# *FCC TEST REPORT*

**FCC ID** : Y3VT-00

**Applicant** : **Legend Lifestyle Products Corp.**
**Address** : 8th Fl., No298, Rueiguang Rd., Neihu, Taipei, Taiwan

**Equipment Under Test (EUT) :**

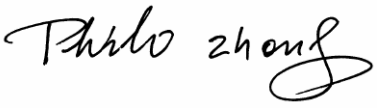
Product description : Torque tool

Model No. : T-00

**Standards** : FCC Part 15 Subpart C, Section15.249

**Date of Test** : Feb.18, 2011

**Test Engineer** **: Olic huang/ Engineer** 

**Reviewed By** **: Philo Zhong/Manager** 

| **Test Result :** | **PASS *** |
|---|---|

**Prepared By:**
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# 2 Contents

# 3 Test Summary

| Test | Test Requirement | Test Method | Class / Severity | Result |
|---|---|---|---|---|
| Radiated Emission (30MHz to 25GHz) | FCC 15.249<br>FCC 15.209 | ANSI C63.4: 2003 | N/A | PASS |
| Conducted Emission (150KHz to 30MHz) | FCC 15.249<br>FCC 15.207 | ANSI C63.4: 2003 | Class B | N/A |
| Periodic Operation | FCC 15.249 | ANSI C63.4: 2003 | N/A | Comply |
| 20dB-Bandwidth | FCC 15.249 | ANSI C63.4: 2003 | N/A | Comply |

# 4 General Information

## 4.1 Client Information

| | |
|---|---|
| Applicant: | **Legend Lifestyle Products Corp.** |
| Address of Applicant: | 8th Fl., No298, Rueiguang Rd., Neihu, Taipei, Taiwan |
| Manufacturer: | **Zhuhai Cybertech Ventures Inc.** |
| Address of Manufacturer: | #6, Jing Heng 2th, RD Taiwan Industrial Yard,Tangjia Town, Zhuhai, Guangdong, China |

## 4.2 General Description of E.U.T.

| | |
|---|---|
| Product description: | Torque tool |
| Model No.: | T-00 |

## 4.3 Details of E.U.T.

| | |
|---|---|
| Power Supply: | DC 1.5V*4,AAA |
| Working Frequency: | 2440MHz |

## 4.4 Description of Support Units

The EUT has been tested as an independent unit.

## 4.5 Standards Applicable for Testing

The customer requested FCC tests for a Torque tool. The standards used were FCC Part 15 Subpart C, FCC Part 15 Subpart C, Section15.209, FCC Part 15 Subpart C,Section15.207, FCC Part 15 Subpart C,Section15.203.

## 4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **IC – Registration No.: 7760A**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration7760A, Aug. 03, 2010

- **FCC – Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, June 24, 2008.

## 4.7 Test Location

The Emission test was performed at:-

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd.,Songgang Street, Baoan District, Shenzhen, China.

# 5 Equipment Used during Test

| Equipment Name | Manufacturer Model | Equipment No | Internal No | Specification | Cal. Date | Due Date | Cert. No | Uncertainty |
|---|---|---|---|---|---|---|---|---|
| EMC Analyzer | Agilent/ E7405A | MY45114943 | W2008001 | 9k-26.5GHz | Aug-03-10 | Aug-02-11 | Wws20081596 | ±1dB |
| Trilog Broadband Antenne | SCHWARZBECK MESS-ELEKTROM/ VULB9163 | 336 | W2008002 | 30-3000 MHz | Aug-03-10 | Aug-02-11 | | ±1dB |
| Broad-band Horn Antenna | SCHWARZBECK MESS-ELEKTROM/ BBHA 9120D(1201) | 667 | W2008003 | 1-18GHz | Aug-03-10 | Aug-02-11 | | f＜10 GHz：±1dB 10GHz＜f＜18 GHz：±1.5dB |
| Broadband Preamplifier | SCHWARZBECK MESS-ELEKTROM/ BBV 9718 | 9718-148 | W2008004 | 0.5-18GHz | Aug-03-10 | Aug-02-11 | | ±1.2dB |
| 10m Coaxial Cable with N-male Connectors | SCHWARZBECK MESS-ELEKTROM/ AK 9515 H | - | - | - | Aug-03-10 | Aug-02-11 | | - |
| 10m 50 Ohm Coaxial Cable with N-plug,individual length,usable up to 3(5)GHz, Connector | SCHWARZBECK MESS-ELEKTROM/ AK 9513 | | | | Aug-03-10 | Aug-02-11 | | |
| Positioning Controller | C&C LAB/ CC-C-IF | | | | N/A | N/A | | |
| Color Monitor | SUNSPO/ SP-14C | | | | N/A | N/A | | |
| Test Receiver | ROHDE&SCHWARZ/ ESPI | 101155 | W2005001 | 9k-3GHz | Aug-03-10 | Aug-02-11 | Wws20080942 | ±1dB |
| EMI Receiver | Beijingkehuan | KH3931 | | 9k-1GHz | Aug-03-10 | Aug-02-11 | | |
| Two-Line V-Network | ROHDE&SCHWARZ/ ENV216 | 100115 | W2005002 | 50Ω/50μH | Aug-03-10 | Aug-02-11 | Wws20080941 | ±10% |
| Absorbing Clamp | ROHDE&SCHWARZ/ MDS-21 | 100205 | W2005003 | impandance50Ω loss ： 17 dB | Aug-03-10 | Aug-02-11 | Wws20080943 | ±1dB |
| 10m 50 | SCHWARZB | | | | Aug-03 | Aug-02 | | |

