

RF Exposure Report

Report No.: SA170809E06

FCC ID: MAD-RU00-M06

Test Model: RU00-M06

Series Model: RU00-M06-XXXX (X= 0~9 , A~Z , Configuration Code)

Received Date: Aug. 09, 2017

Test Date: Aug. 31, 2017

Issued Date: Sep. 21, 2017

Applicant: Microelectronics Technology Inc.

Address: 1, Innovation Road II, Hsinchu Science-based Industrial Park, Hsinchu,
Taiwan, R.O.C.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

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Release Control Record

Issue No.	Description	Date Issued
SA170809E06	Original release.	Sep. 21, 2017

1 Certificate of Conformity

Product: RFID PCA MODULE PCIE M.2 UHF US/JP BAND

Brand: MTI

Test Model: RU00-M06

Series Model: RU00-M06-XXXX (X= 0~9 , A~Z , Configuration Code)

Sample Status: ENGINEERING SAMPLE

Applicant: Microelectronics Technology Inc.

Test Date: Aug. 31, 2017

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment 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 :

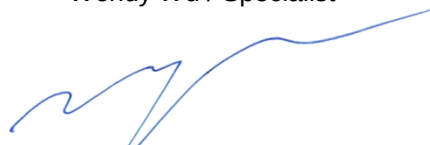


Date:

Sep. 21, 2017

Wendy Wu / Specialist

Approved by :



Date:

Sep. 21, 2017

May Chen / Manager

2 RF Exposure

2.1 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				
0.3-1.34	614	1.63	(100)*	30
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

2.2 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

2.3 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**.

2.4 Antenna Gain

Antenna Net Gain(dBi)	Antenna Type	Connector type	Frequency range	Cable Loss(dB)
5.25	Patch	SMA Female	902MHz~928MHz	0.75

2.1 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
902.75 ~ 927.25	554.626	5.25	20	0.36960	0.61816

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

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