

RF Exposure Report

Report No.: SA180109C09

FCC ID: 2AMRF-FCM9000S

Test Model: FCM9000SC-100 (chip antenna used),
FCM9000SE-100 (external antenna used thru u.FL connector)

Received Date: Jan. 09, 2018

Date of Evaluation: Mar. 01, 2018

Issued Date: Mar. 02, 2018

Applicant: FCI Inc.

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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SA180109C09	Original Release	Mar. 02, 2018

1 Certificate of Conformity

Product: FC9000 Small Module

Brand: FCI

Test Model: FCM9000SC-100 (chip antenna used),
FCM9000SE-100 (external antenna used thru u.FL connector)


Sample Status: Production Unit


Applicant: FCI Inc.

Date of Evaluation: Mar. 01, 2018

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:** Mar. 02, 2018
Gina Liu / Specialist

Approved by :  , **Date:** Mar. 02, 2018
Dylan Chiou / Project Engineer

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

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = 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

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

2.5 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
FCM9000SC-100					
2412-2462	22.29	1.99	20	0.053	1
FCM9000SE-100					
2412-2462	22.28	2.50	20	0.060	1

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