| Equipment Name | Manufacturer Model | Equipment No | Internal No | Specification | Cal. Date | Due Date | Cert. No | Uncertainty |
|---|---|---|---|---|---|---|---|---|
| Ohm Coaxial Cable with N-plug,individual length,usable up to 3(5)GHz, Connectors | ECK MESS-ELEKTROM/ AK 9514 | | | | -10 | -11 | | |
| Digital Power Analyzer | Em Test AG/Switzerland/ DPA 500 | V07451 03095 | W2008012 | Power：2000VA Vol-range：0-300V Freq_range：10-80Hz | Aug-03-10 | Aug-02-11 | Wwd20081185 | Voltage distinguish:0.025% Power_freq distinguish:0.02Hz |
| Power Source | Em Test AG/Switzerland/ ACS 500 | V07451 03096 | W2008013 | Vol-range：0-300V Power_freq：10-80Hz | | | | |
| Electrostatic Discharge Simulator | Em Test AG/Switzerland/DITO | V07451 03094 | W2008005 | Contact discharge：500V-10KV Air diacharge：500V-16.5KV | Aug-03-10 | Aug-02-11 | Wwc20082400 | 7.5A current will be changed in $V_m$=1.5V |
| RF Generator | TESEQ GmbH/ NSG4070 | 25781 | W2008008 | Fraq-range：9K-1GHz RF voltage：-60 dBm-+10dBm | Aug-03-10 | Aug-02-11 | Wws20081890 | Power_freq distinguish0.1Hz RFeletricity distinguish 0.1 B |
| CDN M-Type | TESEQ GmbH/ CDN M016 | 25112 | W2008009 | Voltage correct factor 9.5 dB | Aug-03-10 | Aug-02-11 | Wwc20082396 | 150K-80MHz：±1dB 80-230MHz:-2-+3dB |
| EM-Clamp | TESEQ GmbH/ KEMZ 801 | 25453 | W2008010 | Freq_range：0.15-1000 MHz | Aug-03-10 | Aug-02-11 | Wwc20082397 | 0.3-400 MHz：±4dB Other freq：±5dB |
| Attenuator 6dB | TESEQ GmbH/ ATN6050 | 25365 | | | Aug-03-10 | Aug-02-11 | Wws20081597 | |
| All Modules Generator | SCHAFFNER/6150 | 34579 | W2008006 | voltage:200V-4.4KV Pulse current：100A-2.2KA | Aug-03-10 | Aug-02-11 | Wwc20082401 | voltage: ±10% Pulse current：±10% |
| Capacitive Coupling Clamp | SCHAFFNER/ CDN 8014 | 25311 | | | Aug-03-10 | Aug-02-11 | Wwc20082398 | - |
| Signal and Data Line Coupling Network | SCHAFFNER/ CDN 117 | 25627 | W2008011 | 1.2/50μS | Aug-03-10 | Aug-02-11 | Wwc20082399 | - |

# 6 Conducted Emission Test

| | |
|---|---|
| Product Name: | Torque tool |
| Test Requirement: | FCC 15.249 and FCC 15.207 |
| Test Method: | Based on ANSI C63.4: 2003 |
| Test Date: | N/A |
| Frequency Range: | 150 kHz to 30MHz |
| Class: | Class B |
| Detector: | Peak for pre-scan (9 kHz Resolution Bandwidth)<br>Quasi-Peak & Average if maximised peak within 6dB of Average Limit |

## 6.1 Test Equipment

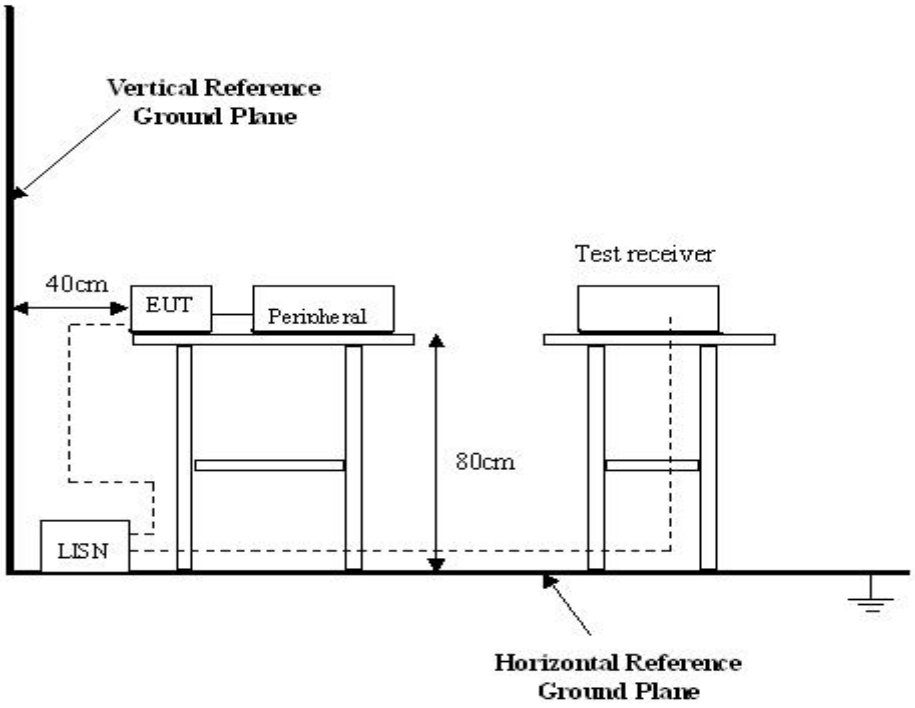
Please refer to Section 5 this report.

