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No. : HM167701

**Applicant (SUE002):** GSM LLC.

3385 ROY ORR BLVD., GRAND PRAIRIE, TEXAS,

UNITED STATES, 75050.

**Manufacturer:** GSM LLC.

3385 ROY ORR BLVD., GRAND PRAIRIE, TEXAS

UNITED STATES, 75050.

**Description of Sample(s):** Submitted sample(s) said to be

Product: Game Call Remote
Brand Name: Maestro Game Call
Model Number: WRC-Remote
FCC ID: WGD-WRC-REMO

**Date Sample(s) Received:** 2012-06-26

**Date Tested:** 2012-07-12 to 2012-08-10

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in

accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2011 and ANSI C63.4:2009 for FCC Certification.

**Conclusion(s):** The submitted product COMPLIED with the requirements of

Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this

Test Report.

**Remark**(s): ---

Dr. LEE Kam Chuen
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.



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Appendix A

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## 1.0 General Details

#### 1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd. EMC Laboratory 10 Dai Wang Street, Taipo Industrial Estate New Territories, Hong Kong

Telephone: 852 2666 1888 Fax: 852 2664 4353

# 1.2 Applicant Details Applicant

GSM LLC.

3385 ROY ORR BLVD., GRAND PRAIRIE, TEXAS, UNITED STATES, 75050.

#### Manufacturer

GSM LLC.

3385 ROY ORR BLVD., GRAND PRAIRIE, TEXAS, UNITED STATES, 75050.



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# 1.3 Equipment Under Test [EUT] Description of Sample

Submitted sample(s) said to be

Product: Game Call Remote

Manufacturer: GSM LLC.

3385 ROY ORR BLVD., GRAND PRAIRIE, TEXAS, UNITED

STATES, 75050.

Brand Name: Maestro Game Call Model Number: WRC-Remote

Rating: 9Vd.c. ("6F22" size battery x 1)

#### 1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a GSM LLC., Game Call Remote. The EUT is a remote control, which is used to control the Rx to start / pause audio-play function, and also control the sound volume level of the Rx. The 3.5mm port is used for communicating to the receiver to Sync the media file name between the Tx and Rx, The 3.5mm jack cable is provided with the same packet of receiver (and the test is done in the receiver model.).

#### 1.4 Date of Order

2012-06-26

#### 1.5 Submitted Sample(s):

2 Sample(s)

#### 1.6 Test Duration

2012-07-12 to 2012-08-10

#### 1.7 Country of Origin

China



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#### <u>2.0</u> **Technical Details**

#### 2.1 **Investigations Requested**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 2011 and ANSI C63.4:2009 for FCC Certification.

#### **Test Standards and Results Summary Tables**

| EMISSION<br>Results Summary  |                   |                 |          |             |            |     |  |  |  |
|--|-------------------|-----------------|----------|-------------|------------|-----|--|--|--|
| Test Condition   | Test Requirement  | Test Method     | Class /  | ,           | Test Resul | t   |  |  |  |
|  |                   |                 | Severity | Pass        | Failed     | N/A |  |  |  |
| Field Strength of<br>Fundamental Emissions<br>& Spurious Emissions | FCC 47CFR 15.231a | ANSI C63.4:2009 | N/A      | $\boxtimes$ |            |     |  |  |  |
| Radiated Emissions,<br>30MHz to 1GHz                               | FCC 47CFR 15.209  | ANSI C63.4:2009 | N/A      | $\boxtimes$ |            |     |  |  |  |

Note: N/A - Not Applicable



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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions (30 – 1000MHz)

Test Requirement: FCC 47CFR 15.231a Test Method: ANSI C63.4:2009 Test Date: 2012-07-12

Mode of Operation: Tx on mode

#### **Test Method:**

The sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\* Semi-anechoic chamber located on the G/F of "The Hong Kong Standards and Testing Centre Ltd." with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.



