



Shenzhen CTL Electromagnetic Technology Co., Ltd.

Tel: +86-755-89486194 Fax: +86-755-26636041

MPE TEST REPORT

FCC Per 47 CFR 2.1093

Report Reference No.....: CTL1311111736-WM

FCC ID.....:

Compiled by

(position+printed name+signature)...: File administrators Jennifer NI

Jennifer NI

Name of the organization performing the tests

Test Engineer Jacky Chen

Jacky Chen

(position+printed name+signature)...:

Approved by

(position+printed name+signature)...: Manager Tracy Qi

Tracy Qi

Date of issue.....: Nov. 21, 2013

Representative Laboratory Name : Shenzhen CTL Electromagnetic Technology Co., Ltd.

Address.....: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

Test Firm : Bontek Compliance Testing Laboratory Ltd

Address.....: 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

Applicant's name.....: Shenzhen Tianzheng Hongye Technology Co. Ltd.

Address.....: Building C, Guancheng Science and Technology Park, Zhenxing Road, Carp River Industrial Zone, Gongming, Shenzhen City, Guangdong Province, China

Test specification:

Standard: FCC Per 47 CFR 2.1093

TRF Originator.....: Shenzhen CTL Electromagnetic Technology Co., Ltd.

Master TRF.....: Dated 2011-01

Shenzhen CTL Electromagnetic Technology Co., Ltd.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen CTL Electromagnetic Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen CTL Electromagnetic Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description: MID760RK

Trade Mark: 2ABEPTA2511-7

Model/Type reference.....: TA2511-7

Work frequency: 802.11b/g/n: 2412~2462MHz, 802.11n(40MHz): 2422~2452

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: -0.5 dBi

Antenna type: Internal

Power Supply.....: DC3.7V from battery

Result.....: Positive

Test Report

Test Report No. :	CTL1311111736-WM	Nov. 21, 2013
		Date of issue

Equipment under Test : MID760RK

Model /Type : TA2511-7

Listed Models : /

Applicant : **Shenzhen Tianzheng Hongye Technology Co.Ltd.**

Address : Building C, Guancheng Science and Technology Park,
Zhenxing Road, Carp River Industrial Zone, Gongming,
Shenzhen City, Guangdong Province, China

Manufacturer : **Shenzhen Tianzheng Hongye Technology Co.Ltd.**

Address : Building C, Guancheng Science and Technology Park,
Zhenxing Road, Carp River Industrial Zone, Gongming,
Shenzhen City, Guangdong Province, China

Test Result according to the
standards on page 4:

Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Content

1.	SUMMARY	4
1.1.	EUT configuration	4
1.2.	Equipment Under Test	4
1.3.	Description of the test mode	4
1.4.	NOTE	4
2.	TEST ENVIRONMENT	5
2.1.	Address of the test laboratory	5
2.2.	Environmental conditions	5
2.3.	Statement of the measurement uncertainty	5
3.	METHOD OF MEASUREMENT	6
4.	TEST RESULTS	7



2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Bontek Compliance Testing Laboratory Ltd
1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements

2.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

2.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Bontek Compliance Testing Laboratory Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Bontek laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	1~12.75GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.22dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Method of measurement

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1093 RF exposure is calculated.

3.2. Limit

According to KDB 447498 D01 v05 General RF Exposure Guidance, the SAR Test Exclusion Power Thresholds is 10mW.



4. TEST RESULTS

This is a portable device. Per KDB 447498 D01 v05, the device used distance is 5mm from body.

For 802.11 b

Test Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Nemeric)	E.I.R.P (mW)	Limit (mW)	Test Results
2412	9.54	8.99	-0.5	0.8913	8.02	10	Pass
2437	9.01	7.96	-0.5	0.8913	7.10	10	Pass
2462	9.34	8.59	-0.5	0.8913	7.66	10	Pass

For 802.11 g

Test Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Nemeric)	E.I.R.P (mW)	Limit (mW)	Test Results
2412	9.16	8.24	-0.5	0.8913	7.35	10	Pass
2437	8.95	7.85	-0.5	0.8913	7.00	10	Pass
2462	9.44	8.79	-0.5	0.8913	7.83	10	Pass

For 802.11 n (20MHz)

Test Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Nemeric)	E.I.R.P (mW)	Limit (mW)	Test Results
2412	9.07	8.07	-0.5	0.8913	7.19	10	Pass
2437	9.14	8.20	-0.5	0.8913	7.31	10	Pass
2462	9.08	8.09	-0.5	0.8913	7.21	10	Pass

For 802.11 n (40MHz)

Test Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Nemeric)	E.I.R.P (mW)	Limit (mW)	Test Results
2422	8.36	6.85	-0.5	0.8913	6.11	10	Pass
2437	8.06	6.40	-0.5	0.8913	5.70	10	Pass
2452	8.09	6.44	-0.5	0.8913	5.74	10	Pass

4. Conclusion

The EUT works on the 2.4G ISM band, according to KDB 447498 D01 v05 General RF Exposure Guidance, the SAR Test Exclusion Power Thresholds is 10mW. The max power of this device is 8.02mW < 10mW, so the SAR evaluation is not required.

.....End of Report.....