## 6.2 Test Procedure

1. The EUT was tested according to ANSI C63.4: 2003. The frequency spectrum from 150kHz to 30MHz was investigated.
2. The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

## 6.3 Conducted Test Setup

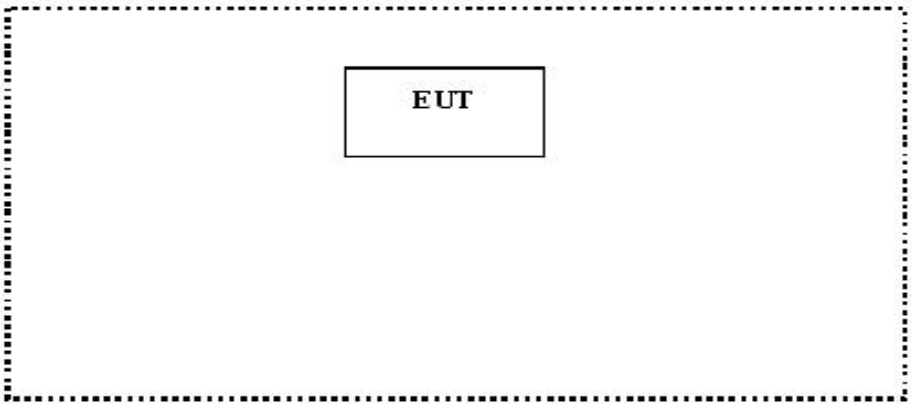
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC 15.249 limits.




## 6.4 EUT Operating Condition

Operating condition is according to ANSI C63.4: 2003.

A. Setup the EUT and simulators as shown on follow.
B. Enable RF signal and confirm EUT active.
C. Modulate output capacity of EUT up to specification.



## 6.5 Conducted Emission Limits

66-56 dBμV between 0.15MHz & 0.5MHz
56 dBμV between 0.5MHz & 5MHz
60 dBμV between 5MHz & 30MHz

**Note**: In the above limits, the tighter limit applies at the band edges.

## 6.6 Conducted Emission Test Result

**Note:** This equipment operates from 6.0VDC vehicle battery power, so this test is not performed.

# 7 Radiation Emission Test

| | |
|---|---|
| Product Name: | Torque tool |
| Test Requirement: | FCC 15.249 and FCC 15.209 |
| Test Method: | Based on ANSI C63.4: 2003 |
| Test Date: | Feb.18, 2011 |
| Frequency Range: | 30MHz to 25GHz |
| Measurement Distance: | 3m |
| Detector: | Peak for pre-scan (120kHz resolution bandwidth) |
| | Quasi-Peak if maximised peak within 6dB of limit |

## 7.1 Test Equipment

Please refer to Section 5 this report.

## 7.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase centre variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

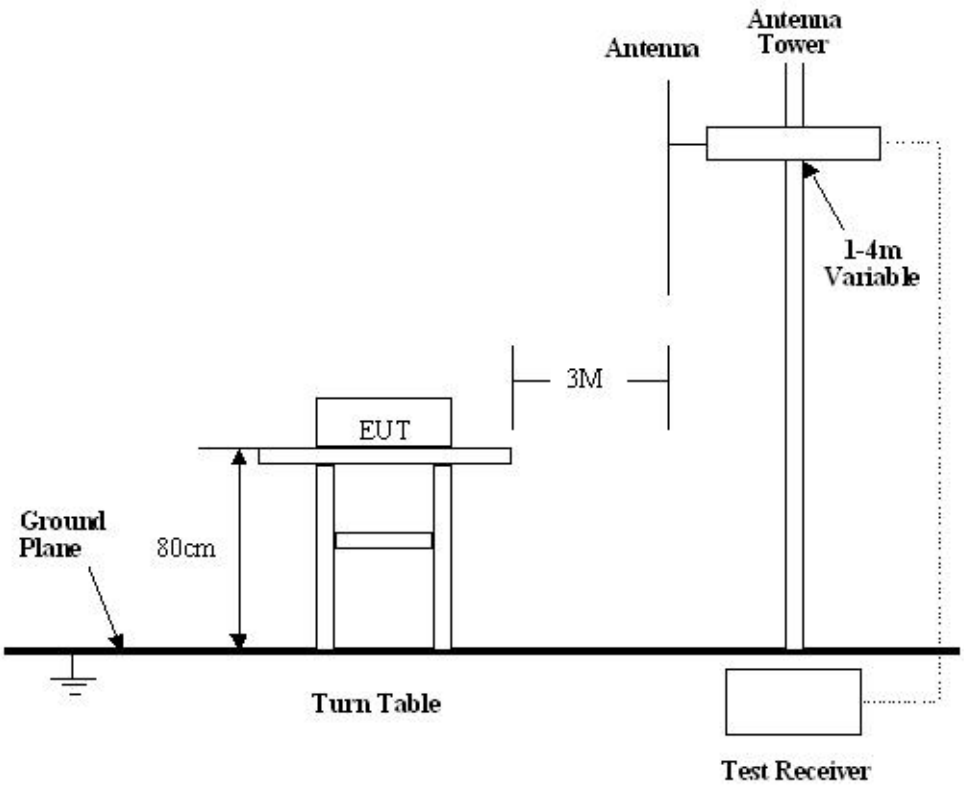
Based on ANSI C63.4: 2003, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at waltek EMC Lab is +/-5.03 dB.

## 7.3 Test Procedure

1. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.
2. All data was recorded in the peak & average detection mode.
3. The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.
4. This is a handhold device, The radiation emission should be tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),After pre-tested, It was found that the worse radiation emission was got at the X position. So the data shown was the X position only.

## 7.4 Radiated Test Setup

The radiated emission tests were performed in the 3m Semi-Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003, The specification used in this report was the FCC 15.249 and FCC 15.209 limits.




## 7.5 Spectrum Analyzer Setup

According to FCC 15.249 Rules, the system was tested to 25000 MHz.