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#### **Spectrum Analyzer Setting:**

9KHz – 30MHz (Pk & Av) RBW: 10kHz

VBW: 30kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

30MHz – 1GHz (QP) RBW: 120kHz

VBW: 120kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

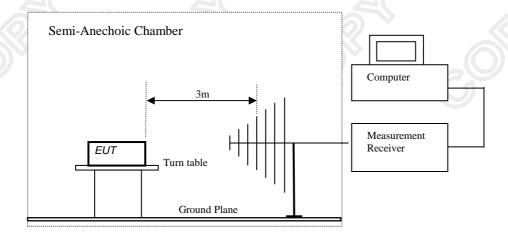
Above 1GHz (Pk & Av) RBW: 3MHz

VBW: 3MHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

#### **Test Setup:**





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#### Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.231a]:

| Frequency Range of | Field Strength of    | Field Strength of |
|--------------------|----------------------|-------------------|
| Fundamental        | Fundamental Emission | Spurious Emission |
|                    | [Average]            | [Average]         |
| [MHz]              | $[\mu V/m]$          | $[\mu V/m]$       |
| 40.66-40.70        | 2,250                | 225               |
| 70-130             | 1,250                | 125               |
| 130-174            | 1,250 to 3,750 *     | 125 to 375 *      |
| 174-260            | 3,750                | 375               |
| 260-470            | 3,750 to 12,500 *    | 375 to 1,250 *    |
| Above 470          | 12,500               | 1,250             |

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz,  $\mu$ V/m at 3 meters=56.81818(F)-6136.3636; for the band 260-470 MHz,  $\mu$ V/m at 3 meters =41.6667(F)-7083.3333. The maximum permissible unwanted emission level is 20dB below the maximum permitted fundamental level.

#### Results of Tx on mode: PASS

| Itcsuits   | Acsults of 1A off mode. 1 A55 |    |          |               |      |                |      |                  |           |            |  |  |
|------------|-------------------------------|----|----------|---------------|------|----------------|------|------------------|-----------|------------|--|--|
|            |                               |    | F        | ield Strength | of I | <b>Fundame</b> | ntal | <b>Emissions</b> |           |            |  |  |
| Peak Value |                               |    |          |               |      |                |      |                  |           |            |  |  |
| Freq       | uency                         | M  | easured  | Correction    |      | Field          |      | Field            | Limit     | E-Field    |  |  |
|            |                               | Le | vel @ 3m | Factor        | S    | trength        |      | Strength         | @ 3m      | Polarity   |  |  |
| N.         | 1Hz                           |    | dΒμV     | dB/m          | d    | BμV/m          |      | $\mu V/m$        | $\mu V/m$ |            |  |  |
|            | 133.2                         |    | 70.7     | 19.0          |      | 89.7           |      | 30,549.2         | 109,666.8 | Vertical   |  |  |
|            | 366.5                         |    | 17.2     | 26.5          |      | 43.7           | V    | 153.1            | 10,966.7  | Vertical   |  |  |
| + 1        | 301.1                         |    | 15.1     | 25.2          |      | 40.3           |      | 103.5            | 5,000.0   | Vertical   |  |  |
| 1          | 732.8                         | <  | 1.0      | 27.8          | <    | 28.8           | <    | 27.5             | 10,966.7  | Horizontal |  |  |
| 2          | 166.0                         | <  | 1.0      | 32.0          | <    | 33.0           | <    | 44.7             | 10,966.7  | Horizontal |  |  |
| 2          | 599.2                         | <  | 1.0      | 33.5          | <    | 34.5           | <    | 53.1             | 10,966.7  | Horizontal |  |  |
| 3          | 032.4                         | <  | 1.0      | 5.8           | <    | 6.8            | <    | 2.2              | 10,966.7  | Horizontal |  |  |
| 3          | 465.6                         | <  | 1.0      | 3.3           | <    | 4.3            | <    | 1.6              | 10,966.7  | Horizontal |  |  |
| + 3        | 898.8                         | <  | 1.0      | 5.4           | <    | 6.4            | <    | 2.1              | 5,000.0   | Horizontal |  |  |
| + 43       | 332.00                        | <  | 1.0      | 6.0           | <    | 7.0            | <    | 2.2              | 5,000.0   | Horizontal |  |  |

#### Remarks:

FCC Limit for Fundamental Average Measurement =  $41.6667(433.2)-7083.3333=10,966.7 \mu V/m$ 

+: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 were not adjusted for averaging and the limits of FCC Rules Part 15 Section 15.209 were applied.

