>QP<br>Average |

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**19~20**℃ Test Mode: Mode 4 Temperature : 39~40% Test Engineer: Tom Wang Relative Humidity: 120Vac / 60Hz Phase: Test Voltage : Neutral GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Function Type: Earphone + GPS Rx + SIM1 Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COOl-KS

Condition: FCC CLASS-B LISN-111230 NEUTRAL

Project : (FC) 2D2703 mode : Mode 4

|   | Freq   | Level  | Over<br>Limit  | Limit<br>Line  | Read<br>Level   | LISN<br>Factor  | Cable<br>Loss   | Remark        |
|---|--|--|--|--|---|---|---|---------------|
| -   | MHz  | dBu₹   | dB   | dBu∀   | dBu₹  | dB  | dB  |               |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9 | 0.22<br>0.22<br>0.35<br>0.35<br>1.06<br>1.14<br>1.14<br>1.22 | 38.85<br>32.87<br>23.97<br>31.58<br>20.98<br>20.38<br>30.10<br>20.78 | -15.39<br>-23.89<br>-26.18<br>-25.08<br>-24.42<br>-25.02<br>-25.62<br>-25.90<br>-25.22<br>-26.62 | 52.74<br>62.74<br>59.05<br>49.05<br>56.00<br>46.00<br>56.00<br>56.00 | 27.20<br>28.70<br>22.70<br>13.80<br>21.39<br>10.79<br>10.19<br>10.59<br>19.91 | -0.07<br>-0.07<br>-0.08<br>-0.08<br>-0.09<br>-0.09<br>-0.09<br>-0.09<br>-0.09 | 10.22<br>10.25<br>10.25<br>10.25<br>10.28<br>10.28<br>10.28<br>10.28<br>10.28 | QP            |
| 11<br>12                                  | 21.37<br>21.37   |  | -14.70<br>-19.80   | 50.00<br>60.00   | 24.72<br>29.62  | 0.07<br>0.07  | 10.51<br>10.51  | Average<br>QP |

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#### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance (meters) |
|--------------------|--------------------------------------|-------------------------------|
| 30 – 88            | 100                                  | 3                             |
| 88 – 216           | 150                                  | 3                             |
| 216 - 960          | 200                                  | 3                             |
| Above 960          | 500                                  | 3                             |

#### 3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak
  values of EUT will be reported. Otherwise, the emission will be repeated by using the
  quasi-peak method and reported.
- 8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level

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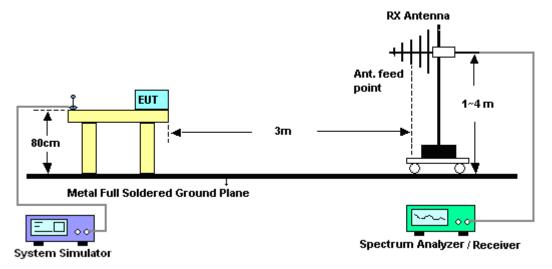
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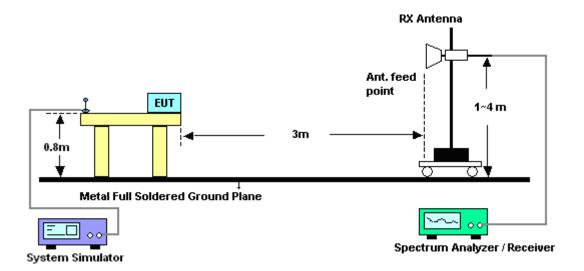
Report No.: FC2D2703

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz



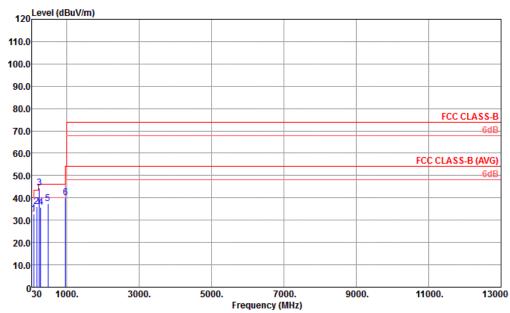
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3.2.5. Test Result of Radiated Emission

| Test Mode :                              | Mode 4   | Temperature :       | 21~22°C    |  |  |  |  |  |
|--|--|---------------------|------------|--|--|--|--|--|
| Test Engineer :                          | Allen Cheng  | Relative Humidity : | 45~46%     |  |  |  |  |  |
| Test Distance :                          | 3m   | Polarization :      | Horizontal |  |  |  |  |  |
| Function Type :                          | GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Data Link with PC) + |                     |            |  |  |  |  |  |
| Function Type : Earphone + GPS Rx + SIM1 |  |                     |            |  |  |  |  |  |
|  |  |                     |            |  |  |  |  |  |