Below 1GHz

Start Frequency..... 30 MHz
Stop Frequency..... 1000 MHz
Sweep Speed Auto
IF Bandwidth..... 120 KHz
Video Bandwidth..... 100KHz
Quasi-Peak Adapter Bandwidth ..... 120 KHz
Quasi-Peak Adapter Mode ..... Normal
Resolution Bandwidth ..... 100KHz

Above 1GHz

Start Frequency..... 1000 MHz
Stop Frequency..... 25000 MHz
Sweep Speed Auto
IF Bandwidth..... 1 MHz
Video Bandwidth..... 1 MHz
Resolution Bandwidth ..... 1MHz

## 7.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dBμV means the emission is 7dBμV below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – Class B Limit

## 7.7 Summary of Test Results

According to the data in section 7.10, the EUT complied with the FCC 15.249 standards.

## 7.8 EUT Operating Condition

Same as section 6.4 of this report.

## 7.9 Radiated Emissions Limit

### A. FCC 15.249 for RF Limit

| Fundamental Frequency | Field Strength of Fundamental | | Field Strength of Harmonics | |
|---|---|---|---|---|
| | mV/m | dBuV/m | uV/m | dBuV/m |
| 902-928MHz | 50 | 94 | 500 | 54 |
| 2400-2483.5 MHz | 50 | 94 | 500 | 54 |
| 5725-5875 MHz | 50 | 94 | 500 | 54 |
| 24.0-24.25GHz | 250 | 108 | 2500 | 68 |

**Note**: (1) RF Voltage(dBuV)=20 log RF Voltage(uV)

(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.

(3)The emission limit in this paragraph is based on measurement instrumentaion employing an average detector.Measurement using instrumentation with a peak detector function,corresponding to 20dB above the maximum permitted average limit.

(4) Above 1GHz,do a Peak and average measurements for all emissions,Limit for peak is 94dBuV/m,According to Part15.35(b) and average is 54BuV/m.

### B. Frequencies in restricted band are complied to limit on FCC 15.249 and FCC 15.209.

| Frequency(MHZ) | Distance(m) | Field strength(dBuV/m) |
|---|---|---|
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

**Note**: (1) RF Voltage(dBuV)=20 log RF Voltage(uV)

(2) In the Above Table,the tighter limit applies at the band edges.

(3) Distance refers to the distance in meters between the measuring instrument antenna.

## 7.10 Radiated Emissions Test Result

Formula of conversion factors: the field strength at 3m was established by adding
The meter reading of the spectrum analyzer (which is set to read in units of dBuV)
To the antenna correction factor supplied by the antenna manufacturer. The antenna
Correction factors are stared in terms of dB. The gain of the pressletor was accounted
For in the spectrum analyser meter reading.

Example:

| Freq(MHz) | Meter Reading +ACF=FS |
|---|---|
| 33 | 20dBuV+10.36dB=30.36dBuV/m @3m |

**Radiated Emission Test Data**

| | |
|---|---|
| Test Voltage: | DC 6.0V |
| Test Mode: | TX On |
| Temperature: | 25.5 °C |
| Humidity: | 51%RH |
| Test Result: | PASS |

Remarks: 30-1000MHz radiation test no significant emissions above the equipment noise floor were detected.

## 1GHz-25GHz Radiated Emission Data

| Frequency (MHz) | Detector | Antenna Polarization | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Turntable Angle (° ) |
|---|---|---|---|---|---|---|---|
| **2440.00** | **AV** | **Vertical** | **80.82** | **94.00** | **13.18** | **1.0** | **90** |
| **2440.00** | **AV** | **Horizontal** | **75.25** | **94.00** | **18.75** | **1.1** | **120** |
| 4880.00 | AV | Vertical | 43.49 | 54.00 | 10.51 | 1.2 | 45 |
| 7320.00 | AV | Vertical | 42.58 | 54.00 | 11.42 | 1.1 | 90 |
| 9760.00 | AV | Vertical | 41.21 | 54.00 | 12.79 | 1.0 | 90 |
| 12200.00 | AV | Vertical | 40.92 | 54.00 | 13.08 | 1.1 | 120 |
| 14640.00 | AV | Vertical | 39.91 | 54.00 | 14.09 | 1.0 | 45 |
| 17080.00 | AV | Vertical | 39.85 | 54.00 | 14.15 | 1.1 | 120 |
| 19520.00 | AV | Vertical | 37.59 | 54.00 | 16.41 | 1.4 | 180 |
| 21960.00 | AV | Vertical | 38.57 | 54.00 | 15.43 | 1.1 | 90 |
| 24400.00 | AV | Vertical | 38.54 | 54.00 | 15.46 | 1.2 | 60 |
| 4880.00 | AV | Horizontal | 35.85 | 54.00 | 18.15 | 1.1 | 180 |
| 7320.00 | AV | Horizontal | 36.44 | 54.00 | 17.56 | 1.2 | 45 |
| 9760.00 | AV | Horizontal | 36.55 | 54.00 | 17.45 | 1.5 | 45 |
| 12200.00 | AV | Horizontal | 34.59 | 54.00 | 19.41 | 1.0 | 180 |
| 14640.00 | AV | Horizontal | 33.59 | 54.00 | 20.41 | 1.1 | 45 |
| 17080.00 | AV | Horizontal | 34.55 | 54.00 | 19.45 | 1.1 | 60 |
| 19520.00 | AV | Horizontal | 33.26 | 54.00 | 20.74 | 1.1 | 120 |
| 21960.00 | AV | Horizontal | 32.44 | 54.00 | 21.56 | 1.2 | 90 |
| 24400.00 | AV | Horizontal | 31.19 | 54.00 | 22.81 | 1.1 | 90 |
| **2440.00** | **PK** | **Vertical** | **104.52** | **114.00** | **25.41** | **1.0** | **20** |
| **2440.00** | **PK** | **Horizontal** | **98.56** | **114.00** | **30.98** | **1.1** | **30** |
| 4880.00 | PK | Vertical | 51.26 | 74.00 | 22.74 | 1.0 | 120 |
| 7320.00 | PK | Vertical | 50.35 | 74.00 | 23.65 | 1.1 | 120 |
| 9760.00 | PK | Vertical | 48.98 | 74.00 | 25.02 | 1.0 | 90 |
| 12200.00 | PK | Vertical | 48.69 | 74.00 | 25.31 | 1.0 | 90 |
| 14640.00 | PK | Vertical | 47.68 | 74.00 | 26.32 | 1.0 | 45 |
| 17080.00 | PK | Vertical | 47.62 | 74.00 | 26.38 | 1.2 | 60 |
| 19520.00 | PK | Vertical | 45.36 | 74.00 | 28.64 | 1.1 | 60 |
| 21960.00 | PK | Vertical | 46.34 | 74.00 | 27.66 | 1.1 | 100 |
| 24400.00 | PK | Vertical | 46.31 | 74.00 | 27.69 | 1.2 | 120 |
| 4880.00 | PK | Horizontal | 43.62 | 74.00 | 30.38 | 1.1 | 45 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7320.00 | PK | Horizontal | 44.21 | 74.00 | **29.79** | 1.1 | 90 |
| 9760.00 | PK | Horizontal | 44.32 | 74.00 | **29.68** | 1.1 | 180 |
| 12200.00 | PK | Horizontal | 42.36 | 74.00 | **31.64** | 1.2 | 120 |
| 14640.00 | PK | Horizontal | 41.36 | 74.00 | **32.64** | 1.1 | 45 |
| 17080.00 | PK | Horizontal | 42.32 | 74.00 | **31.68** | 1.2 | 180 |
| 19520.00 | PK | Horizontal | 41.03 | 74.00 | **32.97** | 1.1 | 120 |
| 21960.00 | PK | Horizontal | 40.21 | 74.00 | **33.79** | 1.0 | 90 |
| 24400.00 | PK | Horizontal | 38.96 | 74.00 | **35.04** | 1.1 | 90 |