\*: Adjusted by Duty Cycle = -9.2dB

Duty Cycle Correction =-20dB, if the calculation duty cycle correction >-20dB

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

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#### Results of Tx on mode: PASS

|               |           |    | F         | ield Strength | of | Fundame | nta | l Emissions |           |            |  |  |
|---------------|-----------|----|-----------|---------------|----|---------|-----|-------------|-----------|------------|--|--|
| Average Value |           |    |           |               |    |         |     |             |           |            |  |  |
|               | Frequency | M  | leasured  | Correction    |    | Field   |     | Field       | Limit     | E-Field    |  |  |
|               |           | Le | evel @ 3m | Factor        | S  | trength |     | Strength    | @ 3m      | Polarity   |  |  |
|               | MHz       |    | dΒμV      | dB/m          | d  | BμV/m   |     | $\mu V/m$   | $\mu V/m$ |            |  |  |
|               | 433.2     |    | 61.5      | 19.0          |    | 80.5    |     | 10,592.5    | 10,966.7  | Vertical   |  |  |
|               | 866.5     |    | 11.9      | 26.5          |    | 38.4    |     | 83.2        | 1,096.7   | Vertical   |  |  |
| +             | 1301.1    |    | 14.5      | 25.2          |    | 39.7    |     | 96.6        | 500.0     | Vertical   |  |  |
|               | 1732.8    | <  | 1.0       | 27.8          | <  | 28.8    | <   | 27.5        | 1,096.7   | Horizontal |  |  |
|               | 2166.0    | <  | 1.0       | 32.0          | <  | 33.0    | <   | 44.7        | 1,096.7   | Horizontal |  |  |
|               | 2599.2    | <  | 1.0       | 33.5          | <  | 34.5    | <   | 53.1        | 1,096.7   | Horizontal |  |  |
|               | 3032.4    | <  | 1.0       | 5.8           | <  | 6.8     | <   | 2.2         | 1,096.7   | Horizontal |  |  |
|               | 3465.6    | <  | 1.0       | 3.3           | <  | 4.3     | <   | 1.6         | 1,096.7   | Horizontal |  |  |
| +             | 3898.8    | <  | 1.0       | 5.4           | <  | 6.4     | <   | 2.1         | 500.0     | Horizontal |  |  |
| +             | 4332.00   | <  | 1.0       | 6.0           | <  | 7.0     | <   | 2.2         | 500.0     | Horizontal |  |  |

#### Remarks:

FCC Limit for Fundamental Average Measurement =  $41.6667(433.2)-7083.3333=10,966.7 \mu V/m$ 

+: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 were not adjusted for averaging and the limits of FCC Rules Part 15 Section 15.209 were applied.

\*: Adjusted by Duty Cycle = -9.2dB

Duty Cycle Correction =-20dB, if the calculation duty cycle correction >-20dB

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB



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Limits for Radiated Emissions [FCC 47 CFR 15.209]:

| Frequency Range [MHz] | Field strength [microvolts/meter] | Measurement distance [meters] |
|-----------------------|-----------------------------------|-------------------------------|
| 0.009-0.490           | 2400/F(kHz)                       | 300                           |
| 0.490-1.705           | 24000/F(kHz)                      | 30                            |
| 1.705-30              | 30                                | 30                            |
| 30-88                 | 100                               | 3                             |
| 88-216                | 150                               | 3                             |
| 216-960               | 200                               | 3                             |
| Above960              | 500                               | 3                             |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

#### Results of Tx on mode (9k - 30MHz): PASS

| Field Strength of Spurious Emissions |   |        |          |          |  |          |  |  |  |
|--------------------------------------|---|--------|----------|----------|--|----------|--|--|--|
|                                      | Average Value   |        |          |          |  |          |  |  |  |
| Frequency                            | Frequency Measured Correction Field Field Limit E-Field     |        |          |          |  |          |  |  |  |
|                                      | Level   | Factor | Strength | Strength |  | Polarity |  |  |  |
| MHz                                  | MHz $dB\mu V$ $dB/m$ $dB\mu V/m$ $\mu V/m$ $\mu V/m$        |        |          |          |  |          |  |  |  |
| 4                                    | Emissions detected are more than 20 dB below the FCC Limits |        |          |          |  |          |  |  |  |

#### Results of Tx on mode (30MHz - 1000MHz): PASS

|           |          | Field Streng | th of Spuriou | s Emissions    |       |              |
|-----------|----------|--------------|---------------|----------------|-------|--------------|
|           |          | Qu           | asi-Peak Val  | lue            |       |              |
| Frequency | Measured | Correction   | Field         | Field          | Limit | E-Field      |
|           | Level    | Factor       | Strength      | Strength       |       | Polarity     |
| MHz       | dΒμV     | dB/m         | dBμV/m        | μV/m           | μV/m  | 1            |
| WITZ      |          |              |               | dB below the I |       | <del>)</del> |

