




# RF EXPOSURE REPORT



Report No.: 14021149-FCC-H2-V1

Supersede Report No.: N/A

Applicant	Beneworld International (HK) Co., Limited		
Product Name	7inch Tablet PC		
Main Model	BW9		
Test Standard	FCC 2.1093		
Test Date	November 11 to November 12, 2014		
Issue Date	November 14, 2014		
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		
Equipment complied with the specification		<input checked="" type="checkbox"/>	
Equipment did not comply with the specification		<input type="checkbox"/>	
			
Deon Dai Test Engineer		Alex Liu Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only			

Issued by:  
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## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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## 1 Report Revision History

Report No.	Report Version	Description	Issue Date
14021149-FCC-H2-V1	NONE	Original	November 14, 2014

## 2 Customer information

Applicant Name	Beneworld International (HK) Co., Limited
Applicant Add	Unit 04, 7/F, Bright Way Tower, No. 33 Mong Kok Road, Kowloon, Hong Kong
Manufacturer	Shenzhen Beneworld Technology Co. Ltd.
Manufacturer Add	Building 3, Huangtian Industrial Park, Xixiang, Baoan District, Shenzhen, Guangdong, China

## 3 Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China
FCC Test Site No.	986914
IC Test Site No.	4842B-1
Test Software	Labview of SIEMIC version 1.0

## 4 Equipment under Test (EUT) Information

Description of EUT:	7inch Tablet PC
Main Model:	BW9
Serial Model:	BW7D9, BW7D19, BW7D29, BW7D61, BW7D62, BW7D66, BW7D68,BW7D69, BW7D70, BW7D71
Date EUT received:	November 03, 2014
Test Date(s):	November 11 to November 12, 2014
Antenna Gain:	Bluetooth/ WIFI&BLE: 1.56 dBi
Type of Modulation:	Bluetooth: GFSK& $\pi$ /4DQPSK&8DPSK BLE: GFSK
RF Operating Frequency (ies):	Bluetooth&BLE: 2402-2480 MHz(TX/RX)
Number of Channels:	Bluetooth: 79CH BLE: 40CH
Port:	USB Port, Earphone Port
Input Power:	Adapter: Model: XHY050200UUCH Input: AC 100-240V 50/60Hz 0.5A MAX Output: DC 5V 2.0A BATTERY: 3.7V 5200mAh
Trade Name :	N/A
FCC ID:	2AANC-BENEWORLD-BW9

Note: the difference between these models please refer to 6. DECLARATION OF SIMILARITY.

## 5 FCC §2.1093 - RF Exposure

### Standard Requirement:

According to §15.247 (i) and §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.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{GHz}}}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>16</sup> where

- $f_{\text{GHz}}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

### Test Result:

Type	Test mode	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)
Output power	BT: GFSK	Low	2402	4.39	4.5±1
		Mid	2441	5.01	
		High	2480	5.21	
	BLE	Low	2402	-3.39	-3.0±1
		Mid	2440	-3.00	
		High	2480	-2.94	

Two antennas are available for the EUT (GSM antenna, Bluetooth/WIFI/BLE antenna).

### BT Mode:

The maximum average output power(turn-up power) in low channel of Bluetooth is 5.5 dBm=3.55mW

The calculation results=  $3.55/5 \cdot \sqrt{2.402} = 1.10 < 3$

The maximum average output power(turn-up power) in middle channel of Bluetooth is 5.5 dBm=3.55mW

The calculation results=  $3.55/5 \cdot \sqrt{2.441} = 1.11 < 3$

The maximum average output power(turn-up power) in high channel of Bluetooth is 5.5 dBm=3.55 mW

The calculation results=  $3.55/5 \cdot \sqrt{2.480} = 1.12 < 3$

### BLE Mode:

The maximum average output power(turn-up power) in low channel of Ble is -2 dBm=0.63 mW

The calculation results=  $0.63/5 \cdot \sqrt{2.402} = 0.20 < 3$

The maximum average output power(turn-up power) in middle channel of Ble is -2dBm=0.63mW

The calculation results=  $0.63/5 \cdot \sqrt{2.441} = 0.20 < 3$

The maximum average output power(turn-up power) in high channel of Ble is -2 dBm=0.63 mW

The calculation results=  $0.63/5 \cdot \sqrt{2.480} = 0.20 < 3$

According to KDB 447498, no stand-alone required for Bluetooth antenna, and no simultaneous SAR measurement is required , please refer to SAR report.

Test Result: Pass

## 6 DECLARATION OF SIMILARITY

**Beneworld International(HK) Co., Limited**

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**TEL:** +852-69172443/ 30772819 **FAX:** +852-30772819

### **Statement**

To whom it may concern

Date: November 18, 2014

We hereby state that the 7inch Tablet PC of our model number BW9 and serial numbers BW7D9, BW7D19, BW7D29, BW7D61, BW7D62, BW7D66, BW7D68, BW7D69, BW7D70, BW7D71 have the same constructions, circuit diagram and PCB layout. Only model name are different.

Sincerely,

*Stephen Tang*