**Note1**: Above 1GHz,do a Peak and average measurements for all emissions,Limit for peak is 94dBuV/m,According to the paragraph in IC RSS-210,RSS-Gen 7.2.1 and average is 54BuV/m.

**Note2:** AV = Peak+20Log10(duty cycle) = Peak – 7.65

So the Radiated Emission Test Data as the table follow.For more details of the calculation , please refer the section 8 of the Periodic operation .And The maximum permitted unwanted emission level is 50 dB below the maximum permitted fundamental level.

The formula of calculate AV = Peak +$20Log_{10}$(duty cycle)

# 8 Periodic Operation

The duty cycle was determined by the following equation:
To calculate the actual field intensity, The duty cycle correction factor in decibel is needed for later use and can be obtained from following conversion

**Duty Cycle(%)=**
**Total On interval in a complete pulse train/ Length of a complete pulse train * %**

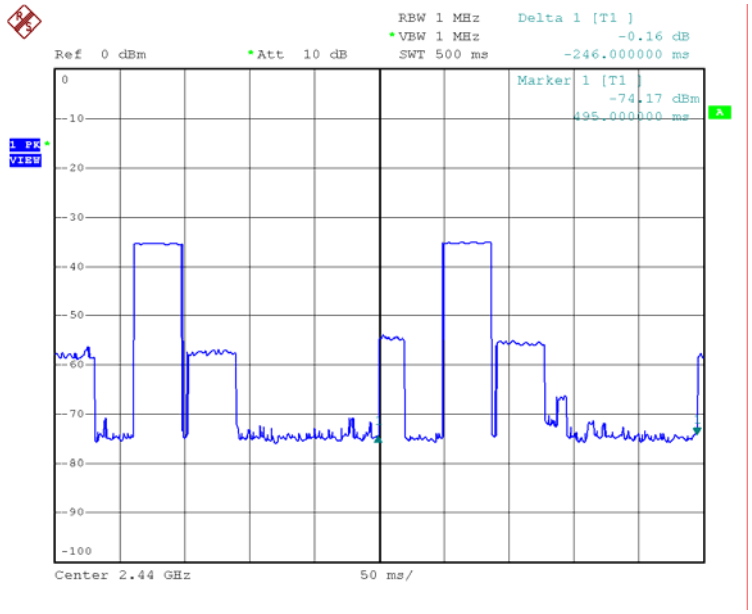
**Duty Cycle Correction Factor(dB)=20 * $Log_{10}$(Duty Cycle(%))**

| Pulse Train | Number of Pulse | T(ms) | Total Time(ms) |
|---|---|---|---|
| Pulse 1 | 1 | 22 | 22 |
| Pulse 2 | 1 | 40 | 40 |
| Pulse 3 | 1 | 40 | 40 |

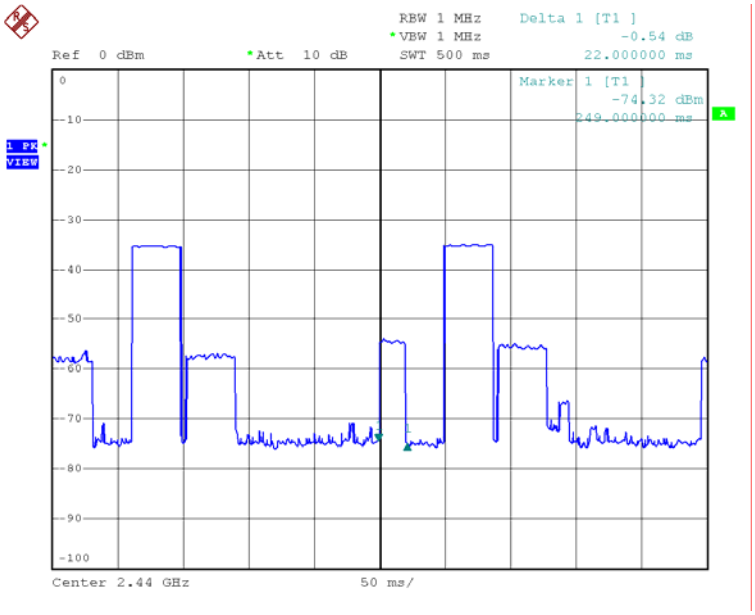
| | |
|---|---|
| Total On interval in a complete pulse train | 246msec |
| Length of a complete pulse train | 102msec |
| Duty Cycle(%) | 41.46% |
| Duty Cycle Correction Factor(dB) | -7.65 |

Refer to the duty cycle plot (as below), This device does meet the FCC requirement.