Site : 03CH01-KS

Condition : FCC CLASS-B 3m LF\_ANT\_100803 HORIZONTAL

Project : (FC) 2D2703 Mode : mode 4

| oue |         | oue 4               |        |                     |        |       |      |       |     |     |        |
|-----|---------|---------------------|--------|---------------------|--------|-------|------|-------|-----|-----|--------|
|     | Freq    | Level               |        | Limit<br>Line       |        |       |      |       |     |     | Remark |
|     | MHz     | $\overline{dBuV/m}$ | dB     | $\overline{dBuV/m}$ | dBuV   | dB/m  | dB   | dB    | cm  | deg |        |
| 1   | 90.14   | 32.76               | -10.74 | 43.50               | 56.93  | 8.90  | 0.55 | 33.62 |     |     | Peak   |
| 2   | 165.80  | 35.94               | -7.56  | 43.50               | 59.40  | 9.36  | 0.75 | 33.57 |     |     | Peak   |
| 3!  | 239. 52 | 44.55               | -1.45  | 46.00               | 65.60  | 11.51 | 0.90 | 33.46 | 100 | 172 | QP     |
| 4   | 284. 14 | 35.61               | -10.39 | 46.00               | 55. 29 | 12.74 | 0.97 | 33.39 |     |     |        |
| 5   | 480.08  | 37. 29              | -8.71  | 46.00               | 52.30  | 16.87 | 1.28 |       |     |     | Peak   |
| 6   | 960.23  | 40.27               | -13.73 | 54.00               | 50.15  | 20.79 | 1.77 | 32.44 |     |     | Peak   |
|     |         |                     |        |                     |        |       |      |       |     |     |        |

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Test Mode: Mode 4

Temperature: 21~22°C

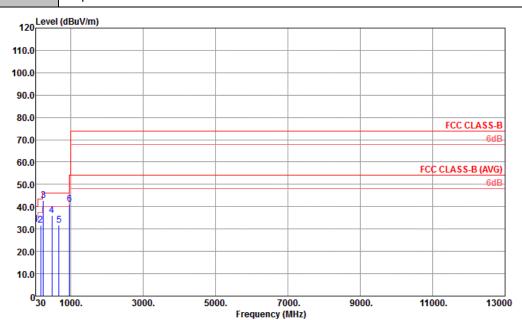
Test Engineer: Allen Cheng

Relative Humidity: 45~46%

Test Distance: 3m

Polarization: Vertical

GSM850 Idle + WLAN Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + GPS Rx + SIM1



Site : 03CH01-KS

Condition : FCC CLASS-B 3m LF\_ANT\_100803 VERTICAL

Project : (FC) 2D2703 Mode : mode 4

|   |   | Freq   | Level               |        | Limit<br>Line       |       |                   |      |       |     |     | Remark |
|---|---|--------|---------------------|--------|---------------------|-------|-------------------|------|-------|-----|-----|--------|
|   |   | MHz    | $\overline{dBuV/m}$ | dB     | $\overline{dBuV/m}$ | dBuV  | $\overline{dB/m}$ | dB   | dB    | cm  | deg |        |
| 1 |   | 35. 82 | 32. 20              | -7.80  | 40.00               | 50.80 | 14.65             | 0.37 | 33.62 |     |     | Peak   |
| 2 |   | 165.80 | 31.86               | -11.64 | 43.50               | 55.32 | 9.36              | 0.75 | 33.57 |     |     | Peak   |
| 3 | 1 | 239.52 | 42.82               | -3.18  | 46.00               | 63.87 | 11.51             | 0.90 | 33.46 | 100 | 192 | Peak   |
| 4 |   | 480.08 | 36. 13              | -9.87  | 46.00               | 51.14 | 16.87             | 1.28 |       |     |     |        |
| 5 |   | 675.05 | 31.63               | -14.37 | 46.00               | 43.97 | 19.10             | 1.48 | 32.92 |     |     | Peak   |
| 6 |   | 060 22 | 41 10               | -19 91 | 54 00               | 51 07 | 20 70             | 1 77 | 22 44 |     |     | Pools  |

