



# RF EXPOSURE REPORT

**REPORT NO.:** SA141002E03

**MODEL NO.:** TC7110.02, TC7110xxxxxx (x = 0~9,  
A-Z, a-z, "-", ".", or blank for marketing)

**FCC ID:** H8N-TC711002

**RECEIVED:** Oct. 02, 2014

**TESTED:** Nov. 20, 2014

**ISSUED:** Nov. 28, 2014

**APPLICANT:** ASKEY COMPUTER CORP.

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R.O.C.

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

**LAB ADDRESS:** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,  
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R.O.C.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA141002E03	Original release	Nov. 28, 2014



A D T

## 1. CERTIFICATION

**PRODUCT:** Cable Modem

**BRAND NAME:** TECHNICOLOR

**MODEL NO.:** TC7110.02, TC7110xxxxxx (x = 0~9, A-Z, a-z, "-", ".", or blank for marketing)

**TEST SAMPLE:** ENGINEERING SAMPLE

**APPLICANT:** ASKEY COMPUTER CORP.

**TESTED:** Nov. 20, 2014

**STANDARDS:** FCC Part 2 (Section 2.1091)  
KDB 447498 D03  
IEEE C95.1

The above equipment (Model: TC7110.02) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared By :**  , **Date:** Nov. 28, 2014  
( Lori Chung, Specialist )

**Approved By :**  , **Date:** Nov. 28, 2014  
( May Chen, Manager )

## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

r = distance between observation point and center of the radiator in cm

### 4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

### 5. ANTENNA GAIN

The antenna provided to the EUT, please refer to the following table:

Brand	Model	Gain (dBi)	Antenna Type	Connector Type	Frequency range (MHz to MHz)	Cable Loss (dB)	Cable Length (mm)
WANSHIH	1415-01G2000	3.95	PCB	MHF	2400-2500	NA	80

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

### 802.11b

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	58.614	3.95	20	0.02896	1

### 802.11g

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	331.894	3.95	20	0.16396	1

### 802.11n (HT20)

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	331.894	3.95	20	0.16396	1

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