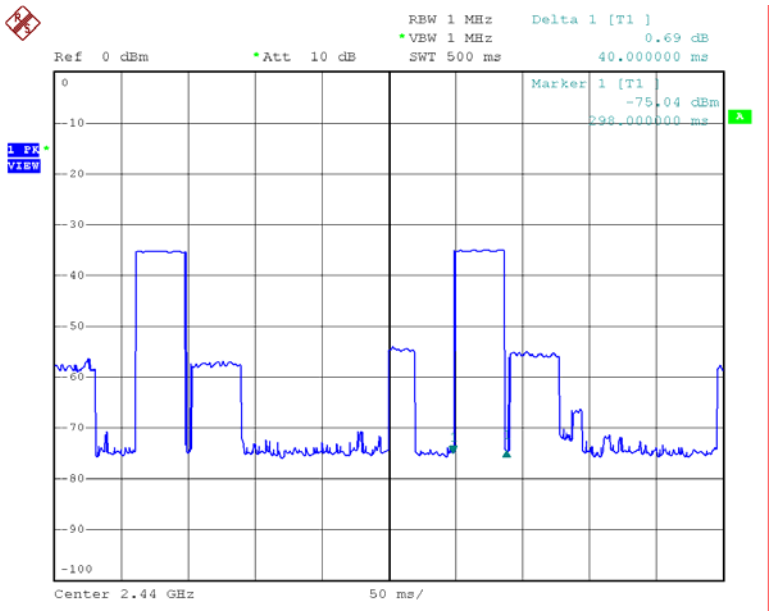
Length of a complete pulse train:



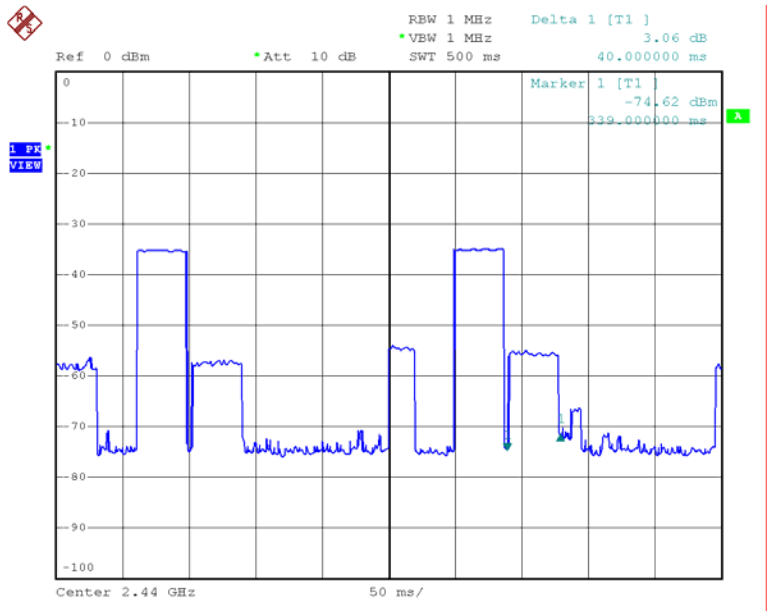

Pulse 1：



Pulse 2:




Pulse 3:



# 9 Antenna Requirement.

According to the FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product has a permanent antenna, fulfill the requirement of this section

# 10 20-dB Bandwidth

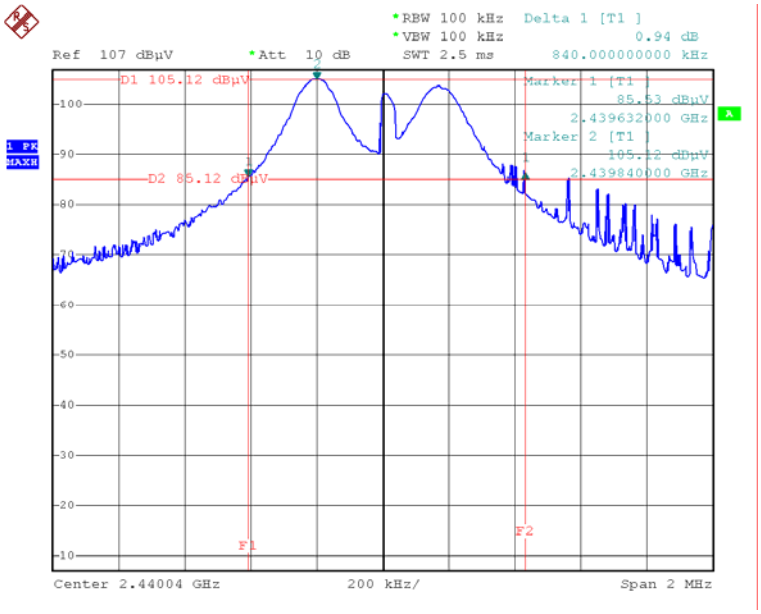
| | |
|---|---|
| Product Name: | Torque tool |
| Test Voltage: | DC 6.0V |
| Test Mode: | TX On |
| Temperature: | 25.5°C |
| Humidity: | 51%RH |

**Test Procedure**

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. The bandwidth of the fundamental frequency was measure by spectrum analyser with 100KHz RBW and 100KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

**Test Result**

Please refer the graph as below:



# 11 Band Edge

## 11.1 Test Equipment

Please refer to Section 5 this report.

