

RF EXPOSURE REPORT

REPORT NO.: SA150203E03

MODEL NO.: RU00-M03, RU00-M03-XXXX
(X= 0~9 , A~Z , Configuration Code)

FCC ID: MAD-RU00-M03

RECEIVED: Feb. 03, 2015

TESTED: Apr. 14, 2015

ISSUED: Apr. 24, 2015

APPLICANT: Microelectronics Technology Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services
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TEST LOCATION (1): No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA150203E03	Original release	Apr. 24, 2015



A D T

1. CERTIFICATION

PRODUCT: RFID HP-SIP Module

BRAND NAME: MTI

MODEL NO.: RU00-M03, RU00-M03-XXXX
(X= 0~9 , A~Z , Configuration Code)

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: Microelectronics Technology Inc.

TESTED DATE: Apr. 14, 2015

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

The above equipment (Model: RU00-M03) 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:** Apr. 24, 2015
(Elsie Hsu, Specialist)

APPROVED BY :  , **DATE:** Apr. 24, 2015
(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 ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

*Plane-wave equivalent power density

3. MPE CALCULATION FORMULA

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 21cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

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

Antenna Type	Gain(dBi) (Include cable loss)	Antenna Connector	Cable Loss(dB)	Frequency range (MHz to MHz)
Patch	5.25	SMA Female	0.75	902~928

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY (MHz)	CONDUCTED POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
902.75	968.278	5.25	21	0.58526	0.601

Note: Limit of Power Density= $F/1500$

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