

MEERA INTERNATIONAL LIMITED

7inch Tablet PC

Main Model: MT-715 DUO
Serial Model: NTB-715 DUO, MT-706

November 14, 2013
Report No.: 13020964-FCC-H



(This report supersedes none)

Modifications made to the product : None

This Test Report is Issued Under the Authority of:

Amos Xia Compliance Engineer	Alex Liu Technical Manager	

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Test result presented in this test report is applicable to the representative sample only.

SIEMIC, INC. RF Exposure Evaluation Report
FCC Part 15.247: 2013, Part 2.1093

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Laboratory 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 through out 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 , Telecom
Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless ,Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety



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1 EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the MEERA INTERNATIONAL LIMITED, 7inch Tablet PC and model: MT-715 DUO against the current Stipulated Standards. The 7inch Tablet PC has demonstrated compliance with the FCC Part 15.247: 2013, Part 2.1093.

EUT Information

EUT Description	:	7inch Tablet PC
Main Model	:	MT-715 DUO
Serial Model	:	NTB-715 DUO, MT-706
Antenna Gain	:	Bluetooth:2 dBi
Input Power	:	Battery: Spec: 3.7V 2000mAh Adapter: Model: BY-M08-0500200U Input: AC 100-240V 50/60Hz 0.5A Output: DC 5V 2A
Classification Per Stipulated Test Standard	:	FCC Part 15.247: 2013, Part 2.1093

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2 TECHNICAL DETAILS

Purpose	Compliance testing of 7inch Tablet PC with stipulated standard
Applicant / Client	MEERA INTERNATIONAL LIMITED 301 Kam On Building, 176A Queen's Road Central, Central, Hong Kong, China
Manufacturer	Shenzhen Beneworld Technology Co. Ltd. Building 3, Huangtian Industrial Park, Xixiang, Baoan District, Shenzhen, Guangdong, China
Laboratory performing the tests	SIEMIC (Nanjing-China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: China@siemic.com.cn
Test report reference number	13020964-FCC-H
Date EUT received	October 24, 2013
Standard applied	FCC Part 15.247: 2013, Part 2.1093
Dates of test (from – to)	November 06 to November 12, 2013
No of Units :	#1
Equipment Category :	Spread Spectrum System/Device
Trade Name :	N/A
RF Operating Frequency (ies)	802.11b/g/n: 2412-2462 MHz
Number of Channels	802.11b/g/n: 11CH
Modulation	802.11b/g/n: CCK/OFDM
FCC ID	2AASXMTNTBDUO



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3 MODIFICATION

NONE

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4 TEST SUMMARY

The product was tested in accordance with the following specifications.
All testing has been performed according to below product classification:

Test Results Summary

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance

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5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 §15.247 (i) and §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* ≤ 50 mm are determined by:

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

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 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.

802.11b mode:

One antenna is available for the EUT (WIFI antenna).The minimum separation distances is 5 mm.

The maximum average output power(turn-up power) in low channel of WIFI is 8.75dBm=7.50 mW

The calculation results= $7.50/5 * \sqrt{2.412} = 2.33 < 3$

The maximum average output power(turn-up power) in middle channel of WIFI is 8.54 dBm=7.14 mW

The calculation results= $7.14/5 * \sqrt{2.437} = 2.23 < 3$

The maximum average output power(turn-up power) in high channel of WIFI is 8.83 dBm=7.64 mW

The calculation results= $7.64/5 * \sqrt{2.462} = 2.40 < 3$

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required .

802.11g mode:

One antenna is available for the EUT (WIFI antenna).The minimum separation distances is 5 mm.

The maximum average output power(turn-up power) in low channel of WIFI is 7.77 dBm=5.98 mW

The calculation results= $5.98/5 * \sqrt{2.412} = 1.86 < 3$

The maximum average output power(turn-up power) in middle channel of WIFI is 7.91dBm=6.18 mW

The calculation results= $6.18/5 * \sqrt{2.437} = 1.93 < 3$

The maximum average output power(turn-up power) in high channel of WIFI is 8.05 dBm=6.38 mW

The calculation results= $6.38/5 * \sqrt{2.462} = 2.00 < 3$

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required .

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802.11n mode:

One antenna is available for the EUT (WIFI antenna). The minimum separation distances is 5 mm.

The maximum average output power(turn-up power) in low channel of WIFI is 7.86 dBm=6.11 mW

The calculation results=6.11/5* √ 2.412=1.90<3

The maximum average output power(turn-up power) in middle channel of WIFI is 7.82 dBm=6.05 mW

The calculation results=6.05/5* √ 2.437=1.89<3

The maximum average output power(turn-up power) in high channel of WIFI is 7.92 dBm=6.19 mW

The calculation results= 6.19/5* √ 2.462=1.94<3

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required .

Test Result: Pass