## 11.2 Test Procedure

1. The EUT, peripherals were put on the turntable which table size is 1mX1.5m, table high 0.8m. All set up is according to FCC 15.249 and FCC 15.209.
2. The bandwidth of the fundamental frequency was measure by spectrum analyser with 1MHz RBW and 1MHz VBW.

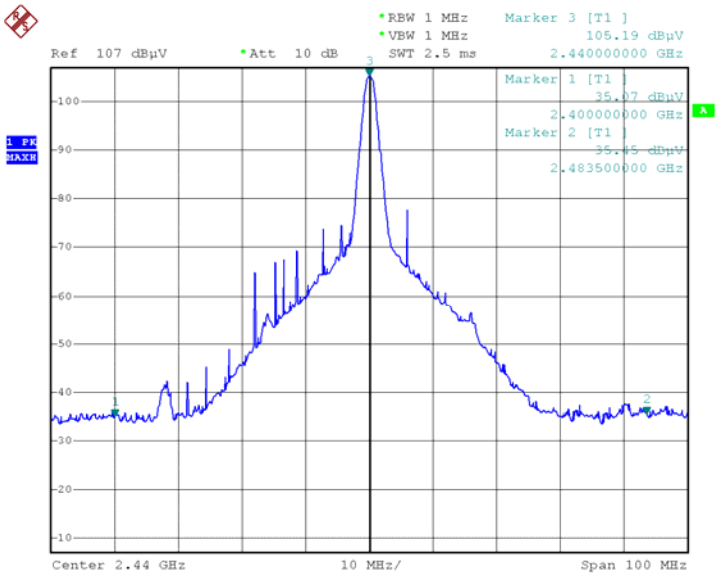
## 11.3 Band Edge

Requirements: FCC15.247, the emission power at the START and STOP frequencies shall be at least 50dB below the level of the fundamental or to the general radiated emission limits in FCC15.209.

## 11.4 Band Edge Test Result

| | |
|---|---|
| Product Name: | Torque tool |
| Test Item: | Band Edge Test |
| Test Voltage: | DC 6.0V |
| Test Mode: | TX On |
| Temperature: | 25.5°C |
| Humidity: | 51%RH |

## 11.5 Band Edge Test Record

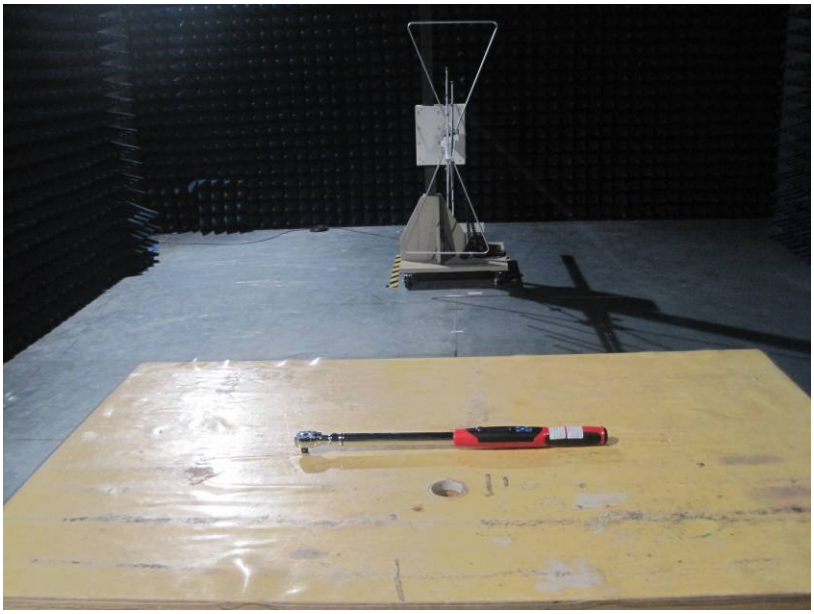



**Note:** (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in FCC 15.249 and FCC 15.209.

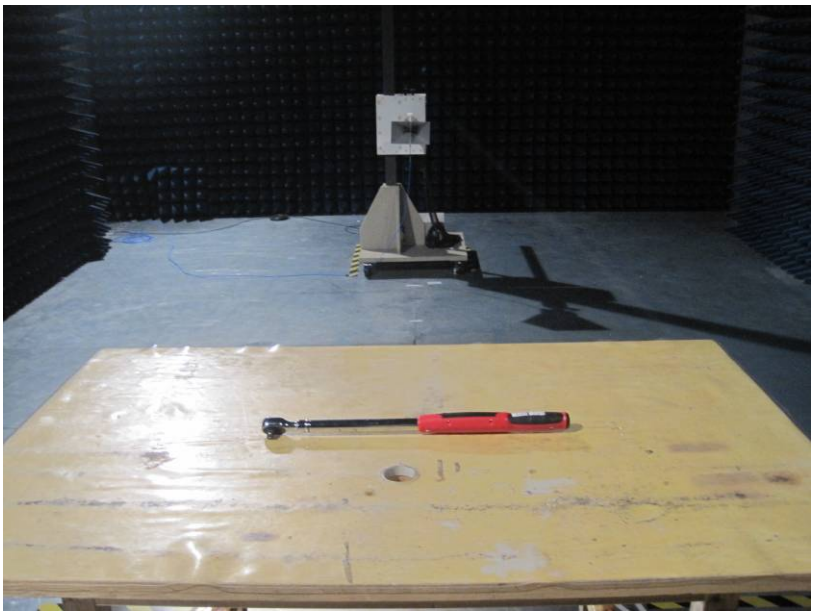
(2) This device does meet the FCC requirement.