#### Results of Tx on mode (1000MHz): PASS

|                                      |   | ,      |          |          |  |          |  |  |  |
|--------------------------------------|---|--------|----------|----------|--|----------|--|--|--|
| Field Strength of Spurious Emissions |   |        |          |          |  |          |  |  |  |
|                                      | Peak Value  |        |          |          |  |          |  |  |  |
| Frequency                            | Frequency Measured Correction Field Field Limit E-Field     |        |          |          |  |          |  |  |  |
|                                      | Level   | Factor | Strength | Strength |  | Polarity |  |  |  |
| MHz                                  | MHz $dB\mu V$ $dB/m$ $dB\mu V/m$ $\mu V/m$ $\mu V/m$        |        |          |          |  |          |  |  |  |
|                                      | Emissions detected are more than 20 dB below the FCC Limits |        |          |          |  |          |  |  |  |

#### Results of Tx on mode (Above 1000MHz): PASS

|           | Field Strength of Spurious Emissions                        |        |          |          |  |          |  |  |  |
|-----------|---|--------|----------|----------|--|----------|--|--|--|
|           | Average Value   |        |          |          |  |          |  |  |  |
| Frequency | Frequency Measured Correction Field Field Limit E-Field     |        |          |          |  |          |  |  |  |
|           | Level   | Factor | Strength | Strength |  | Polarity |  |  |  |
| MHz       | MHz $dB\mu V$ $dB/m$ $dB\mu V/m$ $\mu V/m$ $\mu V/m$        |        |          |          |  |          |  |  |  |
|           | Emissions detected are more than 20 dB below the FCC Limits |        |          |          |  |          |  |  |  |

## Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

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#### 3.2 20dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.231a

Test Method: ANSI C63.4:2009 (Section 13.1.7)

Test Date: 2012-08-10 Mode of Operation: Tx on mode

#### **Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.



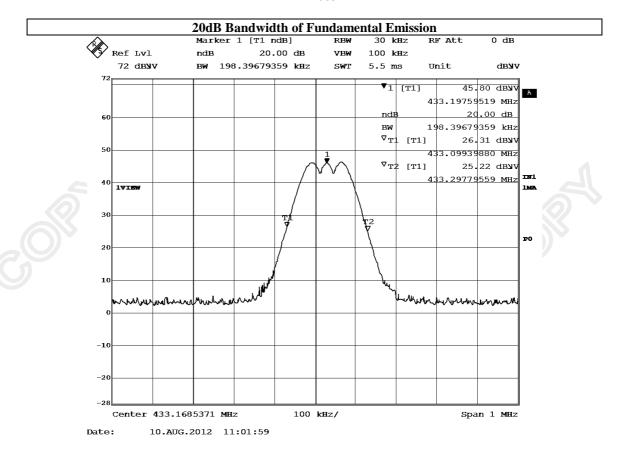
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#### Limits for 20 dB Bandwidth of Fundamental Emission:

| Frequency Range | 20dB Bandwidth | FCC Limits * |
|-----------------|----------------|--------------|
| [MHz]           | [kHz]          | [kHz]        |
| 433.2           | 198.4          | 1083         |

FCC Limit for Bandwidth measurement = (0.25%)(Center Frequency) =(0.0025)(433.2)= 1083kHz





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### **List of Measurement Equipment**

#### **Radiated Emission**

| EQP NO. | DESCRIPTION                             | MANUFACTURER | MODEL NO.           | SERIAL NO.     | LAST<br>CAL | DUE CAL    |  |  |
|---------|---|--------------|---------------------|----------------|-------------|------------|--|--|
| EM276   | Broadband Horn Antenna                  | A-INFOMW     | JXTXLB-<br>10180-SF | J2031090903007 | 2010/08/21  | 2013/08/21 |  |  |
| EM215   | MULTIDEVICE CONTROLLER                  | EMCO         | 2090                | 00024676       | N/A         | N/A        |  |  |
| EM216   | MINI MAST SYSTEM                        | EMCO         | 2075                | 00026842       | N/A         | N/A        |  |  |
| EM217   | ELECTRIC POWERED<br>TURNTABLE           | EMCO         | 2088                | 00029144       | N/A         | N/A        |  |  |
| EM218   | ANECHOIC CHAMBER                        | ETS-Linggren | FACT-3              |                | 2011/10/25  | 2012/10/25 |  |  |
| EM194   | BICONILOG ANTENNA                       | EMCO         | 3142B               | 1795           | 2010/10/06  | 2012/10/06 |  |  |
| EM229   | EMI Test Receiver                       | R&S          | ESIB40              | 100248         | 2012/05/03  | 2013/05/03 |  |  |
| EM022   | LOOP ANTENNA                            | EMCO         | 6502                | 1189-2424      | 2010/09/07  | 2012/09/07 |  |  |
| EM299   | Double-Ridged Waveguide Horn<br>Antenna | ETS-Lindgren | 3115                | 00114120       | 2012/01/25  | 2014/01/25 |  |  |