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4. List of Measuring Equipment

| Instrument                   | Manufacturer | Model No. | Serial No.        | Characteristics | Calibration<br>Date | Test Date                       | Due Date      | Remark                   |
|------------------------------|--------------|-----------|-------------------|-----------------|---------------------|---------------------------------|---------------|--------------------------|
| EMI Receiver                 | R&S          | ESCI7     | 100768            | 9kHz~7GHz       | Jun. 01, 2012       | Jan. 07, 2013                   | May 31, 2013  | Conduction<br>(CO01-KS)  |
| LISN                         | MessTec      | AN3016    | 60103             | 9kHz~30MHz      | Dec. 29, 2012       | Jan. 07, 2013                   | Dec. 28, 2013 | Conduction<br>(CO01-KS)  |
| LISN                         | MessTec      | AN3016    | 60105             | 9kHz~30MHz      | Dec. 29, 2012       | Jan. 07, 2013                   | Dec. 28, 2013 | Conduction<br>(CO01-KS)  |
| AC Power<br>Source           | Chroma       | 61602     | ABP0000008<br>11  | N/A             | Nov. 15, 2012       | Jan. 07, 2013                   | Nov. 14, 2013 | Conduction<br>(CO01-KS)  |
| System<br>Simulator          | R&S          | CMU200    | 837587/066        | 2G Full-Band    | Dec. 29, 2012       | Jan. 07, 2013                   | Dec. 28, 2013 | Conduction<br>(CO01-KS)  |
| EMI Test<br>Receiver         | R&S          | ESCI      | 100534            | 9kHz~3GHz       | Nov. 08, 2012       | Jan. 18, 2013                   | Nov. 07, 2013 | Radiation<br>(03CH01-KS) |
| Spectrum<br>Analyzer         | R&S          | FSP30     | 100400            | 9kHz~30GHz      | Jun. 01, 2012       | Jan. 18, 2013                   | May 31, 2013  | Radiation<br>(03CH01-KS) |
| Bilog Antenna                | SCHAFFNER    | CBL6112D  | 23182             | 25MHz~2GHz      | Dec. 07, 2012       | Jan. 18, 2013                   | Dec. 06, 2013 | Radiation<br>(03CH01-KS) |
| Double Ridge<br>Horn Antenna | EMCO         | 3117      | 00075959          | 1GHz~18GHz      | Jan. 06, 2013       | Jan. 18, 2013                   | Jan. 05, 2014 | Radiation<br>(03CH01-KS) |
| Amplifier                    | com-power    | PA-103A   | 161069            | 1MHz~1GHz       | Jun. 01, 2012       | Jan. 18, 2013                   | May 31, 2013  | Radiation<br>(03CH01-KS) |
| Amplifier                    | Agilent      | 8449B     | 3008A02370        | 1GHz~26.5GHz    | Dec. 29, 2012       | Jan. 18, 2013                   | Dec. 28, 2013 | Radiation (03CH01-KS)    |
| Signal<br>Generator          | R&S          | SMR40     | 100455            | 10MHz~40GHz     | Dec. 29, 2012       | Jan. 07, 2013~<br>Jan. 18, 2013 | Dec. 28, 2013 | -                        |
| GPS Station                  | ADIVIC       | MP9000    | MP9000-1110<br>46 | N/A             | N/A                 | Jan. 07, 2013~<br>Jan. 18, 2013 | N/A           | -                        |
| System<br>Simulator          | R&S          | CMU200    | 837587/066        | 2G Full-Band    | Dec. 29, 2012       | Jan. 07, 2013~<br>Jan. 18, 2013 | Dec. 28, 2013 | -                        |

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## 5. Uncertainty of Evaluation

#### <u>Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)</u>

| Measuring Uncertainty for a Level of | 2.26 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y))       | 2.20 |

#### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.54 |
|---|------|
| Confidence of 35% (0 = 200(y))                                      |      |

#### **Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)**

| Measuring Uncertainty for a Level of |      |
|--------------------------------------|------|
| Confidence of 95%                    | 4.72 |
| (U = 2Uc(y))                         |      |

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## Appendix A. Photographs of EUT

Please refer to Sporton report number EP2D2703 as below.

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