# 12 Photographs of Testing

## 12.1 Radiation Emission Test View For 30MHz-1000MHz



## 12.2 Radiation Emission Test View For 1GHz-25GHz



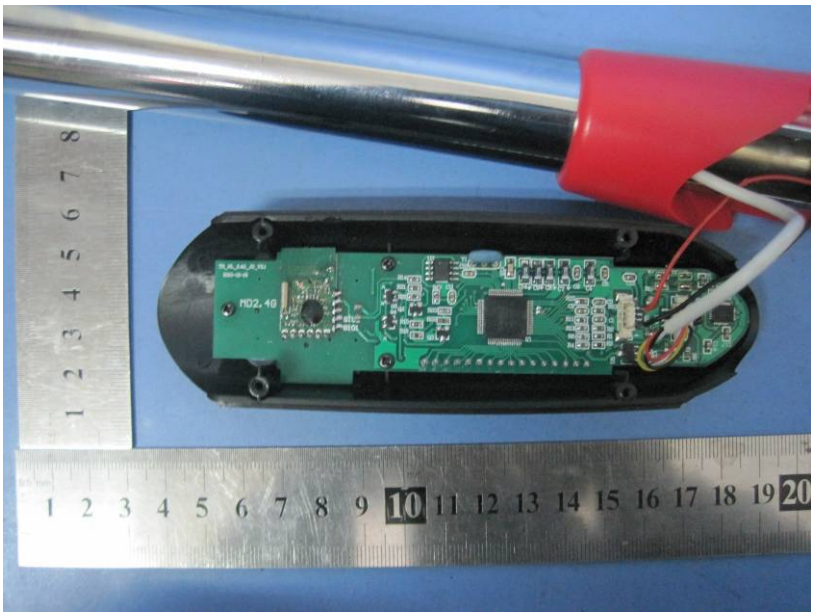
# 13 Photographs - Constructional Details

## 13.1 EUT - Front View

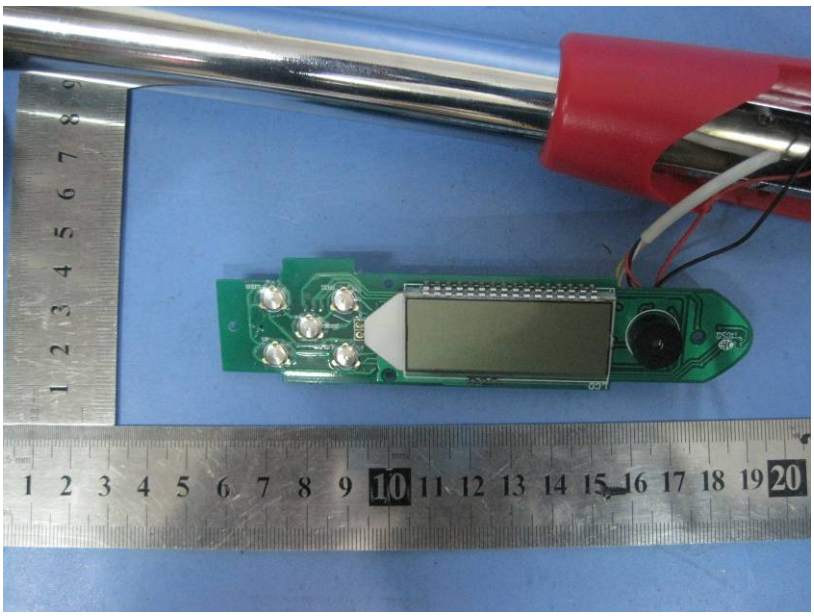
## 13.2 EUT - Front View（control panel）

## 13.3 EUT - Back View

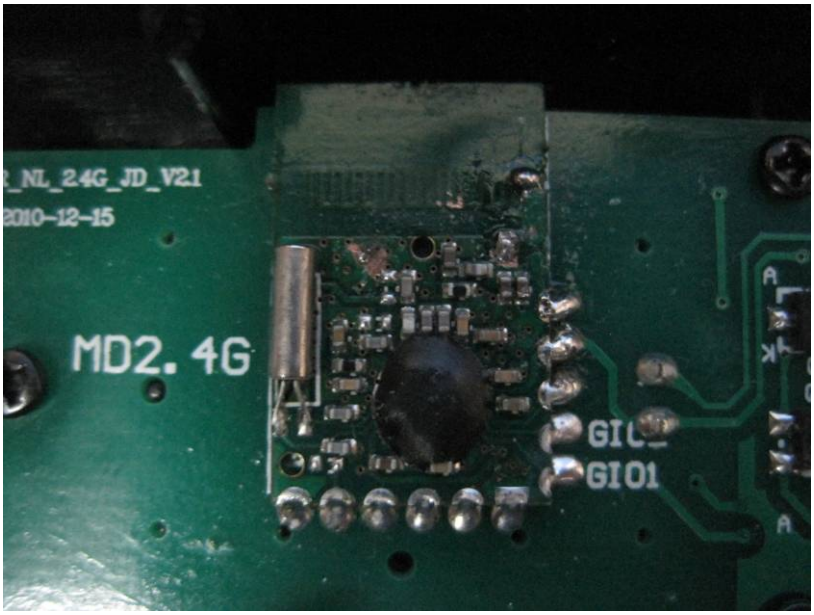
## 13.4 PCB1 - Front View



## 13.5 PCB1 - Back View




## 13.6 PCB2 – Modulation View



# 14 FCC Label

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT

EUT Bottom View/proposed FCC Mark Location