#### Remarks:-

Corrective Maintenance CM

N/ANot Applicable or Not Available

TBD To Be Determined



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#### Appendix B

#### Duty Cycle Correction During 100msec [FCC 47CFR 15.231(a)]

The transmitter periodically sends a different series of characters, but each packet period (100msec) never exceeds a series of 1 pulse (5.01msec), 1 pulse (2.485msec), 1 pulse (1.246msec), 9 pulses (0.802msec) and 42 pulse (0.447msec). Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered (42x0.447)+(9x0.802)+(1x1.246)+(1x2.485)+(1x5.01) per 100msec=34.73% duty cycle. Figure A through E shows the characteristics of the pulses train for one of these functions.

#### Remarks:

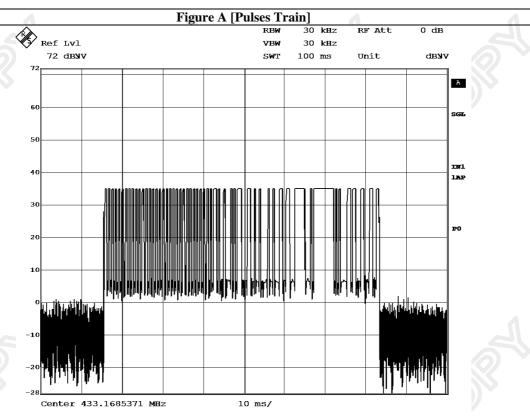
Duty Cycle Correction = 20log (0.3473)=-9.2dB Duty Cycle Correction =-20dB, if the calculation duty cycle correction >-20dB

The following figures [Figure A to Figure F] showed the characteristics of the pulse train for one of these functions.



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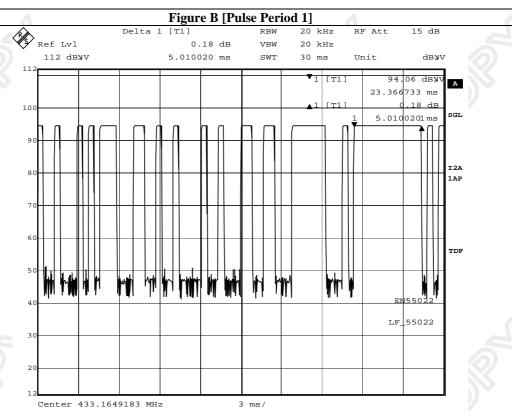


10.AUG.2012 10:54:45 Date:



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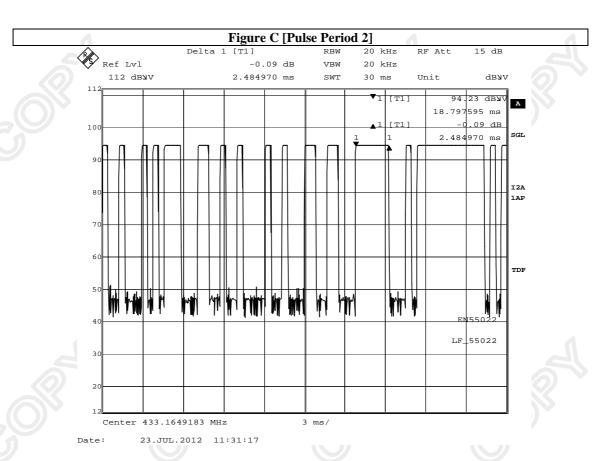


23.JUL.2012 11:30:41 Date:



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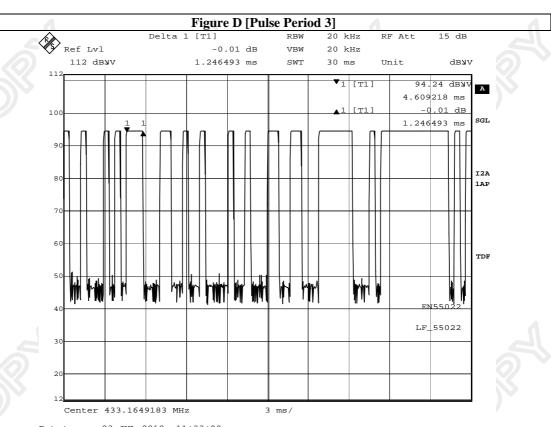
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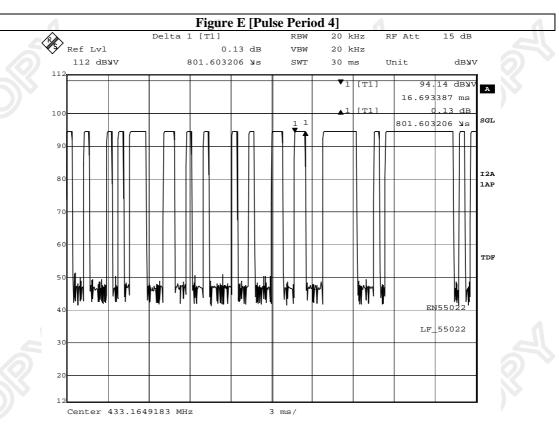


23.JUL.2012 11:33:00



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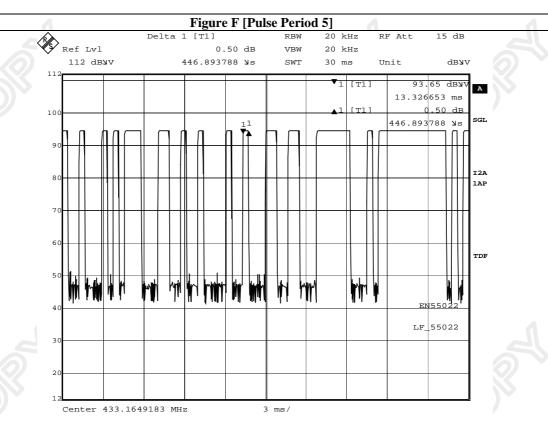


23.JUL.2012 11:31:51 Date:



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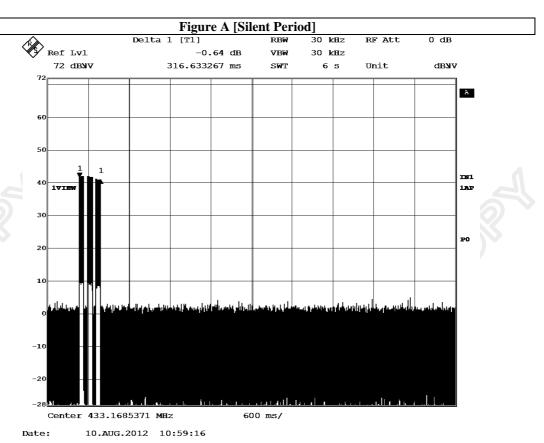
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#### Appendix C

#### Manual Operation [FCC 47CFR 15.231(a)]

The EUT ceases transmission almost immediately upon being released and appears to finish the current packet being transmitted. Therefore the longest period of time the transmitter should take to deactivate is a packet length.

Figure A



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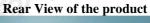
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Appendix D

Photographs of EUT

Front View of the product







**Inner Circuit Top View** 



**Inner Circuit Bottom View** 



The Hong Kong Standards and Testing Centre Ltd.

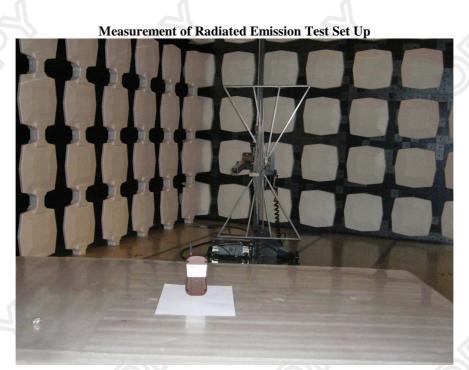
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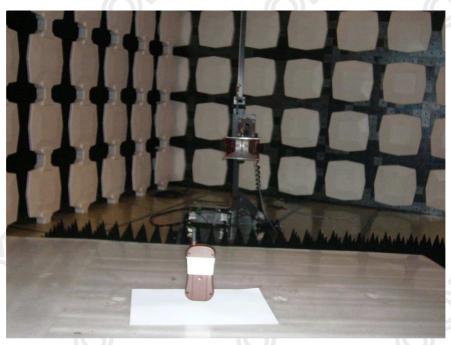


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#### Photographs of EUT





\*\*\*\*\* End of Test Report \*\*\*\*\*

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